



**Manav Rachna International Institute  
of Research and Studies**

(Deemed to be University under section 3 of the UGC Act, 1956)

**ANNUAL REPORT  
2021-22**

## “Manav Rachna”

Manav Rachna carries forward the mantle of excellence and professionalism with the philosophy of Manav Rachna.



## “Vidyantariksha”

This is a conjunction of the words 'vidya' and 'antariksha'. “Vidya” means knowledge, information, the basis of creativity and innovation. It is the foundation of technology and envisages the future. “Antariksha” means 'the sky' , the space which we belong to or exist. It can be split into 'antar' and 'iksha' which means inner vision. Hence the combination, the core promise of Manav Rachna becomes “the reality of inner vision or root of knowledge”.

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## **Dr. Prashant Bhalla**

**Chancellor, MREI**

### **From the President's Desk**

More than two decades ago, MREI committed itself to respond to the imperative need for a robust professional education. Our ambition is to make sure the youth of today get the best education and best opportunities to meet both their personal and vocational goals. We established ourselves as a pioneer in the crusade, a path-breaking paradigm which we have continued to drive forward.

MREI is a community where the best and brightest students learn from erudite faculty members and strategic partnerships. Our innovative curriculums and research opportunities are designed to solve today's most pressing problems. Through our undergraduate, graduate, postgraduate and doctoral programmes, we ensure our students receive a multidisciplinary and well-rounded education that prepares them to be the next generation of leaders.

We are aware of the needs of our country to make it a knowledge-based superpower in the next decade or two. With this in view, we have stepped in to cater to the futuristic academic ecosystem for the student community. Our endeavor is to create opportunities in various fields by subsuming the latest specialties of learning in our system, which would cater to the critical needs of the industry and economy. We foresee a close interaction amongst the universities, industries, business houses in modeling the content and skills. This will make education more and more vocational, skill based and relevant.

The situations across the globe in recent times have led educational institutions to overhaul their entire system to avoid any academic loss to the students. At Manav Rachna, we are highly concerned with the physical & mental well-being of all our students. Due to the unprecedented challenges created by the spread of Coronavirus, learning at Manav Rachna transitioned to a virtual platform to ensure that academics of our students don't lag behind. Our faculty members constantly make focused efforts to ensure that virtual learning happens seamlessly.

We are a University which lays paramount importance to research. We have endeavored to design courses which are in sync with the ever-growing demands of the industry and enable scholars to explore the frontiers of fields where new knowledge and understanding are being created and ignite a passion for being in the vanguard of discovery. Being at the forefront of discovery and taking part in creation of new knowledge is an immensely rewarding and life-affirming experience.

I welcome you to explore the never-ceasing vistas of amalgamated knowledge, walk the untrodden path of seizing opportunities hitherto never thought of and be the beacon for the generations to come.

**Dr Prashant Bhalla**  
**(Chancellor)**

## **Dr. Amit Bhalla**

Vice President, MREI



### **From the Vice-President's Desk**

It gives me immense pleasure to present the Annual Report for the year 2021-22 with great deal of satisfaction and fulfillment. During the period under report, the University made significant progress on all fronts. Ours is a very young but very vibrant University. Manav Rachna is distinguished from others by its continued commitment to excellence and has been recognized as an institution that is involved in a high quality teaching and research in diverse fields. The University has been accredited by NAAC with grade 'A' which places the University among the top ranked Universities in the country. The University has also received the NBA accreditation for its four engineering undergraduate programmes and MBA programme. Committed to academic reforms, the University is making proactive efforts to develop and implement innovative curricular frameworks and the Choice Based Credit System (CBCS) has been implemented in most of our academic programmes. The research programmes are equally innovative and qualitative. Conscious of its responsibility to create a culture of excellence, the University has been proactively promoting merit, objectivity and transparency in all its activities/processes that enthuses confidence amongst its stakeholders.

We have witnessed a greater focus on building research culture augmented by funding from various national and international funding agencies. While teaching is the primary focus and mainstay of the University, a conscious effort has been made to promote this culture of research, publication, innovation and participation in seminars, symposia, conferences etc by creating a conducive and enabling environment. It gives me immense pride to bring on record that the majority of the faculty members presented papers, delivered keynote addresses, chaired sessions, delivered lectures and talks, attended conferences and workshops and published papers in journals, many of repute.

Faculty - student team has led to another feather in the cap by establishing Start-up culture in the campus wherein several such initiatives are being incubated and few are commercialized. Our University is also committed to make the students' educational experience multifaceted and holistic. This commitment is very evident with world class sports facilities, holding sports meets, and encouraging and facilitating student participation in national and international level competitions. -

Always aim high and dream deep! All our dreams come true if we have the courage to pursue them. Here at MANAV RACHNA, it has been possible to enjoin academic vibrancy with moral values and social commitment and that is what we firmly believe in.

**Dr Amit Bhalla**  
Vice President



## **Prof. (Dr.) Sanjay Srivastava**

Vice Chancellor, MRIIRS

### **From the Vice-Chancellor's Desk**

It is my honor and privilege to present the Annual Progress Report of "Manav Rachna International Institute of Research & Studies" for the year 2021-22, before the Board of Management. I humbly acknowledge with great satisfaction and fulfillment, the contribution of all staff and faculty members of the university, who have shown an unparalleled devotion to their work, has resulted in the university growing considerably in scale and scope during the period under report.

MRIIRS is a multi disciplinary, research focused and student centric university working on a mission to develop and educate the path-shapers of tomorrow, who will go on to shoulder the challenges of globally responsible and ethical leadership. Above all else, it is the holistic development of our students into good human beings and responsible citizens of the nation that takes precedence. Such a vision requires altering education in a manner that grants a degree of freedom to the student – delivers a feeling that she/ he is the architect of the future. To catalyze this, the University is making proactive efforts to develop and implement an innovative curricular framework and the Choice Based Credit System (CBCS) has been implemented in our academic programmes.

After a remarkable beginning and a phenomenal growth in the past few years, the University can now showcase a truly multi disciplinary character, and in this setting, the academic programs have started flourishing on progressive inter disciplinarily and research-led learning. Its unique approach has the potential to positively influence the higher education landscape of our country in the next couple of decades. While teaching receives the primary focus, a conscious effort has been made to promote culture of research, publication, innovation and participation in seminars, symposia, conferences etc. by creating a conducive and enabling environment.

MRIIRS have always shown unparalleled commitment and competence to academics. It is a testimony to the commitment of all faculty and staff members to the profession and their spirit to ensure all the facets of the higher education universe are working like a well oiled machine.

MRIIRS is fortunate to have on board several faculty members who come from the best Universities of India and across the globe. A majority of the faculty members have presented papers, delivered keynote addresses, chaired sessions, delivered lectures and talks, attended conferences and workshops and published papers in journals of repute. Our Founder Visionary, forever Hon'ble Dr. O.P. Bhalla, imagined Manav Rachna International Institute of Research & Studies as an investment in India's future – a contribution to the financial and human capital in the process of nation building. I must admit that it is our collective effort that is leading us in that direction.

I extend my heartiest gratitude to the students, faculty members, administrative staff, the trustees, and our management for setting MRIIRS on an accelerated path towards all round excellence. Here's hoping that we together march towards a brighter horizon.

**Prof. (Dr.) Sanjay Srivastava**  
Vice Chancellor



## **DEAN(S) OF FACULTIES**

### **FACULTY OF ENGINEERING & TECHNOLOGY**

Prof. (Dr.) Pardeep Kumar

### **FACULTY OF ALLIED SCIENCES**

Prof. (Dr.) Moattar Raza Rizvi

### **FACULTY OF MANAGEMENT STUDIES**

Prof. (Dr.) Nand Lal Dhameja upto 19.01.2022

Prof. (Dr.) Rakesh Kumar Anand w.e.f 20.01.2022

### **FACULTY OF COMPUTER APPLICATIONS**

Prof. (Dr.) Pardeep Kumar upto 14.11.2021

Prof. (Dr.) Usha Batra w.e.f. 15.11.2021

### **FACULTY OF MEDIA STUDIES & HUMANITIES**

Prof. (Dr.) Maithili Ganjoo

### **FACULTY OF ARCHITECTURE & DESIGN**

w.e

Prof. (Dr.) Pardeep Kumar

### **FACULTY OF HOTEL MANAGEMENT**

Prof. (Dr.) Rakesh Kumar Anand w.e.f 20.01.2022

### **FACULTY OF COMMERCE & BUSINESS STUDIES**

Prof. (Dr.) Monika Goel

### **FACULTY OF BEHAVIOURAL & SOCIAL SCIENCE**

Prof. (Dr.) Chavi Bhargava Sharma upto 13.10.2021

Prof. (Dr.) Naresh Grover w.e.f 28.10.2021

### **FACULTY OF DENTAL SCIENCES**

Dr. Arundeeep Singh

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## CHAPTER-1

### UNIVERSITY AT A GLANCE

With a mission to become a Centre of Excellence for Higher Education where aspiring students can be transformed into skilled and well-rounded professionals, Career Institute of Technology & Management (CITM) affiliated to Maharshi Dayanand University, a State University of Haryana was established in the year 1997. The College made rapid strides and was soon considered as a most preferred destination for students seeking admission to engineering and management programmes in the State of Haryana. It was conferred a status of Deemed University under Section 3 of UGC Act, 1956 by MHRD, Govt. on the recommendations of the UGC, AICTE and Government of Haryana in the year 2008 in the name and style of Manav Rachna International University (MRIU). Vide MHRD Notification No. F.9-3/2007.U3 (A) dt. 11/01/2018 the name of Manav Rachna International University, Faridabad (Haryana) has been changed to Manav Rachna International Institute of Research and Studies (Deemed to be University). Ministry of Human Resource Development, Govt. of India vide Notification No. F.9-3/2007/U3 (A) Vol.2 dated 08-06-2018 further extended / regularized the deemed to be University status to Manav Rachna International Institute of Research and Studies, Faridabad, Haryana from 21.12.2013 onwards.

In pursuance to the Notification No. F-10/2016-U3 (A) dated May 13, 2019 issued by Ministry of Human Resources Development (MHRD), Department of Higher Education, ICR Division, Govt. of India, New Delhi vide which Manav Rachna Dental College (MRDC) has been included under the ambit of MRIIRS as a constituent Institution. MRIIRS has registered an all-round growth in academics, research and development, ISR, student support and progression, leadership and governance, environmental consciousness besides achievements in many other exemplary processes and procedures. The University caters all quality processes very ingeniously and as a result it has been accredited with 'A' Grade by National Assessment and Accreditation Council (NAAC) in October 2015 for 5 years from 16th November 2015 and now is in a process of 2nd Cycle of NAAC. The four UG engineering programmes namely B. Tech in Computer Science and Engineering, Electronics & Communication Engineering, Mechanical Engineering and Biotechnology and MBA programme have been accredited by the National Board of Accreditation (NBA) in the year 2022 under Tier I. It has also been awarded the prestigious QS Stars rating, scoring five stars rating in six categories i.e. Teaching, Employability, Academic Development, Facilities, Social-responsibility and inclusiveness and with 4 stars in Programme strength of Computer Science and Engineering Programme and rated MRIIRS with overall 4 Star rating in the year 2020. The UGC vide letter No. F.No. 22-1/2019(CPP-1/DU) dated 10th June 2020 has granted 12B Status to MRIIRS.

MRIIRS is offering UG, PG and PhD programmes in the broad areas of Engineering, Management, Physiotherapy, Foods & Nutrition, Dental, Media, Architecture, Business studies, Social Sciences, Computer Applications and other consanguine areas. In Academic Year 2021-22, 54 programmes were offered under 10 teaching Faculties in the University. MRIIRS has forged knowledge partnerships with leading organizations like Electric One, Microsoft, IBM, Intel, Infineon, Mitsubishi, CISCO, UI Path, Honda Motors, Bombay Stock Exchange and others to add value to our programmes. Industry experts and academicians along with other stakeholders are requisitioned to provide inputs to identify the programme education objectives and design curriculum. An exhaustive and meticulous process is adopted to prepare the academic curriculum of different courses- strictly as per the guidelines of the UGC / AICTE / and other Regulatory Bodies. The continuous inputs from the industry, prospective employers and alumni have also given due considerations.

Knowledge and skills to the students are disseminated through faculty members accumulated from top-notch institutions in India, well-stocked state-of-the-art Library with a rich digital resource, well equipped labs and overall tranquil environment in the campus which makes learning a joyful experience. A well-entrenched Internal Quality Assurance Cell (IQAC) has led to many quality-enhancing initiatives in the University. We believe that teaching-learning and evaluation form the bedrock of any educational programme. To lend cutting edge to our pedagogical processes, interventions of ICT and contemporary educational technologies are part of our academic delivery. A large number of choice-based value-added courses are offered to the students with the purpose of expanding their frontiers of knowledge by these cross-domain movements. Our students and faculty have been engaged with a large number of MOOCs so as to enrich and broaden their knowledge-base. The emphasis is on imparting quality education along with fostering a spirit of inquisitiveness among the students to open up new vistas of knowledge. Great store is set by practical training in the laboratories, industry attachments and project works. From time to time a large number of conferences, seminars, colloquiums, and expert talks are organized to enable students to transcend far beyond the classroom teaching.

### **One District - One Champion award for the Best practices in Swachhta**

Manav Rachna International Institute of Research and Studies is awarded the 'One District One Champion' award for the Best practices in Swachhta. The award is being honored by the Mahatma Gandhi National Council for Rural Education, Department of Higher Education, Ministry of Education in the august presence of Sh. Yashpal, Deputy Commissioner Faridabad on July 26, 2021.

### **Rashtriya Khel Protsahan Puraskar 2021**

The prestigious Rashtriya Khel Protsahan Puraskar 2021 has been conferred upon MRIIRS for Identification and Nurturing of Budding and Young Talent by the honourable President of India. Dr. Prashant Bhalla, President, Manav Rachna Educational Institutions (MREI); and Dr. Amit Bhalla, Vice President, MREI received the honour.



## **Dronacharya Award 2021-Life Time in Cricket**

Very Proud Movement to Manav Rachna Sh. Sarkar Talwar, Director Sports, Manav Rachna Educational Institutions has been confirmed with the Life Time Dronacharya award 2021 by honourable President of India Sh. Ram Nath Kovind dated 13th November 2021.

Our faculty members at Manav Rachna strive to set the right precedents for their dear students and lay huge emphasis on enhancing themselves in addition to their routine classroom teaching.

- More than 900 FDP, MOOC certifications and Conference certifications have been acclaimed by the faculty members during the Annual Year 2021-22.
- Manav Rachna International Institute of Research & Studies was granted approval by AICTE to conduct FDPs under ATAL scheme with a grant of 93000 INR for each:
- Department of Civil Engineering: FDP on Contemporary Advances in Sustainable and Integrated Infrastructure.
- Department of Mechanical Engineering: FDP on Design Thinking for Manufacturing Excellence.
- Department of CSE: FDP on Industry 4.0: Digitization, Sensorization & Optimization.
- Department of EEE: FDP on Robotics and Artificial Intelligence.
- AICTE has also accorded the approval of 93000 INR to the Department of Business Studies to conduct FDP on Developing Case Studies.
- Faculty of Engineering and Technology: Proposal submitted by Dr. Leena G (Professor EEE) for MODROB-Modernization and Removal of Obsolescence in the Laboratories got approved successfully by AICTE for sanctioning a Grant of 20 Lacs.
- Faculty of Engineering and Technology: The Department of Science and Technology (DST) has granted a substantial funding of 70 Lacs to Dr. Arunangshu Mukherjee (Professor, Department of Civil Engineering) for the Research project titled Co-solving Water Logging and Ground Water Depletion Issue in parts of Faridabad Smart City using Underground Taming of flood water for Aquifer Storage and Recovery
- Faculty of Social And Behavioral Sciences: Dr. Anandajit Goswami, Dr. Amit Seth, and Dr. Anika Magan have been awarded a significant research grant of 10 Lacs by Indian Council of Social Science Research (ICSSR) to undertake a research project with the title "Socio-Demographic, Entrepreneurial, and Policy Implications."
- Faculty of Media Studies and Humanities: Indian Council of Social Science Research (ICSSR) has provided a research grant of 2.30 Lacs to Dr. Shivani Vashist (Professor, English) for Minor Research Project-An Exploratory Study of Ashapurna Devi and Suchitra Bhattacharya: Narratives of Resistance and Re-Assertion.
- As per the mandate of AICTE, faculty members enrolled themselves for FDP on Universal Human Values and successfully completed their training programmes.

Some of the noteworthy achievements of Students that kept the MRIIRS flag flying high this year:

- Master Anish Bhanwala MRIIRS Students of BBA, Won Gold Medal in 25 Mtr Rapid Fire Pistol Team event & Bronze medal in 25 Mtr. Rapid Fire Mixed Team Event from 27.09.21 to 10.10.21 in ISSF Junior Shooting World Cup 2021 at Limaperu

- MRIIRS Students Master Anish Bhanwala Won Gold Medal in Rapid Fire Individual Shooting events. Master Sanskar Havelia got 8th Position in (50 Mtr. 3 P) AIU Shooting Championship 2022.
- Three Students of MRIIRS, Master Anish Bhanwala (25 Mtr. Rapid Fire Pistol ), Sanskar Havelia (50 Mtr. 3 P), and Shapath Bhardwaj (Trap) selected for Khelo India University games held from 23rd Apr 2022 to 2nd May 2022. MRIIRS Students Master Anish Bhanwala won Silver Medal for 25mtr Rapid Fire Pistol Competition.
- Amity Mahajan won Silver medal in Kick Light Category & Bronze medal in Point Fight Category in 2nd Wako Indian Open International KickBoxing Tournament 2022.
- Project 'Li-Koff' by Biotechnology students won First Prize at Anveshan 2021-2022. Two students- Somya Sharma, Abhilansh Pandey, B.Tech Biotechnology participated in the National Student Research Convention "Anveshan" organized by the Association of Indian Universities (AIU) in association with the Academy of Maritime Education and Training (AMET) University in Chennai recently. 285 students from 45 universities of India participated in this convention.
- B.Sc-FST ,2nd Sem students won 1st prize Choco-Re-Capture competition organised by Institute of Home Economics Delhi University



## NIRF Ranking 2022:

The Union Education Minister Sh. Dharmendra Pradhan released the sixth edition of the **National Institute of Ranking Framework (NIRF) ranking 2022** through a LIVE webcast.

It is a matter of great pride that the Manav Rachna International Institute of Research and Studies (MRIIRS) has taken a leap in this year's rankings across Engineering and University categories. This is a very significant achievement considering over 6000 institutions participated in the ranking this year. Manav Rachna has secured top positions among Government, IITs, NITs, and Private Institutions of the country.

In Engineering, MRIIRS is ranked at No. 105 across India. MRIIRS has been ranked in the University category in the Rank Band 101-150.

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## **“Outstanding Contribution in Online Education and Pedagogy 2021” Award, awarded to MRIIRS**

'Outstanding Contribution in Online Education and Pedagogy 2021' Award has been awarded to Manav Rachna International Institute of Research and Studies during the New Normal Education Leadership Awards and Summit 2021. Sh. R.K. Arora, Registrar, MRIIRS received the award.

This award highlights the efforts put in to make the virtual Manav Rachna education arena a successful attempt.

Vice-Chancellor is a head of affairs of every academic, administrative and financial function of the University and powers are delegated to Deans and Heads of Departments for an efficacious governance and management. Meetings of the Board of Management, Academic Council, BoS, DRC, BoF, Finance Committee, Planning and Monitoring Board, IQAC, Grievances Redressal Committee are regularly held for long-term and short-term planning and a sustained growth of every process and procedure.

MRIIRS has always been in the forefront of rendering Institutional Social Responsibility for the welfare of society and commitments are discharged to the community with great alacrity. Regular participation in Institutional Social Responsibility (ISR) such as carrying out activities in the fields of Awareness and Prevention of Deadly Diseases, Swachha Bharat Abhiyaan, Oral Hygiene, Rehabilitation, Environment, Social Upliftment, Removal of illiteracy, Blood Donation, Awareness and Prevention of Child Labour, Anti Ragging and Social Harmony is customary with us.

Radio Manav Rachna 107.8 FM at MRIIRS campus is the first Community Radio station of Faridabad. This community Radio has been enabled to us by the Ministry of Information, Government of India. As a Community Radio station this strives to bring out the best programs for the community awareness, besides entertaining and educating the general public.

MRIIRS provides a whole slew of comfortable facilities like those of hostels, transportation, mess, medical attendance and so on to its students, faculty and staff alike.

We have a well-entrenched PhD programme in the University and all UGC guidelines 2016 on the subject are followed. Projects of our students are highly appreciated in different forums and have regularly won awards and recognition in various national and international competitions. The students and faculty members of MRIIRS are from almost all States and Union Territories. A sprawling campus on the outskirts of Delhi with well-equipped laboratories, classrooms equipped with smart devices, seminar halls, auditoriums, amphitheatres, campus-wide internet access along with liberal computer resources go a long way in providing a stimulating academic ambience. Dedicated Career Development Centre and Corporate Resource Centre provide well-designed training modules to enhance their soft-skills, communication-skills and their employability attributes through highly trained professionals. The University has an outstanding record of achievements of its students in sporting events across the country. Anti-ragging Committees, Grievances redressal Mechanism, scholarships for meritorious, needy students and girl students are available.

## 1.1 Vision, Mission & Objectives

### **Vision:**

Manav Rachna International Institute of Research & Studies (Deemed to be University) is dedicated and committed to train and equip its students with the upgraded knowledge and skills, the chosen fields in the backdrop of Indian ethos and values to enable the students to face any global challenge with a view to transforming them into insightful, honorable and responsible citizens of this great country; and imbibe a work culture of theoretical and applied research leading to creation and dissemination of knowledge.

### **Mission:**

To provide an environment in which teachers love to facilitate and students love to learn, consisting of infrastructure facilities at par with the best institutions in India and abroad. The aim is:

- To inculcate skills and impart knowledge to the ignited minds in the fields of science & technology and soft skills including leadership, team-building and communication.
- To create human beings with a golden heart, who work and dedicate themselves for the advancement of humanity.
- To undertake research and development activities in collaboration with the world of work leading to creation of new knowledge in the field(s) of Science, Commerce, Humanities, Engineering & Technology, Management, Health Sciences & Therapies, Sports, Multimedia, Applied & Performing Arts.

### **Quality:**

MRIIRS strives continuously to improve the quality of education, to nurture the talent of our students to enable them to embark upon a successful career. Our highly qualified team is dedicated to accomplish these objectives by imparting a proper blend of high conceptual and practical skills to the students. They are ably supported in their endeavour by excellent infrastructure, teaching methodology and commitment to Quality Management.

### **Main Objectives:**

- To steer our young students towards a gateway of exciting professional careers through State-of-the-Art training and progressive development continuum.
- To impart knowledge, professional and human skills as well as to strengthen the character of its students and teachers so as to enable them for national development and social transformation.
- To provide conducive ambience culminating in development of a research culture in which both the students and teachers are encouraged to engage in Research and Development activities.
- To foster and nurture talent to promote "out of box" thinking to strike at innovative and radical solutions
- To provide amenities and support for its students and teachers to assimilate the latest technological advances within a dynamic environment
- To encourage its students and teachers to develop co-scholastic skills, proficiency in sports, excellence in arts and culture, and other intellectual pursuits for holistic development.
- To provide a multitude of platforms through conferences, symposia, seminars of the national/international levels to expose its students and teachers to the contemporary and futuristic trends of research
- To encourage consultancy and extension to serve the society.
- To inculcate values of national pride, equality, inclusive growth, unity and justice.



### **Faculty of Allied Health Sciences (FAHS)**

1. Bachelor of Physiotherapy (BPT) – [(4½ yrs.) with 6 months compulsory internship]
2. Master of Physiotherapy (MPT) (2 yrs.)
3. B.Sc. Nutrition & Dietetics (3 yrs.)
4. B.Sc (Hons) Food Science & Technology (3 yrs.)
5. M.Sc. Nutrition & Dietetics (2 yrs.)

### **Faculty of Management Studies (FMS)**

1. Master of Business Administration (2 yrs.)

### **Faculty of Hotel Management**

1. B.Sc. – Hospitality and Hotel Administration (3 yrs.)

### **Faculty of Computer Applications (FCA)**

1. Bachelor in Computer Applications (BCA) - (3 yrs.)
2. B.Sc. Information Technology - (3 yrs.)
3. Master of Computer Application (MCA) - (3 yrs.)

### **Faculty of Media Studies & Humanities (FMeh)**

1. Bachelor of Arts – (Journalism and Mass Communication) - (3 yrs.)
2. Master of Arts – (Journalism and Mass Communication) - (2 yrs.)
3. Bachelor of Arts (Hons) – English - (3 yrs.)
4. Master of Arts English- (2yrs.)

### **Faculty of Architecture & Design (FAD)**

1. Bachelor of Architecture (B. Arch.) (5 yrs.)
2. B.Sc. Interior Design (3 yrs.)
3. Bachelor of Design (B. Design) - (4 yrs.)

### **Faculty of Commerce & Business Studies (FCBS)**

1. Bachelor of Business Administration (BBA) - General (3 yrs.)
2. Bachelor of Business Administration- International Business (Global) - (3 yrs.)
3. Bachelor of Business Administration -Banking & Financial Markets - (3 yrs.)
4. Bachelor of Business Administration –Digital Marketing - (3 yrs.)
5. Bachelor of Commerce (B.Com) Hons - (3 yrs.)
6. Master of Commerce. (2 yrs.)





**INTEL Internet of Things (IoT)** Manav Rachna International Institute of Research and Studies (MRIIRS) is collaborating with Intel® Corporation for launching a B.Tech Program in Electronics and Communication Engg. with specialization in Artificial Intelligence and Internet of Things. This Course provides an opportunity to the students to learn the insights to the most important technologies driving the modern world namely Artificial Intelligence and Internet of Things. Students will be given 360 degree exposure to various Intel Hardware and Software platforms that are used in Industry for AI and IoT development. The students will be able to learn about Intel Galileo, Intel Edison Boards along with other popular boards like Raspberry Pi and Arduino for designing IoT Systems.



**Bombay Stock Exchange (BSE):** In pursuit of bringing the best education to its students, MREI have initiated a tie-up with BSE Institute, the education & training wing of Bombay Stock Exchange which is the oldest and the largest (in terms of companies listed & fastest stock exchange in the world) to offer both short term and medium term courses in the Finance space which are both skill as well as employment oriented. This will give an opportunity to the students of Manav Rachna to gain from their invaluable wealth of knowledge and experience. BSE Institute has also plan to invest not only in classroom teaching but also in creating a lab with semi live data which will help students gain practical knowledge of the markets & online trading.



**Infosys:** Manav Rachna has been associated with Infosys since 2009 for training the students & faculty members under the purview of the Infosys Campus Connect Programme. Under this programme, Infosys certified faculty members conduct special modules for grooming and soft skills of graduates, as per the industry demand. Manav Rachna International University is offering a number of elective courses under the same flagship. Infosys has also sponsored faculty members for participation in international conferences.



**Mitsubishi Electric India (MEI)** - MEI set up an Advanced Automation (Factory Automation) Lab in the campus. Through this lab, the students will have an opportunity to work on advanced IQR setup which is used for Automation in the Industries. Consequently, they will have better employability prospects and hence better career prospects. Several workshops and FDPs on 'Advanced Modular PLC', Servomotors & VFD', Process Control & SCADA systems have been organized in collaboration with Mitsubishi Electric India. So far, more than 500 students & faculty members have benefited from these activities. Industrial training in Factory Automation Lab (Centre of Excellence established by Mitsubishi) is also being conducted for final year students to enhance their employability prospects. Our students actively participate in "Mitsubishi Electric Cup ", a national level project competition held by Mitsubishi every year. The students and faculty members of MRIIRS have access to webinars conducted by Mitsubishi Electric India.



**SPEFL-SC**, Sports, Physical Education, Fitness & Leisure Skills Council (SPEFL-SC), a skill development council for the Sports, Physical Education, Fitness & Leisure Sector, promoted by the Federation of Indian Chambers of Commerce & Industry (FICCI) and funded by the Government of India through National Skill Development Corporation (NSDC) enter into the agreement with FAS (MRIIRS) to offer skill development training programs for employment in Sports, Physical Education, Fitness & Leisure Industry Sector, for which both SPEFL-SC and MRIIRS shall deploy their core competencies. MRIIRS shall be Training Partner for conducting training programs, organizing the assessment & certification of Trainers and trainees from SPEFL-SC. The Sports Skill Council has declared MRIIRS as its stand-alone centre in view of the facilities available for training.



**NHRD Network:** MBA students participate in various inter-college competitions and faculty members attend various workshops conducted by NHRD. Executive committee members of NHRD visit the campus and interact with MBA students.



**All India Management Association (AIMA):** MR Institutions are closely linked with AIMA and its Faridabad chapter (FMA). Faculty members attend various seminars, symposiums, conclaves and development programmes organized under the aegis of AIMA.

## IBM

**International Business Machine(IBM):** IBM has tied up with MRIIRS to jointly offer B.Tech-Computer Science & Engg. with specialization in Digital Forensics & Cyber Security to train the students on latest global technology and equip them with practical knowledge of working in the IT sector, where they can learn to implement their theoretical knowledge acquired through their program.



**Honda Motorcycle and Scooter India Private Limited (HMSI):** The Department of Automobile Engineering, MRIIRS in association with Honda Motorcycle and Scooter India Private Limited (HMSI) has established a Centre for Automotive Training & Research. Here, HMSI will provide technology support to MRIIRS for setting up training and research infrastructure for MRIIRS students.



**Ed Gate Technologies Pvt. Ltd.:** University Programme Partner of Texas Instruments (TI), India has signed an MOU with MRIIRS for setting up a joint entitled " Texas Instruments Embedded System/Microcontrollers" at MRIIRS premises. EdGate Technologies Pvt. Ltd. provide equipment and training material to set up the lab based on IT platform and to provide initial training and learning material to begin the instructions. EDGate Technologies Pvt. Ltd., will help the university to organize training programmes/tutorials,workshops & faculty development programmes in its premises for faculty members of MRIIRS (formerly MRIU) & other Engineering Institutions to teach topics related to IT platform.



**Electric One:** Incepted with a single-minded objective, Electric Vehicle Center of Excellence (COE) in association with Electric one Mobility Pvt Limited is aimed to educate, engage and elevate students to be future-ready in a changed EV environment. This Certification and Curriculum based Experiential Program at the Centre will cater to the much-needed skills amongst students for the ever-growing futuristic segment of electric vehicles. It will provide tremendous professional and academic opportunities in the coming years. Most importantly, this Program will strengthen India's EV Vision.

## CHAPTER -2 AUTHORITIES OF THE UNIVERSITY

### 2.1 BOARD OF MANAGEMENT

**Ex-Officio Member**

Dr. Sanjay Srivastava

Vice-Chancellor

Chairman

**Pro Vice Chancellor**

Dr. Naresh Grover

Pro Vice Chancellor

Dr. Pardeep Kumar

Pro Vice Chancellor

Dr. G. L. Khanna

Pro Vice Chancellor

**Other Members:**

**Two Deans of Faculties:**

Dr. Arundeeep Singh

Dean - FDS

Dr. Maithili Ganjoo

Dean - FMeH

**Three eminent academicians nominated by the Chancellor:**

Dr. D.S.Kumar

Former Professor, PEC, Chandigarh  
and Director-CITM, Faridabad.

Dr. Anita Choudhary

IAS (Retd)

Dr. N. C. Wadhwa

DG - MREI

**UGC Nominee:**

Vacant

Yet to be nominated by the UGC

**Two Faculty Members (from Professors, Associate Professors):**

Dr. Anupama Rajput

Prof., Dept. of Applied Science, FET upto 24.09.2021

Dr. Suresh Kumar

Prof., Dept. of CSE, FET w.e.f 07.10.2021

Dr. Sunita Virmani Associate

Prof., Dept. of CSE, FET upto 24.09.2021

Dr. Mahak Sharma Associate

Prof., Dept. of N&D, FASHw.e.f 07.10.2021

**Nominees of the Trust:**

Dr. Amit Bhalla

Dr. M.M. Kathuria upto 05.06.2022

Sh. Atul Kalra

Sh. Navdeep Chawla

**CoE, MRIIRS (Permanent Invitee)**

Sh. N. K. Sharma

**Secretary:**

Sh. R. K. Arora

Registrar, MRIIRS

## 2.2 ACADEMIC COUNCIL

|                               |  |          |
|-------------------------------|--|----------|
| 1. Dr. Sanjay Srivastava      | Vice- Chancellor                             | Chairman |
| 2. Dr. Naresh Grover          | Pro Vice Chancellor                          |          |
| 3. Dr. Pardeep Kumar          | Pro Vice Chancellor                          |          |
| 4. Dr. G. L. Khanna           | Pro Vice Chancellor w.e.f 01.04.2021         |          |
| 5. Dr. Pardeep Kumar          | Dean - FET                                   |          |
| 6. Dr. Moattar Raza Rizvi     | Dean-FAHS                                    |          |
| 7. Dr. Maithili Ganjoo        | Dean - FMeH                                  |          |
| 8. Dr. Monika Goel            | Dean –FCBS upto 31.03.2022                   |          |
| 9. Dr. Monika Goel            | Dean –FoC w.e.f 01.04.2022                   |          |
| 10. Dr. Nandlal Dhamija       | Dean - FMS upto 19.01.2022                   |          |
| 11. Lt Gen R.K.Anand          | Dean-FMS w.e.f 20.01.2022 to 05.12.2022      |          |
| 12. Dr. Sanjay Srivastava     | Dean-FMS w.e.f 06.12.2022 to 14.02.2023      |          |
| 13. Lt Gen R.K.Anand          | Dean-FMS w.e.f 15.02.2022                    |          |
| 14. Dr. Chavi B. Sharma       | ED & Dean – FBSS upto 13.10.2021             |          |
| 15. Dr. Naresh Grover         | Dean-FBSS w.e.f 28.10.2021                   |          |
| 16. Col. Sanjeev Kumar        | Dean - FAD w.e.f 02.08.2021 to 15.02.2022    |          |
| 17. Dr. Pardeep Kumar         | Dean - FAD w.e.f 16.02.2022                  |          |
| 18. Dr. S. S. Tyagi           | Dean – FCA upto 02.09.2021                   |          |
| 19. Dr. Pardeep Kumar         | Dean-FCA w.e.f 03.09.2021 to 14.11.2021      |          |
| 20. Dr. Usha Batra            | Dean-FCA w.e.f 15.11.2021                    |          |
| 21. Dr. S. K. Saluja          | Dean – FHM upto 20.08.2021                   |          |
| 22. Lt Gen R.K.Anand          | Dean-FHM w.e.f 20.01.2022 to 05.12.2022      |          |
| 23. Dr. Sanjay Srivastava     | Dean-FHM w.e.f 06.12.2022 to 14.02.2023      |          |
| 24. Lt Gen R.K.Anand          | Dean-FHM w.e.f 15.12.2022                    |          |
| 25. Dr. Arundeeep Singh       | Dean - FDS                                   |          |
| 26. Air Cmde. Devender Sharma | HoD, Dept. of Aero, FET upto 30.04.2022      |          |
| 27. Dr. Devender Vashisht     | HoD, Dept. of Aero, FET w.e.f. 05.05.2022    |          |
| 28. Dr. Devender Vashisht     | HoD, Dept. of Auto, FET                      |          |
| 29. Dr. Sunita Bansal         | HoD, Dept. of Civil, FET                     |          |
| 30. Dr. Supriya P Panda       | HoD, Dept. of CSE, FET                       |          |
| 31. Dr. Tapas Kumar           | HoD, Dept. of CSE (IBM), FET                 |          |
| 32. Dr. Leena G               | HoD, Dept. of EEE, FET                       |          |
| 33. Dr. Manoj Nayak           | HoD, Dept. of ME, FET                        |          |
| 34. Dr. Sarita Sachdeva       | HoD, Dept. of Bio-Tech, FET upto 15.03.2022  |          |
| 35. Dr. Manu Solanki          | HoD, Dept. of Bio-Tech, FET w.e.f 16.03.2022 |          |
| 36. Dr. Jyoti Chawla          | HoD, Dept. of Applied Sciences, FET          |          |
| 37. Dr. Abhiruchi Passi       | HoD, Dept. of ECE, FET                       |          |
| 38. Dr. Arunangshu Mukherjee  | HoD, Dept. of Earth Sc & Env                 |          |
| 39. Prof. Sanjay Kumar Surya  | HoD, Dept. of Arch & Design upto 23.07.2021  |          |
| 40. Ms. Shruti Jain           | HoD, Dept. of Arch & Design w.e.f 08.09.2021 |          |

|                               |   |
|-------------------------------|---|
| 41. Dr. Mottar Raza Rizvi     | HoD, Dept. of Physiotherapy, FAHS upto 08.10.2021       |
| 42. Dr. Nitesh Malhotra       | HoD, Dept. of Physiotherapy, FAHS w.e.f 09.10.2021      |
| 43. Dr. Divya Sanghi          | HoD, Dept. of N&D, FAHS                                 |
| 44. Dr. Narender Tanwar       | HoD, Dept. of Business Studies, FCBS upto 31.03.2022    |
| 45. Dr. Jayander Verma        | HoD, Dept. of Commerce, FCBS upto 31.03.2022            |
| 46. Dr. Jayander Verma        | HoD, Dept. of Commerce, FoC w.e.f.01.04.2022            |
| 47. Dr. Maithili Ganjoo       | HoD, Dept. of Media Studies, FMeH upto 08.03.2021       |
| 48. Dr. Aman Vats             | HoD, Dept. of Media Studies, FMeH                       |
| 49. Dr. Shivani Vashisht      | HoD, Dept. of English, FMeH                             |
| 50. Dr. Shaveta Bhatia        | HoD, Dept. of Computer Application, FCA upto 21.11.2021 |
| 51. Dr. Rashmi Agrawal        | HoD, Dept. of Computer Application, FCA w.e.f 30.11.21  |
| 52. Dr. Deepti Dabas Hazarika | HoD, Dept. of Mgmt. Studies, FMS upto 31.03.2022        |
| 53. Dr. Deepti Dabas Hazarika | HoD, Dept. of PG-Mgmt. Studies, FMS w.e.f 01.04.2022    |
| 54. Dr. Bhavesh Prakash Joshi | HoD, Dept. of UG-Mgmt. Studies, FMS w.e.f 01.04.2022    |
| 55. Dr. K. M. Tripathi        | HoD, Dept. of Psy, FBSS upto 20.03.2021                 |
| 56. Dr. Priyanka Tiwari       | HoD, Dept. of Psy, FBSS w.e.f 09.09.2021                |
| 57. Dr. Anandjit Goswami      | HoD, Dept. of Economics, FBSS upto 27.09.2021           |
| 58. Dr. Durairaj Kumarasamy   | HoD, Dept. of Economics, FBSS w.e.f 28.09.2021          |
| 59. Dr. Anandjit Goswami      | HoD, Dept. of Social & Political Studies, FBSS          |
| 60. Ms. Ritika Singh          | HoD, Dept. of HM, FMS upto 28.02.2021                   |
| 61. Dr. Narender Suhag        | HoD, Dept. of HM, FMS w.e.f 01.03.2021 to 07.05.2022    |

### All Professors other than the Heads of the Departments:

|                            |  |
|----------------------------|--|
| 62. Dr. Nandini Srivastava | Dept. of PG Management Studies & Director CDP    |
| 63. Dr. Sarita Sachdeva    | Dept. of BT upto 08.10.2021                      |
| 64. Dr. Rakesh Kumar       | Dept. of Business Studies, FCBS w.e.f 07.01.2021 |
| 65. Dr. Amit Seth          | Dept. of Business Studies, FMS upto 08.10.2021   |
| 66. Dr. Anita Khosla       | Dept. of EEE, FET w.e.f 09.10.2021               |
| 67. Dr. Leena G.           | Dept. of EEE, FET upto 08.10.2021                |
| 68. Dr. Anupama Rajput     | Dept. of Applied Sc., FET w.e.f 07.01.2021       |
| 69. Dr. Deepak Kumar       | Dept. of Math, FET w.e.f 07.01.2021              |
| 70. Dr. Geeta Nijhawan     | Dept. of ECE, FET upto 08.10.2021                |
| 71. Dr. Surbhi Kapur       | Dept. of Mgt Studies w.e.f 09.10.2021            |
| 72. Dr. Pratibha Singh     | Dept. of N & D, FAHS w.e.f 09.10.2021            |
| 73. Dr. Rashmi Agarwal     | Dept. of CA, FCA upto 29.11.2021                 |
| 74. Dr. Abhilasha Shourie  | Dept. of BT, FET w.e.f 09.12.2021                |
| 75. Dr. Devi Singh         | Dept. of Applied Sc., FET upto 02.05.2022        |
| 76. Dr. Suresh Kumar       | Dept. of CSE, FET, upto 02.05.2022               |

**Two Assistant Professors from the Departments (by rotation of seniority):**

|                       |   |
|-----------------------|---|
| 81. Mr. Arun Vashista | Dept. of Business Studies, FCBS upto 08.10.2021 |
| 82. Dr. Shilpa Arora  | Dept. of Mgt Studies, FMS w.e.f 09.10.2021      |
| 83. Ms. Shweta Sharma | Dept. of CSE, FET upto 08.10.2021               |
| 84. Ms. Priyanka Rani | Dept. of CSE, w.e.f 09.10.2021                  |

**Three persons amongst educationists of repute or persons from any other field related to the activities of the institution deemed to be University who are not in the service of the institution deemed to be University:**

|   |        |
|---|--------|
| 85. Ms. Anita Chaudhary, IAS (Retd.) upto 07.01.2022  | Member |
| 86. Dr. Purna Gaur, Prof & founder ICE and EE, NSUT w.e.f 08.04.2022                              | Member |
| 87. Sh. S.K.Goel, Director Starwire upto.02.02.2021   | Member |
| 88. Prof. Mewa Singh Turan (Retd) w.e.f 03.02.2021<br>J-52FF, Jemma Block, EMERALD Hill, Gurugram | Member |
| 89. Dr. Pawan Kumar Dahiya, Prof, Dept. of ECE and<br>Consultant (Acad.), DCRUST, Murthal         | Member |

**Three persons who are not member of teaching Staff, co-opted by the Academic Council for their specialized knowledge:**

|   |        |
|---|--------|
| 90. Dr. A. Murli M. Rao, Head Computer Division, IGNOU, New Delhi                                   | Member |
| 91. Dr. Nasib Singh Gill, Head of Dept. of Computer Sc & Application<br>MDU, Rohtak upto 07.01.2022 | Member |
| 92. Dr. Saranjeet Singh Bhasin, Prof. Jamia Millia Islamia<br>New Delhi w.e.f 08.04.2022            | Member |
| 93. Dr. Dayal Singh Kumar, Former Professor, PEC, Chandigarh<br>and Director-CITM, Faridabad.       | Member |

**Ex-Officio Secretary:**

|                     |                   |
|---------------------|-------------------|
| 94. Sh. R. K. Arora | Registrar, MRIIRS |
|---------------------|-------------------|

## 2.3 PLANNING AND MONITORING BOARD

**Ex-Officio Chairman:**

Dr. Sanjay Srivastava

Vice Chancellor, MRIIRS Chairman

**Seven Internal Members:**

Dr. Naresh Grover

Pro Vice Chancellor

Dr. Pardeep Kumar

Pro Vice Chancellor

Dr. Chavi Bharagava Sharma

Dean - FBSS upto 13.10.2021

Dr. G. L. Khanna

Pro Vice Chancellor w.e.f 01.04.2021

Dr. S. S. Tyagi

Dean – FCA upto

Dr. Usha Batra

Dean - FCA w.e.f 20.11.2021

Dr. Arundeeep Singh

Dean - FDS

Dr. Maithili Ganjoo

Dean - FMeH

Dr. Deepti Dabas Hazarika

Director - FMS

**Three External Members:**

Prof. Sandeep Grover

Prof & HOD, Mech. Engg. (YMCA, University of Science & Technology, Faridabad

Prof. K. Subramanian

IEEE Delhi Section (Past Chair) & Chairman

Mr. Vikram Mattoo

NC. National Execom B-28 Tarang Appt,  
Plot No 19, IP Extn Patparganj, New Delhi  
General Manager, Mitsubishi Electric  
India Pvt Ltd, Gurugram

**Ex-Officio Secretary:**

Sh. R. K. Arora

Registrar, MRIIRS

## 2.4 FINANCE COMMITTEE

**Ex-Officio:**

Dr. Sanjay Srivastava

Vice Chancellor, MRIIRS Chairman

**Nominee(s) of the Society/Trust:**

Dr. M.M. Kathuria upto 05.06.2022

**Two nominees of the Board of Management one of whom shall be a Member of Board:**

Dr. Amit Bhalla

Vice President, MRIIRS

Sh. Amit Kumar

Chartered Accountant

**A Representative of the Central Govt:**

Vacant

**Ex-Officio Secretary:**

Sh. Santosh Jha

Chief Finance Officer

## CHAPTER – 3

### FACULTIES OF THE UNIVERSITY

#### 3.1 FACULTY OF ENGINEERING & TECHNOLOGY

#### Departments:

- | S. No. | Name of Department                                     |
|--------|--|
| 1.     | Department of Biotechnology                            |
| 2.     | Department of Civil Engineering                        |
| 3.     | Department of Computer Science Engineering             |
| 4.     | Department of Electronics & Communications Engineering |
| 5.     | Department of Electrical & Electronics Engineering     |
| 6.     | Department of Mechanical Engineering                   |
| 7.     | Department of Applied Science                          |

| Programmes   |           |                      |     |                  |    |
|--|-----------|----------------------|-----|------------------|----|
| Name of the Faculty  | Programme | Student Intake       |     | Total Admissions |    |
|  |           | UG                   | PG  | UG               | PG |
|  |           | B.Tech-Biotechnology | 30  |                  | 15 |
| B.Tech-Civil Engineering   | 30        |                      | 13  |                  |    |
| B.Tech-Computer Science Engineering                                  | 240       |                      | 240 |                  |    |
| B.Tech-Computer Science Engineering-Digital Forensics Cyber Security | 60        |                      | 47  |                  |    |
| B.Tech-Computer Science Engineering – Gaming Technology              | 30        |                      | 19  |                  |    |
| B.Tech-Electronics & Communication Engineering                       | 60        |                      | 21  |                  |    |
| B.Tech-Electrical & Electronics Engineering                          | 30        |                      | 09  |                  |    |
| B.Tech-Mechanical Engineering  | 60        |                      | 10  |                  |    |
| M.Tech- Biotechnology  |           |                      | 06  | 03               |    |
| M.Tech- Civil Engineering  |           |                      | 24  | 09               |    |
| M.Tech-Computer Engineering and Networking                           |           |                      | 06  | 02               |    |
| M.Tech-Electronics and Communication Engineering                     |           |                      | 06  | 01               |    |
| M.Tech Automation & Robotics   |           |                      | 06  | 02               |    |
| M.Tech-Mechanical Engineering  |           |                      | 06  | 00               |    |
| B.Sc. Microbiology   | 20        |                      | 17  |                  |    |
| M.Sc. Microbiology   |           |                      | 05  | 02               |    |
| M.Sc.-Biotechnology  |           | 20                   |     | 18               |    |

## Faculty of Engineering and Technology (FET)

### List of Faculty Members:

| Name of the Full-time teacher | Designation         | Department                                |
|-------------------------------|---------------------|---|
| Devender Sharma               | Professor           | Aeronautical Engineering                  |
| Sachin Marwah                 | Associate Professor | Aeronautical Engineering                  |
| Vishnu Raj                    | Assistant Professor | Aeronautical Engineering                  |
| Devendra Vashist              | Professor           | Automobile Engineering                    |
| Sunny Bhatia                  | Assistant Professor | Automobile Engineering                    |
| Nitin Kumar Waghmare          | Assistant Professor | Automobile Engineering                    |
| Gurpreet Singh Matharou       | Assistant Professor | Automobile Engineering                    |
| Manu Solanki                  | Professor           | Biotechnology                             |
| Kapila Kumar                  | Assistant Professor | Biotechnology                             |
| Sarita Sachdeva               | Professor           | Biotechnology                             |
| Pushpa Tomar                  | Professor           | Biotechnology                             |
| Rashmi Rameshwari             | Associate Professor | Biotechnology                             |
| Abhilasha Shourie             | Professor           | Biotechnology                             |
| Shobha Shrivastava            | Associate Professor | Biotechnology                             |
| Nidhi Didwania                | Professor           | Biotechnology                             |
| Prachie Sharma                | Assistant Professor | Biotechnology                             |
| Sabiha Imran                  | Professor           | Biotechnology                             |
| Adhikarla Syama               | Assistant Professor | Biotechnology                             |
| Kanchan Bhardwaj              | Associate Professor | Biotechnology                             |
| Upasana Bedi Chanana          | Associate Professor | Biotechnology                             |
| Krishna Priya Ganti           | Associate Professor | Biotechnology                             |
| Preeti Nandal                 | Assistant Professor | Biotechnology                             |
| Jayant Maini                  | Assistant Professor | Biotechnology                             |
| Sadiqa Abbas                  | Professor           | Civil Engineering                         |
| Anjali Gupta                  | Professor           | Civil Engineering                         |
| Sonal Bhugra                  | Assistant Professor | Civil Engineering                         |
| Sunita Bansal                 | Professor           | Civil Engineering                         |
| Aftab Alam                    | Assistant Professor | Civil Engineering                         |
| Arunangshu Mukherjee          | Professor           | Civil Engineering                         |
| Yaman Hooda                   | Assistant Professor | Civil Engineering                         |
| HaobamDerit Singh             | Assistant Professor | Civil Engineering                         |
| Sneha Rai                     | Assistant Professor | Civil Engineering                         |
| Dipankar Saha                 | Professor           | Civil Engineering                         |
| Vimlesh Singh                 | Associate Professor | Electronics and Communication Engineering |
| Abhiruchi Passi               | Professor           | Electronics and Communication Engineering |
| Jyoti Verma                   | Assistant Professor | Electronics and Communication Engineering |
| Amana                         | Assistant Professor | Electronics and Communication Engineering |
| Geeta Nijhawan                | Professor           | Electronics and Communication Engineering |

|                        |                     |   |
|------------------------|---------------------|---|
| Naresh Grover          | Professor           | Electronics and Communication Engineering |
| Umesh Dutta            | Associate Professor | Electronics and Communication Engineering |
| Pratima Manhas         | Associate Professor | Electronics and Communication Engineering |
| Perna Kakkar           | Assistant Professor | Electronics and Communication Engineering |
| Yogendra Kumar Awasthi | Professor           | Electronics and Communication Engineering |
| Amarinder Kaur         | Assistant Professor | Electrical and Electronics Engineering    |
| Richa Adlakha          | Assistant Professor | Electrical and Electronics Engineering    |
| Leena G                | Professor           | Electrical and Electronics Engineering    |
| Anita Khosla           | Professor           | Electrical and Electronics Engineering    |
| Ashish Grover          | Associate Professor | Electrical and Electronics Engineering    |
| Neha Chaudhary/Midha   | Assistant Professor | Electrical and Electronics Engineering    |
| Amit Atri              | Assistant Professor | Electrical and Electronics Engineering    |
| Virender Narula        | Professor           | Mechanical Engineering                    |
| Joydeep                | Associate Professor | Mechanical Engineering                    |
| Basanta Kumar Bhuyan   | Professor           | Mechanical Engineering                    |
| Rajender Kumar         | Assistant Professor | Mechanical Engineering                    |
| Seema Mahto            | Assistant Professor | Mechanical Engineering                    |
| Pankaj Shakkarwal      | Assistant Professor | Mechanical Engineering                    |
| Jimmy Mehta            | Assistant Professor | Mechanical Engineering                    |
| Devdutt                | Associate Professor | Mechanical Engineering                    |
| Dinesh Chawla          | Assistant Professor | Mechanical Engineering                    |
| Sushant                | Assistant Professor | Mechanical Engineering                    |
| Vinay                  | Assistant Professor | Mechanical Engineering                    |
| Dain D. Thomas         | Assistant Professor | Mechanical Engineering                    |
| Manoj Nayak            | Professor           | Mechanical Engineering                    |
| Prateek Mittal         | Assistant Professor | Mechanical Engineering                    |
| Arun Gaur              | Assistant Professor | Mechanical Engineering                    |
| Anupama Rajput         | Professor           | First Year (ASH)- Chemistry               |
| Jyoti Chawla           | Professor           | First Year (ASH)- Chemistry               |

|                        |                     |                             |
|------------------------|---------------------|-----------------------------|
| Rajeev kumar           | Assistant Professor | First Year (ASH)- Chemistry |
| Sarvesh Kumar          | Associate Professor | First Year (ASH)- Physics   |
| Devi Singh             | Professor           | First Year (ASH)- Physics   |
| Kapil Gupta            | Assistant Professor | First Year (ASH)- Physics   |
| Sandeep Srivastava     | Assistant Professor | First Year (ASH)- Physics   |
| Deepak Kumar           | Professor           | First Year (ASH)- Maths     |
| Vijay Kumar            | Professor           | First Year (ASH)- Maths     |
| Arti Saxena            | Assistant Professor | First Year (ASH)- Maths     |
| Pooja Khurana/Sachdeva | Associate Professor | First Year (ASH)- Maths     |
| Neeraj Kumari          | Professor           | First Year (ASH)- H&M       |
| Mithun Khanduja        | Assistant Professor | First Year (ASH)- H&M       |
| Nitin Jain             | Assistant Professor | First Year (ASH)- H&M       |
| Harsh Vermani          | Assistant Professor | First Year (ASH)- H&M       |
| Shagufta Jabin         | Professor           | First Year (ASH)- Chemistry |
| Pardeep Kumar          | Professor           | First Year (ASH)- Physics   |
| Usha                   | Assistant Professor | First Year (ASH)- Maths     |



**DEPARTMENT(S) AT A GLANCE**
**1. DEPARTMENT OF AERONAUTICAL ENGINEERING**
**i) Thrust Areas of the Department:**

- Computational Fluid Dynamics (CFD)
- Experimental Aerodynamics
- Structural dynamics, vibration and control
- Dynamics, control and guidance of atmospheric flights vehicles and spacecraft
- Flight Testing

**ii) Academic Achievements:**
**a. Student's Publications: 2021-22**

| Title of the Paper   | Name of the author (s)  | Student Author                         | Title of the Journal / Conference / Book  |
|--|---|--|---|
| Unmanned Aerial Vehicle Defence and Civil Sector   | Raghav Arora,<br>Air Cmde<br>Devender<br>Sharma                                   | Raghav Arora                           | Journal of Xi'an University of Architecture & Technology, Volume XIII, Issue 6, 2021                                  |
| Investigation of lift and Drag Characteristics of Traditional Symmetrical, Cambered and Supercritical Airfoils at Different Angles of Attack and Mach Nons | Saurav Suman,<br>Akash<br>Maheswari, Air<br>Cmde Devende<br>Sharma                | Saurav Suman,<br>Akash<br>Maheswari    | GEDRAG & ORGANISATIE REVIEW - ISSN:0921-5077, VOLUME 34 : ISSUE 02 - 2021   |
| Dawn of Electric Powered Aircraft  | Pratham Dawar, Akshita Singh Jadoun,<br>Air Cmde<br>Devender<br>Sharma            | Pratham Dawar, Akshita Singh Jadoun    | GIS SCIENCE JOURNAL   |
| A Comprehensive review on blended wing body Aircraft   | Satish Chaudhary, Air Cmde Devender Sharma  | Satish Chaudhary                       | Vidyabharati International Interdisciplinary Research Journal   |
| Air Traffic Controllers and Tools  | Anish Yadav,<br>Kunal<br>Bhardwaj,<br>Siddhartha<br>Gahlot,<br>Devender<br>Sharma | Anish Yadav,<br>Kunal<br>Bharadwaj     | Zeichen Journal   |
| Design and Development of Hypersonic Aerial Vehicles   | Amritansh Pratap Singh, Vini Choudhary, Devender Sharma                           | Amritansh Pratap Singh, Vini Choudhary | Lect. Notes Mechanical Engineering, Niraj Kumar et al. (Eds): Advances in Interdisciplinary Engineering, (Chapter 47) |



**c. Students benefited by career counseling and guidance for competitive Examinations: 2021-22**

| Activity Description                                | No. of Participants |
|---|---------------------|
| GATE coaching for Aeronautical Engineering Students | 15                  |

**d. FDPs attended by faculty members: 2021-22**

| Name of the Faculty member | Title of FDP / Workshop / Conference Attended                           | Duration   |            |
|----------------------------|---|------------|------------|
|                            |   | Date from  | Date to    |
| Vishnu Raj                 | FDP on Business Start-ups and Innovation Management recognised by AICTE | 06-06-2022 | 10-06-2022 |

**e. Faculty Research Papers: 2021-22**

| Title of paper   | Name of Author  | Title of Journal   | Year of Publication |
|--|---|--|---------------------|
| A Comprehensive review on blended wing body Aircraft                   | Satish Chaudhary, Air Cmde Devender Sharma  | Vidyabharati International Interdisciplinary Research Journal                  | 2021-22             |
| A Detailed Study CFD Analysis of NACA 0012 at Varying Angles of Attack | Vani Sadadiwala, Air Cmde Devender Sharma   | International Journal for Research in Applied Science & Engineering Technology | 2021-22             |
| Air Traffic Controllers and Tools                                      | Anish Yadav, Kunal Bhardwaj, Siddhartha Gahlot, Devender Sharma                         | Zeichen Journal  | 2021-22             |
| Dawn of Electric Powered Aircraft                                      | Pratham, Akshita and Air Cmde Devender Sharma   | GIS SCIENCE JOURNAL  | 2021-22             |
| Design and Development of a Multi-Application Hexacopter               | Satish Chaudhary, Jagriti Verma, Aditya Pratap Singh, Manish Awana, Devender Sharma     | International Journal for Research in Applied Science & Engineering Technology | 2021-22             |
| Design and Development of Hypersonic Aerial Vehicles                   | Amritansh Pratap Singh, Vini Choudhary, Devender Sharma                                 | Advances in Interdisciplinary Engineering                                      | 2021-22             |
| Human Body Monitoring Wearable Antenna                                 | Vani Sadadiwala, Kashish Mahindroo, Vimlesh Singh, Priyanka Bansal, and Sarthak Singhal | Optical and Wireless Technologies Proceedings of OWT                           | 2021-22             |

|  |   |   |         |
|--|---|---|---------|
| Investigation of lift and Drag Characteristics of Traditional Symmetrical, Cambered and Supercritical Airfoils at Different Angles of Attack and Mach Nons | Saurav, Akash and Air Cmde Devender Sharma                      | GEDRAG & ORGANISATIE REVIEW   | 2021-22 |
| Monopole Antenna For Experimental Flight Applications  | Vani Sadadiwala, Devender Sharma, Vimlesh Singh, Sarthak Singal | Journal of Aerospace Sciences and Technologies                          | 2021-22 |
| Unmanned Aerial Vehicle Defence and Civil Sector   | Raghav Arora, Air Cmde Devender Sharma                          | Journal of Xi'an University of Architecture & Technology                | 2021-22 |
| Virtual & Augmented Reality applications in Aeronautical Engineering   | Air Commodore Devender Sharma                                   | The International journal of analytical and experimental modal analysis | 2021-22 |

#### f. Book Chapters: 2021-22

| Name of the teacher | Title of the book/chapters published | Title of the paper   | Title of the proceedings of the conference |
|---------------------|--------------------------------------|--|--|
| Devender Sharma     | NA                                   | Design and Development of Hypersonic Aerial Vehicles                       | Lecture Notes in Mechanical Engineering    |
| Sabiha Parveen      | NA                                   | Advancement in Digital Flight Control System                               | Lecture Notes in Mechanical Engineering    |
| Sabiha Parveen      | NA                                   | Performance Evaluation of Vortex Generator for ag Reduction in Automobiles | Lecture Notes in Mechanical Engineering    |
| Devender Sharma     | NA                                   | Design and Development of Hypersonic Aerial Vehicles                       | Lecture Notes in Mechanical Engineering    |

## 2. DEPARTMENT OF AUTOMOBILE ENGINEERING

### i) Thrust Areas of the Department:

- **Biofuels** (Jatropha and Castor biodiesel) & Alcohol based fuel (Methanol)
  - Performance and exhaust analysis of biofuel blends with diesel / gasoline.
  - Alternate energy sources for vehicles.

- **Automotive technologies**
  - DPF & SCR Technologies for implementing BS VI norms.
  - Active and passive safety technologies
  - Emission Measuring Techniques
- **Automotive Materials**
  - Composites for automobile parts
- **Mobility Design**
  - Ergonomics in Automotive Design
  - Computer Aided Design (for Auto parts)
- **Electric and Hybrid Vehicles**

## ii) Academic Achievements:

### a. Student's Publications: 2021-22

| Title of paper  | Name of all the author(s)  | Student Authors                                 | Journal/Conference/Book Title                    |
|---|--|---|--|
| Prototype of Operating a Vehicle Using Arduino Microcontroller With Wireless Communication System | Gurpreet Singh Matharou, Nitin Kumar Waghmare, Prakash Tiwari, Bharat Sharma, Anuj Shrivastava | Prakash Tiwari, Bharat Sharma, Anuj Shrivastava | IEEE xplore<br>INSPEC Accession Number: 22008125 |
| Design and Manufacturing of Automated Guided E-Cart for Stock Relocation                          | Nitin Kumar Waghmare, Gurpreet Singh Matharou, Saksham Bhatia, Dheeraj Kashyap, Anmol Singh    | Saksham Bhatia, Dheeraj Kashyap, Anmol Singh    | IEEE xplore<br>INSPEC Accession Number: 22008088 |
| The Design and Development of Advanced Braking System with Microcontroller                        | Gurpreet Singh Matharou, Chirag Gupta, Vansh Pradhan, Tushar Ahlawat                           | Chirag Gupta, Vansh Pradhan, Tushar Ahlawat     | ECS Transactions IOPScience                      |
| Technological Advancements For Reduced Charging Time Of Electric Vehicle Batteries                | Devendra Vashist & Abdullah Naim,  | Abdullah Naim,                                  | Smart Structures in Energy Infrastructure        |
| Design Analysis Of Dimmer Light For Autonomous Vehicles   | Devendra Vashist &Abhishek Mangla, Dhruv Gulati, Nanak Jhamb                                   | Abhishek Mangla, Dhruv Gulati, Nanak Jhamb      | Smart Structures in Energy Infrastructure        |
| A Review On Performance Of Electric Motor Vehicle   | Gagandeep Singh, Harshit Manchanda, Sunny Bhatia   | Gagandeep Singh, Harshit Manchanda,             | Lecture Notes in Electrical Engineering          |

|  |  |  |  |
|--|--|--|--|
| A Review Paper On Materials Used For Manufacturing Of Alloy Wheels | Abdullah Naim, Ritesh Kumar and Sunny Bhatia                       | Abdullah Naim, Ritesh Kumar                      | IOP Conference Series: Materials Science and Engineering                           |
| Analysis of gasoline electric hybrid two wheeler                   | Devendra Vashist, Harshit Manchanda, Bavneet Singh & Bashed Ahamed | Harshit Manchanda, Bavneet Singh & Bashed Ahamed | 3rd International Conference on Recent Trend on Science and Technology ICRTST-2021 |

#### b. Student progression to higher education during the year: 2021-22

| Name of students enrolled for higher education | Graduated from which Programme  | Name of institution joined | Admitted to (Name of Programme)  |
|--|---------------------------------|----------------------------|----------------------------------|
| Anubhav Batra                                  | B.Tech - Automobile Engineering | University of Leeds, UK    | MSc (Eng) Automotive Engineering |
| Chirag D Ghumare                               | B.Tech - Automobile Engineering | University of Leeds, UK    | MSc (Eng) Automotive Engineering |
| Harsh Gupta                                    | B.Tech - Automobile Engineering | University of Leeds, UK    | Master of Science                |

#### c. Faculty members: Awards & Recognitions:2021-22

| Name of Faculty Member  | Awards/Recognition  |
|-------------------------|---|
| Sunny Bhatia            | Recognition for publishing patent: Mechanized Retail Store Comprising 3D Printed Autonomous Home Delivery Drone (03.12.2021)  |
| Nitin Kumar Waghmare    | Recognition for publishing patent: Mechanized Retail Store Comprising 3D Printed Autonomous Home Delivery Drone (03.12.2021)  |
| Devendra Vashist        | Recognition as Invited reviewer for International Journal of Creative Research Thoughts (2021-22)   |
| Devendra Vashist        | Certificate of Award-Elite NPTEL online certification on Electric Vehicles and Renewable Energy (July to October 2021)  |
| Gurpreet Singh Matharou | Recognition as Invited reviewer for paper titled "A survey on various Alzheimer classification techniques using 3DMRI images: A challenging overview" (09-12-2021)  |
| Gurpreet Singh Matharou | Recognition as Invited Speaker for International Online Conference on Materials Science and Technology (ICMT 2021) held from 12-14 November 2021  |
| Gurpreet Singh Matharou | Recognition for publishing patent: External Handbrake with Mechanical Park Assist, issued on 27.08.2021 by Office Journal of the Patent Office  |
| Gurpreet Singh Matharou | Certificate of Award-Elite NPTEL online certification on Product Design and Manufacturing (30-04-2022)  |
| Gurpreet Singh Matharou | Recognition as Invited reviewer for paper titled "Agriculture Soil fertility assessment using random forest classifier and regressor: ASUR" (June 2022)   |
| Gurpreet Singh Matharou | Recognition as Invited reviewer for paper titled "A survey on various Alzheimer classification techniques using 3D MRI images: A challenging overview" (Jan 2022)UK   |
| Gurpreet Singh Matharou | Recognition as Invited Reviewer for Paper titled "A credit risk assessment on borrowers classification using optimized decision tree and KNN with Bayesian optimization" for Inderscience Publisher (February 2022) |

|                         |   |
|-------------------------|---|
| Gurpreet Singh Matharou | Recognition as Invited Reviewer for Paper titled "Estimating regulatory governance gaps for adoption of augmented reality in automobile sector: the application of analytical hierarchy approach" for Inderscience Publisher (April 2022) |
|-------------------------|---|

#### d. FDPs/Workshops/Conferences Attended: 2021-22

| Name of the Faculty member | Title of FDP/Workshop/Conference Attended   | Date from  | Date to    |
|----------------------------|---|------------|------------|
| Devendra Vashist           | FDP on Advances in Electric Vehicle Technologies  | 06-07-2021 | 10-07-2021 |
| Devendra Vashist           | FDP on Basics of Electric Vehicles  | 10-09-2021 | 14-09-2021 |
| Devendra Vashist           | FDP on Electric Vehicles and Renewable Energy   | 01-07-2021 | 01-10-2021 |
| Devendra Vashist           | NPTEL Online Certification Course Electric Vehicles Part-I  | 21-02-2022 | 18-03-2022 |
| Gurpreet Singh Matharou    | FDP on Modern Trends in Manufacturing Processes and Control Techniques in Renewable Energy System   | 16-11-2021 | 21-11-2021 |
| Gurpreet Singh Matharou    | FDP on Processing of Novel Materials  | 20-09-2021 | 24-09-2021 |
| Gurpreet Singh Matharou    | FDP on Industrial Robots on Future Factories  | 13-09-2021 | 17-09-2021 |
| Gurpreet Singh Matharou    | FDP on Effective Academic Practices   | 10-01-2022 | 14-01-2022 |
| Gurpreet Singh Matharou    | FDP on Challenges and opportunities in Electric Vehicle   | 17-01-2022 | 21-02-2022 |
| Gurpreet Singh Matharou    | STC on Water Resource Management recognised by AICTE  | 07-03-2022 | 11-03-2022 |
| Gurpreet Singh Matharou    | FDP on NEP 2020 Implementation in Higher Education Institutes recognised by AICTE                   | 09-05-2022 | 13-05-2022 |
| Gurpreet Singh Matharou    | FDP on Work-Life Balance for Technocrats  | 20-05-2022 | 24-05-2022 |
| Gurpreet Singh Matharou    | FDP on Business Start-ups and Innovation Management recognised by AICTE                             | 06-06-2022 | 10-06-2022 |
| Gurpreet Singh Matharou    | NPTEL Online Certification Course Electric Vehicle Part-I   | 21-02-2022 | 18-03-2022 |
| Gurpreet Singh Matharou    | NPTEL Online Certification Course Product Design and Manufacturing                                  | 24-01-2022 | 15-04-2022 |
| Nitin Kumar Waghmare       | ATAL FDP on Nanotechnology Advances in Engineering Materials and Manufacturing                      | 21-06-2021 | 25-06-2021 |
| Nitin Kumar Waghmare       | FDP on "Challenges and Opportunities for Electric Vehicle Adoption"                                 | 19-07-2021 | 23-07-2021 |
| Nitin Kumar Waghmare       | FDP on "Modern Trends in Manufacturing Processes and Control Techniques in Renewable Energy System" | 16-11-2021 | 21-11-2021 |
| Nitin Kumar Waghmare       | FDP on Effective Academic Practices   | 10-01-2022 | 14-01-2022 |

|                      |  |            |            |
|----------------------|--|------------|------------|
| Nitin Kumar Waghmare | STC on Water Resource Management through ICT   | 07-03-2022 | 11-03-2022 |
| Nitin Kumar Waghmare | FDP on 5G Communication & its Application recognised by AICTE                          | 23-05-2022 | 27-05-2022 |
| Nitin Kumar Waghmare | FDP on NEP 2020 Implementation in Higher Education Institutes recognised by AICTE      | 09-05-2022 | 13-05-2022 |
| Sunny Bhatia         | FDP on "Sustainable Green Composites: Design, Manufacturing and Characterization"      | 09-08-2021 | 13-08-2021 |
| Sunny Bhatia         | FDP on "Advances in Novel Composite Materials: Fabrication, Analysis and Optimization" | 06-09-2021 | 10-09-2021 |
| Sunny Bhatia         | FDP on "Additive Manufacturing: Programming, Operation & Applications"                 | 20-09-2021 | 24-09-2021 |
| Sunny Bhatia         | FDP on "3D Printing Technology   | 12-07-2021 | 16-07-2021 |
| Sunny Bhatia         | FDP on NEP 2020 Implementation in Higher Education Institutes recognised by AICTE      | 09-05-2022 | 13-05-2022 |

#### e. Events Organised: 2021-22

| Title  | From Date  | To Date    |
|--|------------|------------|
| Faculty Development Programme with Title "Electric Vehicle Technology: Opportunities and Challenges"-Professional Development Program for teaching staff | 06-12-2021 | 10-12-2021 |

#### f. Faculty Research Papers: 2021-22

| Title of paper   | Name of the author(s)                            | Name of journal   | Year of publication |
|--|--|---|---------------------|
| A Review On Performance Of Electric Motor Vehicle  | Gagandeep Singh, Harshit Manchanda, Sunny Bhatia | Lecture Notes in Electrical Engineering   | 2021-22             |
| A Review Paper On Materials Used For Manufacturing Of Alloy Wheels                       | Abdullah Naim, Ritesh Kumar and Sunny Bhatia     | IOP Conference Series Materials Science and Engineering                             | 2021-22             |
| Development Of Vehicular Robots With Machine Learning Capability                         | Devendra Vashist & Himanshu Sengar               | Advances in Interdisciplinary Engineering "Lecture Notes in Mechanical Engineering" | 2021-22             |
| Effect Of Ageing On Emission Levels Of A Gasoline Vehicle A Case Study In Indian Context | Devendra Vashist & Manu Bindra                   | Advances in Fluid and Thermal Engineering "Lecture Notes in Mechanical Engineering" | 2021-22             |

|  |   |   |         |
|--|---|---|---------|
| Effect of the Content Of Silane-Functionalized Boron Carbide On The Mechanical And Wear Performance Of B4C Reinforced Epoxy Composites | Sunny Bhatia, Sabah Khan, Surjit Angra        | High Performance Polymers   | 2021-22 |
| Experimental Investigation of Surface Roughness in Electrical Discharge Machining of hybrid metal matrix composite                     | Gurpreet Singh Matharou                       | Lecture Notes in Mechanical Engineering Springer Nature                     | 2021-22 |
| Hybrid Metal Matrix Composite Development By Stir Casting Method And Environmental Concerns.   | Gurpreet Singh Matharou, Basanta Kumar Bhuyan | Advances in Engineering Materials (Lecture notes in Mechanical Engineering) | 2021-22 |
| Modeling And Combined Effect Analysis Of Electric Discharge Machining Process Using Response Surface Methodology                       | Gurpreet Singh Matharou, Basanta Kumar Bhuyan | Materials Today Proceedings   | 2021-22 |
| Parametric Analysis Of Electric Discharge Machining Of Hybrid Composite Materials  | Gurpreet Singh Matharou, Basanta Kumar Bhuyan | Advances in Engineering Materials   | 2021-22 |
| Technological Advancements For Reduced Charging Time Of Electric Vehicle Batteries   | Devendra Vashist & Abdullah Naim,             | Smart Structures in Energy Infrastructure                                   | 2021-22 |
| The Design and Development of Advanced Braking System with Microcontroller   | Gurpreet Singh Matharou                       | ECS Transactions IOP Science  | 2021-22 |

#### 9. Books Chapters: 2021-22

| Name of the teacher | Title of the book/chapters published | Title of the paper   | Title of the proceedings of the conference |
|---------------------|--------------------------------------|--|--|
| Devendra Vashist    | NA                                   | Effect of Ageing on Emission Levels of a Gasoline Vehicle A Case Study in Indian Context | Lecture Notes in Mechanical Engineering    |

|                         |   |  |   |
|-------------------------|---|--|---|
| Devendra Vashist        | NA  | Development of Vehicular Robots With Machine Learning Capability   | Lecture Notes in Mechanical Engineering                 |
| Devendra Vashist        | NA  | Effect of ageing on emission levels of a gasoline vehicle a case study in Indian context                         | Advances in Fluid and Thermal Engineering               |
| Gurpreet Singh Matharou | NA  | Hybrid Metal Matrix Composite Development by Stir Casting and Environmental Concerns                             | Lecture Notes in Mechanical Engineering                 |
| Gurpreet Singh Matharou | NA  | Parametric Analysis of Electric Discharge Machining of Hybrid Composite Materials                                | Lecture Notes in Mechanical Engineering                 |
| Gurpreet Singh Matharou | NA  | Hybrid Metal Matrix Composite Development by Stir Casting and Environmental Concerns                             | Advances in Engineering Materials                       |
| Gurpreet Singh Matharou | Transforming Management Using Artificial Intelligence Techniques, Chapter 7 Contemporary Trends in Education Transformation Using Artificial Intelligence | NA   | NA  |
| Nitin Kumar Waghmare    | NA  | Mechanical properties of epoxy hybrid composites reinforced with agave fiber and zinc powder                     | AIP publishing conference                               |
| Sunny Bhatia            | NA  | A review paper on materials used for manufacturing of alloy wheels   | IOP Conference Series Materials Science and Engineering |
| Gurpreet Singh Matharou | Advances in Materials and Material Technology   | Experimental investigation of surface roughness in electric discharge machining of Hybrid Metal Matrix Composite | Lecture Notes in Mechanical Engineering                 |
| Gurpreet Singh Matharou | NA  | Significant Complications declining usage of Electrical Discharge Machining Process                              | IOP Conference Series: Material Science and Engineering |
| Gurpreet Singh Matharou | Selection and Fabrication of HMMC (AL6063-SIC-B4C-MG), Recent Developments in Nanofibers Research   | NA   | NA  |

### 3. DEPARTMENT OF BIOTECHNOLOGY

#### i) Thrust Areas of the Department:

- Drug Discovery Development
- Bioinformatics
- Agricultural Biotechnology
- Industrial Biotechnology
- Plant Biotechnology
- Microbial technology

#### ii) Academic Achievements

##### a. Student's Publications: 2021-22

| Title of paper  | Name of all the author(s)  | Student Authors   | Journal/Conference/Book Title   |
|---|--|---|---|
| Mapping Protein Interactions Between Rabies Virus And Its Human Host                | Kajal Singla, Kartik Jatwani, Abhilansh Pandey, Dhvani Malik, Priyanka Chauhan, Mamta Rajbhar, Anjali Singh and Kapila Kumar | Kajal Singla, Kartik Jatwani, Abhilansh Pandey, Dhvani Malik, Priyanka Chauhan, Mamta Rajbhar, Anjali Singh | International Journal of Pharmaceutical Sciences and Research (IJPSR) |
| Phytochemical Properties and Pharmacological Role of Plants: Secondary Metabolites. | Bhupesh Kaushik, Jatin Sharma, KeshavYadav, Prithik Kumar and Abhilasha Shourie  | Bhupesh Kaushik, Jatin Sharma, KeshavYadav, Prithik Kumar   | Biosci Biotech Res Asia   |
| Hybridoma Technology; Advancements, Clinical Significance, And Future Aspects       | Sanchita Mitra and Pushpa C. Tomar   | Sanchita Mitra  | Journal of Genetic Engineering and Biotechnology                      |

##### b. Student progression to higher education during the year: 2021-22

| Name of student(s) enrolled for higher education | Graduated from which Programme | Name of institution joined | Admitted to (Name of Programme) |
|--|--------------------------------|----------------------------|---------------------------------|
| Alokita Tanwar                                   | B.Tech-Biotechnology           | University of Glasgow, UK  | M.Sc.in Biomedical Sciences     |
| Deepti Jamwal                                    | B.Tech-Biotechnology           | GGSIU, Dwarka, N. delhi    | M. Tech Biotechnology           |

|                  |                      |   |   |
|------------------|----------------------|---|---|
| Dhwani Malik     | B.Tech-Biotechnology | Delhi School of Business, Vivekananda Institute of Professional Studies | PGDM/MBA                                      |
| Kartik Jatwani   | B.Tech-Biotechnology | Dresden University of Technology, Germany                               | Masters in Regenerative Biology and Medicine  |
| Simran Jeet Kaur | B.Tech-Biotechnology | Universität Würzburg, Sanderring, Germany                               | Master of science, Translational Neuroscience |
| Abhilansh Pandey | B.Tech-Biotechnology | Georgia Tech, Emory University, USA                                     | Masters in Biomedical Engineering             |
| Rama Karn        | M.Tech-Biotechnology | IIT-Guwahati, Assam, India  | PhD   |

**c. Students benefited by career counseling and guidance for competitive. Examinations: 2021-22**

| Activity Description                                    | No. of Participants |
|---|---------------------|
| "Importance of Science Communication" for Job prospects | 38                  |

**d. Faculty members: Awards & Recognitions:2021-22**

| Name of Faculty Member | Awards/Recognition   |
|------------------------|--|
| Kapila Kumar           | Recognition as Primary Evaluator in Toycathon-2021 (16-12-2021)  |
| Kapila Kumar           | Recognition as Invited reviewer for paper titled "Association between the interferon-induced trans-membrane protein 3 gene rs34481144/ rs12252 haplotypes and Covid-19" for the Journal "Current Research in Virological Science"(22-11-2021)                        |
| Kapila Kumar           | Awarded as Outstanding Woman Researcher in Molecular Biology(05-03-2022)   |
| Kapila Kumar           | Appreciation for winning the First Prize for the team at Anveshan 2022, National science convention (27-03-2022 to 28-03-2022)   |
| Nidhi Didwania         | Recognition as Convener in Technical Session-6: Public-Private partnership (PPP) and IPR issues" "National E- Conference on Biotic Stress Management Strategies for Achieving Sustainable Crop Production and Climate Resilience.(19-05-2022 to 22-05-2022)          |
| Nidhi Didwania         | Recognition as Invited Speaker in "National E- Conference on Biotic Stress Management Strategies for Achieving Sustainable Crop Production and Climate Resilience. Technical Session-6, Role of Public-Private Partnership in agribusiness(19-05-2022 to 22-05-2022) |
| Nidhi Didwania         | Certificate of Award -Elite + Silver Certification for Online SWAYAM-NPTEL Certificate Course: Environmental Impact Assessment (01-01-2022 to 30-04-2022)  |
| Nidhi Didwania         | Recognition on publication of International (US) Patent: Bio-pesticide formulation (03-02-2022)  |

**e. FDPs attended by faculty members:2021-22**

| Name of the Faculty member | Title of FDP/Workshop/Conference Attended | Date from | Date to |
|----------------------------|---|-----------|---------|
|----------------------------|---|-----------|---------|

|                     |   |            |            |
|---------------------|---|------------|------------|
| Abhilasha Shourie   | Plastic Waste Management: Challenges & opportunities" at Central Institute of Petrochemicals Engineering & Technology | 23-08-2021 | 27-08-2021 |
| Abhilasha Shourie   | STC on Water Resource Management through ICT  | 07-03-2022 | 11-03-2022 |
| Abhilasha Shourie   | AICTE FDP on Intellectual Property Rights & Patenting In India  | 13-06-2022 | 17-06-2022 |
| Jayant Maini        | FDP on Project based learning:International Prospective   | 04-06-2022 | 09-06-2022 |
| Jayant Maini        | AICTE FDP on Intellectual Property Rights & Patenting In India  | 13-06-2022 | 17-06-2022 |
| Kanchan Bhardwaj    | ATAL National FDP on Genome Engineering Technology  | 17-01-2022 | 21-02-2022 |
| Kanchan Bhardwaj    | AICTE FDP on Intellectual Property Rights & Patenting In India  | 13-06-2022 | 17-06-2022 |
| Kanchan Bhardwaj    | AICTE FDP on NEP 2020 Implementation in Higher Education Institutes   | 09-05-2022 | 13-05-2022 |
| Kanchan Bhardwaj    | AICTE FDP on OBE and NBA Accreditation  | 23-05-2022 | 27-05-2022 |
| Kanchan Bhardwaj    | FDP on Effective Academic Practices   | 10-01-2022 | 14-01-2022 |
| Kapila Kumar        | FDP on Computer Aided Drug Design (CADD)  | 24-07-2021 | 25-07-2021 |
| Kapila Kumar        | AICTE FDP on Intellectual Property Rights & Patenting In India  | 13-06-2022 | 17-06-2022 |
| Krishna Priya Ganti | AICTE FDP on Intellectual Property Rights & Patenting In India  | 13-06-2022 | 17-06-2022 |
| Krishna Priya Ganti | AICTE FDP on Organic Farming and Organic Food Marketing   | 25-07-2022 | 29-07-2022 |
| Krishna Priya Ganti | AICTE FDP Business Startups and Innovation Management   | 06-06-2022 | 10-06-2022 |
| Manu Solanki        | STC on Water Resource Management through ICT  | 07-03-2022 | 11-03-2022 |
| Manu Solanki        | NPTEL AICTE Course on Nanotechnology in Agriculture   | 01-02-2022 | 30-04-2022 |
| Kapila Kumar        | AICTE FDP on Intellectual Property Rights & Patenting In India  | 13-06-2022 | 17-06-2022 |
| Manu Solanki        | AICTE FDP on Intellectual Property Rights & Patenting In India  | 13-06-2022 | 17-06-2022 |
| Nidhi Didwania      | NPTEL AICTE Course on Environmental Impact Assessment   | 01-01-2022 | 24-04-2022 |
| Nidhi Didwania      | AICTE FDP on Intellectual Property Rights & Patenting in India  | 13-06-2022 | 17-06-2022 |
| Nidhi Didwania      | STC on Climate Change Disaster Management and Sustainable   | 25-04-2022 | 29-04-2022 |

|                   |   |            |            |
|-------------------|---|------------|------------|
|                   | Development through ICT   |            |            |
| Nidhi Didwania    | STC on Water Resource Management through ICT                        | 07-03-2022 | 11-03-2022 |
| Preeti Nandal     | AICTE FDP on Intellectual Property Rights & Patenting In India      | 13-06-2022 | 17-06-2022 |
| Rashmi Rameshwari | Genome Engineering for Environment                                  | 23-08-2021 | 27-08-2021 |
| Rashmi Rameshwari | Computational Synthetic and Systems Biology                         | 26-07-2021 | 30-07-2021 |
| Rashmi Rameshwari | FDP on Computational Biology(Interdisciplinary)                     | 13-06-2022 | 22-06-2022 |
| Sabiha Imran      | AICTE FDP on Intellectual Property Rights & Patenting In India      | 13-06-2022 | 17-06-2022 |
| Sabiha Imran      | AICTE FDP Business Startups and Innovation Management               | 06-06-2022 | 10-06-2022 |
| Sabiha Imran      | AICTE FDP on NEP 2020 Implementation on Higher Education Institutes | 09-05-2022 | 13-05-2022 |
| Sabiha Imran      | STC on Water Resource Management through ICT                        | 07-03-2022 | 11-03-2022 |

#### f. Event Organised: 2021-22

| Title   | From       | To         |
|---|------------|------------|
| Short Term Training Programme/FDP on 'Intellectual Property Rights & Patenting in India' in collaboration with NITTR Chandigarh | 13-06-2022 | 17-06-2022 |

#### g. Faculty Research Papers: 2021-22

| Title of paper  | Name of the author/s                                   | Name of journal   | Year of publication |
|---|--|---|---------------------|
| A Comparative Profile Of Bactericidal Action Of A Partially Purified Bacteriocin From Lactic Acid Bacteria With Antibiotics | KLR Bonhi and Sabiha Imran                             | Malaysian Journal of Microbiology                           | 2021-22             |
| An In-Silico Approach for Analysing the interplay of Hepatitis B viral X protein with Human Adaptin protein.                | Prachie Sharma, Kamal Rawal, Kapila Kumar              | Journal of Research in Pharmacy                             | 2021-22             |
| Assessment Of Different Aspects Of Hepatitis B Viral Lymphtropism Using Deep Curation                                       | Prachie Sharma, Kamal Rawal, Kapila Kumar              | F 1000 Research   | 2021-22             |
| Choline Oxidase: An Enzyme of Immense Industrial Potential.   | Sonia Kaushik, Rashmi Rameshwari, Shilpa S Chaudaonkar | Asia-Pacific Journal Of Molecular Biology And Biotechnology | 2021-22             |

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|---|---|---|---------|
| COVID-19 pandemic in India: First wave v/s Second Wave, pp. (S228-S235)   | Rashmi Rameshwari, Devendra Kumar Verma, Meenu Agarwal  | Ecology, Environment and Conservation                         | 2021-22 |
| Current Status Of Rice Crop Omics Applications To Challenges  | Simran Jeet Kaur, Shivam Bhardwaj, Rashmi Rameshwari  | The International Journal of Pharma and Bio Sciences          | 2021-22 |
| Diabetic Neuropathy An Insight On The Transition From Synthetic Drugs To Herbal Therapies.  | Komal Arora, Pushpa C. Tomar , Vandana Mohan  | Journal of Diabetes and Metabolic Disorders                   | 2021-22 |
| Effect Of Metal Nanoparticles On Microbial Community Shift And Syntrophic Metabolism During Anaerobic Digestion Of Azolla Microphylla       | Manpreet Kaur, Prakash. C. Sahoo, Manoj Kumar, Sarita Sachdeva, S.K.Puri  | Journal of Environmental Chemical Engineering                 | 2021-22 |
| Fungal Diversity and its Role in Mycoremediation  | Abhilasha Shourie and U. Vijayalakshmi  | Geomicrobiology   | 2021-22 |
| Hybridoma Technology; Advancements, Clinical Significance, And Future Aspects   | Sanchita Mitra and Pushpa C. Tomar  | Journal of Genetic Engineering and Biotechnology              | 2021-22 |
| Insights into the Human Gut Virome by Sampling a Population from the Indian Subcontinent  | Kanchan Bhardwaj, Anjali Gargc, Abhay Deep Pandeya, Himani Sharma, Manish Kumarc and Sudhanshu Vratia                       | Journal of General Virology                                   | 2021-22 |
| Isolation Screening And Molecular Characterization Of Zinc Solubilizing Bacteria And Their Effect On The Growth Of Wheat (Triticum Aestivum | Vandana Nandal & Manu Solanki   | Asia Pacific Journal of Molecular Biology and Biotechnology.  | 2021-22 |
| Mapping Protein Interactions Between Rabies Virus And Its Human Host  | Kajal Singla, Kartik Jatwani, Abhilansh Pandey, Dhvani Dhvani, Priyanka Chauhan, Mamta Rajbhar, Anjaliu Singh, Kapila Kumar | International Journal of Pharmaceutical Sciences and Research | 2021-22 |
| Microbial Consortium: An eco-friendly approach against Alternaria brassicae in Indian Mustard   | Surbhi Gupta, Nidhi Didwania and Dinesh Singh Scholar   | Indian Phytopathology   | 2021-22 |
| Optimization Of A- Amylase Production From Bacillus Amyloliquefaciens Using Taguchi Method  | Pankhuri Sharma and Shilpa Chapadgaonkar  | Bioscience Biotechnology Research Asia                        | 2021-22 |

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|--|---|--|---------|
| Phyto-Chemical Analysis Of Various Mustard Seeds In Different Solvent Extracts.  | Aishwarya, Varishth Khanna, Pushpa C. Tomar, Charu Rajpal                     | International Journal of Botany Studies.                 | 2021-22 |
| Phytochemical Properties And Pharmacological Role Of Plants Secondary Metabolites  | Bhupesh Kaushik, Jatin Sharma, Keshav Yadav, Prithik Kumar, Abhilasha Shourie | Biosciences, Biotechnology Research Asia                 | 2021-22 |
| Polyaniline/Carboxymethyl Guar Gum Nanocomposites: As Biodegradable Conductive Film  | Jagram Meena, Sudhir Kumar Verma, Rashmi Rameshwari and Devendra Kumar Verma  | Rasayan Journal  | 2021-22 |
| Probiotics And Management Of Autism Spectrum Disorders   | Kajal Singla, AbhinobBarual& Shilpa Chapadgaonkar                             | Journal of microbiology, biotechnology and food sciences | 2021-22 |
| Production Of Thermo-Alkali Stable Xylanase From Bacillus Licheniformis Isolated From Natural Hot Water Geyser               | Girisha Malhotra & Shilpa Chapadgaonkar                                       | Journal of Microscopy and Ultrastructure                 | 2021-22 |
| Response Of Cadaverine On The Protein Profiling Of Cultured Tissues Of Brassica Juncea (Rh-30) Under Multiple Stress         | Komal Arora, Pushpa C. Tomar  | Journal of microbiology, biotechnology and food sciences | 2021-22 |
| Review 3: "Biochemical characterization of emerging SARS-CoV-2 Nsp15 Endoribonuclease Variants"                              | Kanchan Bhardwaj  | Rapid Reviews COVID 19                                   | 2021-22 |
| SIN-3 functions through multi-protein interaction to regulate apoptosis, autophagy, and longevity in Caenorhabditis elegans. | Konwar C, Maini J, Kohli S, Brahmachari V, Saluja D.                          | Scientific Reports                                       | 2021-22 |
| Status Of Zinc In The Soils Of Faridabad District  | Vandana Nandal & Manu Solanki   | Ecology, Environment and Conservation                    | 2021-22 |
| Study On The Agaricus Bisporus To Enhance The Immunity Against Covid-19  | Srishti Tanwar, Anjali Kumari and *Sabiha Imran                               | Journal of Emerging Technologies and Innovative Research | 2021-22 |
| Synthesis, Characterization And Applications Of Chitosan Based Metallic Nanoparticles A Review                               | Verma , D. K., Malik , R. , Meena, J. , & Rameshwari, R                       | Journal of Applied and Natural Science                   | 2021-22 |
| The impact of SARS-CoV 2 on the sudden onset of Mucormycosis in the  | Shakila Mahesh  | Journal of Family medicine and Primary care              | 2021-22 |

|   |                                 |  |         |
|---|---------------------------------|--|---------|
| Indiansubcontinent- A Review              |                                 |  |         |
| The Zn As A Vital Micronutrient In Plants | Vandana Nandal & Manu Solanki   | Journal of microbiology, biotechnology and food sciences | 2021-22 |
| Zn As A Vital Micronutrient In Plants.    | Vandana Nandal and Manu Solanki | Journal of microbiology, biotechnology and food sciences | 2021-22 |

#### h. Books Chapters: 2021-22

| Name of the teacher | Title of the book/ chapters published  | Title of the paper | Title of the proceedings of the conference                           |
|---------------------|--|--------------------|--|
| Abhilasha Shourie   | Bioactive compounds from microalgae  | NA                 | An Integration of Phycoremediation Processes in Wastewater Treatment |
| Abhilasha Shourie   | Bioactive compounds from microalgae-An Integration of Phycoremediation Processes in Wastewater Treatment               | NA                 | NA   |
| Abhilasha Shourie   | Climate change impacts on plant-microbial interactions, Climate Change and the Microbiome, Sustenance of the Ecosphere | NA                 | NA   |
| Abhilasha Shourie   | Impact of Climate change on Soil Fertility-Climate Change and the Microbiome, Sustenance of the Ecosphere              | NA                 | NA   |

#### 4. DEPARTMENT OF CIVIL ENGINEERING

##### i) Thrust Areas of the Department:

- Environmental Engineering
- Construction Management
- Structural Engineering
- Transportation Engineering
- Geotechnical Engineering
- Air Quality Monitoring

##### ii) Academic Achievements

###### a. Student's Publications: 2021-22

| Title of paper  | Name of all the author/s                                       | Student Authors              | Journal/Conference/Book Title  |
|---|--|------------------------------|--|
| Improving the Resources Utility in Construction Sector for the Sustainable Development          | Nitin Kumar Garg, Rajat Negi, Sunita Bansal & Rajender Kumar   | Nitin Kumar Garg, Rajat Negi | Recent Trends in Industrial and Production Engineering, Lecture Notes in Mechanical Engineering    |
| Recent progress in the utilization of waste materials for road construction                     | Rahul Mehlawat ,Sadiqa Abbas ,Sonal Bhugra                     | Rahul Mehlawat               | International Journal of Engineering Research and Applications                                     |
| Review on Thermal Energy Efficiency Using Gypsum Integrated Phase Change Materials in Buildings | Kavita Vaishnav, Gift Pon Lazarus, Sunita Bansal & Yaman Hooda | Kavita Vaishnav              | Advances in Construction Materials and Sustainable Environment, Lecture Notes in Civil Engineering |
| Micro Simulation Modelling of an Urban Corridor in PTV Vissim                                   | Swati Goyal, Sonal Bhugra                                      | Swati Goyal                  | International Journal of creative research thoughts (IJCRT)  |
| Traffic congestion analysis using PTB VISSIM Software   | Anuj Kumar Atrish , Gaurav and Sonal Bhugra                    | Anuj Kumar Atrish and Gaurav | Ijrasnet Journal For Research in Applied Science and Engineering Technology                        |
| Effect of High-Rise buildings on urban land use in Kabul  | Hamidullah Azimi, Sunita Bansal, Dr. Tanmay Gupta              | Hamidullah Azimi             | High Technology Letters  |
| Seismic-Based Comparative Analysis of Existing Structures using P - $\Delta$ Effect             | Shivam Sibbal, Animesh Yadav and Yaman Hooda                   | Shivam Sibbal, Animesh Yadav | Advances in 21st Century Human Settlements   |

|   |  |   |  |
|---|--|---|--|
| Comparative Assessment of Vulnerability through Wind Analysis for a Multi-Storied Building.   | Jitesh Aggarwal, Gurdit Singh and HaobamDerit Singh              | Jitesh Aggarwal, Gurdit Singh                     | Advances in 21st Century Human Settlements                     |
| Experimental Study on the Strength Parameters of Self Compacting Concrete Reinforced with Carbon Fibre                                  | Vikas Choudhary and HaobamDerit Singh                            | Vikas Choudhary                                   | Materials Today: Proceedings                                   |
| Comparative Analysis of Transmission Line Towers for Angle Section and Square Hollow Section Structural Configuration in Indian Context | Rakshit Kumar and Yaman Hooda                                    | Rakshit Kumar                                     | Materials Today: Proceedings                                   |
| Utilization of Plastic Waste in Construction Industry in India – A Review   | Sunita Bansal, Shubham Singh Kushwah , Archit Garg, Karan Sharma | Shubham Singh Kushwah , Archit Garg, Karan Sharma | Materials Today: Proceedings                                   |
| Delay Assessment in Construction Projects Using Six Sigma in Indian Context   | Tanmay Swami and Yaman Hooda                                     | Tanmay Swami                                      | NICMAR Journal of Construction Management                      |
| Traffic Management and Intelligent Transportation Systems (ITS)   | Anuj Kumar Atrish and Sonal Bhugra                               | Anuj Kumar Atrish                                 | Technological Prospects and Social Applications of Society 5.0 |

**b. Students benefited by career counseling and guidance for competitive Examinations: 2021-22**

| Activity Description  | No. of Participants |
|---|---------------------|
| Expert Talk on "Strategy to crack GATE and other Competitive Exams" | 41                  |
| Career Prospects of Civil Engineering                               | 27                  |

**c. Student progression to higher education during the year: 2021-22**

| Name of students enrolled for higher education | Graduated from which Programme | Name of institution joined  | Admitted to (Name of Programme)   |
|--|--------------------------------|---|-----------------------------------|
| Jatin Chaudhary                                | B. Tech-Civil Engineering      | Great Lakes. Chennai Campus   | PGD-Management                    |
| Lakshay Mongia                                 | B. Tech -Civil Engineering     | Manav Rachna International Institute of Research and Studies, Faridabad | M. Tech (Construction Management) |
| Gurdit Singh                                   | B. Tech-Civil Engineering      | Algoma University   | Project Management program        |
| Sagar Malik                                    | M.Tech-Civil Engineering       | Manav Rachna International Institute of Research and Studies,Haryana    | Ph.D                              |

**d. Faculty members: Awards & Recognitions: 2021-22**

| Name of Faculty Member | Awards/Recognition   |
|------------------------|--|
| Yaman Hooda            | Certificate of Award for Elite + Silver certification for completing the course "Design of Reinforced Concrete Structures" (July-October 2021)                         |
| Sadiqa Abbas           | Recognition as Eminent Speaker at International Conference on Innovative & Sustainable Civil Engineering Practices (26-08-2021-27-08-2021)                             |
| Yaman Hooda            | Recognition for publishing patent: Practices for Measuring Business Success in Construction Engineering(14-07-2022)  |
| Yaman Hooda            | 5 Stars – Excellent Performance in Self – Assessment under the specialization of Civil Engineering Materials (20-08-2022)  |
| Anjali Gupta           | Recognition as Invited Session Chair at International Conference on Environmental Concerns & Its Remediation (18-10-2021 to 22-10-2021)                                |
| Anjali Gupta           | Recognition as Session Chair for National Conference on Recent Trends in Civil and Environmental Engineering (04-02-2022)  |
| Anjali Gupta           | Guest speaker for "Ground Improvement Techniques for Highway construction" (23-05-2022)  |
| Anjali Gupta           | Recognition for publishing patent: A System and a process for recycling waste fabrics (13-04-2022)   |
| Sadiqa Abbas           | Recognition as invited Session Chair: International Conference on Sustainable Development and Recent trends in Civil Engineering-ICSDRT-2022) 04-01-2022 to 05-01-2022 |
| Sadiqa Abbas           | Member District Water Resource Planning Committee 14-01-2022   |
| Sunita Bansal          | GEM Certified Professional (GEM CP) (08-04-2022)   |

**e. FDPs attended by Faculty Members: 2021-22**

| Name of Faculty Member | Title   | Date from  | Date to    |
|------------------------|---|------------|------------|
| Anjali Gupta           | ATAL FDP Emerging Trends in Geotechnical Engineering                        | 06-09-2021 | 10-09-2021 |
| Anjali Gupta           | ATAL FDP Contemporary Advances in Sustainable and Integrated Infrastructure | 02-08-2021 | 06-08-2021 |

|                   |  |            |            |
|-------------------|--|------------|------------|
| Anjali Gupta      | ATAL AICTE FDP on Current Trends and Future Prospects in Data Science  | 10-01-2022 | 14-01-2022 |
| Anjali Gupta      | AICTE Sponsored STTP on Neoteric Developments in Solid Waste Management  | 21-03-2022 | 25-03-2022 |
| HaobamDerit Singh | ATAL AICTE Faculty Development Programme on Advances in Earthquake Safe Design and Construction Practice   | 07-02-2022 | 11-02-2022 |
| HaobamDerit Singh | AICTE recognised STC on Water Resource Management  | 07-03-2022 | 11-03-2022 |
| Sadiqa Abbas      | ATAL FDP on Smart Cities   | 12-10-2021 | 16-10-2021 |
| Sadiqa Abbas      | ATAL FDP Redemption from Plastic Pollution:Indian railways   | 05-07-2021 | 09-07-2021 |
| Sadiqa Abbas      | ATAL FDP Project Management in Construction Technology   | 26-07-2021 | 30-07-2021 |
| Sadiqa Abbas      | Faculty Development Programme on Effective Academic Practices  | 10-01-2022 | 14-01-2022 |
| Sonal Bhugra      | ATAL FDP Redemption from Plastic Pollution:Indian railways   | 05-07-2021 | 09-07-2021 |
| Sonal Bhugra      | ATAL FDP Project Management in Construction Technology   | 26-07-2021 | 30-07-2021 |
| Sonal Bhugra      | FDP on MATLAB for Engineering Applications recognised by AICTE   | 30-05-2022 | 03-06-2022 |
| Sonal Bhugra      | AICTE recognised STC on Climate Change, Disaster Management and Sustainable Development  | 25-04-2022 | 29-04-2022 |
| Sunita Bansal     | ATAL FDP Project Management in Construction Technology   | 26-07-2021 | 30-07-2021 |
| Sunita Bansal     | CMI Level 5 certification in Management and Leadership under AICTE-UK India Education and Research Initiative(UKIERI) 2020-21 Technical Leadership Programme | 01-07-2021 | 01-09-2021 |
| Sunita Bansal     | ATAL AICTE Faculty Development Programme on Advances in Earthquake Safe Design and Construction Practice   | 07-02-2022 | 11-02-2022 |
| Sunita Bansal     | AICTE recognised STC on Water Resource Management  | 07-03-2022 | 11-03-2022 |
| Yaman Hooda       | Faculty Development Programme on Green Energy Sources and Clean Technologies   | 07-06-2021 | 11-06-2021 |
| Yaman Hooda       | Webinar Series on Bridge Deck Erection Technology – Best International Practices   | 29-05-2021 | 03-07-2021 |
| Yaman Hooda       | FDP on Environment Protection and Pollution Mitigation for Sustainable Development   | 05-07-2021 | 09-07-2021 |
| Yaman Hooda       | ISTP on Structural Health Monitoring, Retrofitting and Rehabilitation  | 12-07-2021 | 16-07-2021 |
| Yaman Hooda       | ATAL AICTE Faculty Development Programme on Advances in Earthquake Safe Design and Construction Practice   | 07-02-2022 | 11-02-2022 |
| Yaman Hooda       | AICTE recognised STC on Climate Change, Disaster Management and Sustainable Development  | 25-04-2022 | 29-04-2022 |

**g. Events Organised: 2021-22**

| Title  | From Date  | To Date    |
|--|------------|------------|
| ATAL, AICTE Faculty Development Program on Contemporary Advances in Sustainable and Integrated Infrastructure- Professional Development Program for teaching staff | 02-08-2021 | 06-08-2021 |
| One – Week Online Faculty Development Program on Progression to Smart Buildings in Indian Context  | 10-01-2022 | 14-01-2022 |

**h. Faculty Research Papers: 2021-22**

| Title of paper  | Name of the author/s   | Name of Journal  | Year of publications |
|---|--|--|----------------------|
| Benchmarking Civil Engineering Education In India   | Sunita Bansal, Anjali Gupta                                      | TRACE  | 2021-22              |
| Improving The Resources Utility In Construction Sector For The Sustainable Development                                    | Sunita Bansal  | 1st International Conference on Construction Materials and Environment | 2021-22              |
| Micro Simulation Modelling Of An Urban Corridor In PtvVissim  | Swati Goyal, Sonal Bhugra  | International Journal of creative research thoughts (IJCRT)            | 2021-22              |
| Parametric Strength Of Sustainable Concrete Using Fly Ash,Ggbs And Recycled Aggregates As Per Taguchi'S Approach          | Yaman Hooda, Sunita Bansal and Anjali Gupta.                     | 1st International Conference on Construction Materials and Environment | 2021-22              |
| Physico-Chemical Characterization Of Stabilized Msw Of An Okhla Landfill  | Sonal saluja; arun Gaur; Kafeel Ahmad                            | Materials today-Proceedings  | 2021-22              |
| Ranking Of Stabilizer To Stabilize/Solidify Dredged Soil As A Highway Construction Material                               | Anjali Gupta; Srijit Biswas; V.K.Arora                           | Materials today-Proceedings  | 2021-22              |
| Real-Time CharacterizaTionAndSourceApportionmentNt Of FineParticulateMatter In The Delhi Megacity Area During Late Winter | Shashi Tiwari  | Science of the Total Environment(STOTEN)                               | 2021-22              |
| Recent Progress In The Utilization Of Waste Materials For Road Construction   | Rahul Mehlawat ,Sadiqa Abbas ,Sonal Bhugra                       | International Journal of Engineering Research and Applications         | 2021-22              |
| Review On Thermal Energy Efficiency Using Gypsum Integrated Phase Change Materials In Buildings                           | Kavita Vaishnav, Gift Pon Lazarus, Sunita Bansal and Yaman Hooda | 1st International Conference on Construction Materials and Environment | 2021-22              |

|  |                                   |  |         |
|--|-----------------------------------|--|---------|
| Summer Vs Winter Air Pollutants Variation For Year 2019            | Shashi Tiwari                     | 1st International Conference on Construction Materials and Environment | 2021-22 |
| Sustainable Concrete With Substitute Materials A Review            | Sunita Bansal and Anjali Gupta    | TRACE  | 2021-22 |
| Valuation of Strength Properties of Gypsum Based PCM Cement Mortar | Gift Pon Lazarus D, Sunita Bansal | International Journal of Masonry Research and Innovation               | 2021-22 |

#### i. Books Chapters: 2021-22

| Name of the teacher | Title of the book/ chapters published | Title of the paper  | Title of the proceedings of the conference                     |
|---------------------|---------------------------------------|---|--|
| Anjali Gupta        | NA                                    | Parametric Strength of Sustainable Concrete Using Fly Ash, GGBS and Recycled Aggregates as Per Taguchi's Approach | Advances in Construction Materials and Sustainable Environment |
| Anjali Gupta        | NA                                    | Benchmarking Civil Engineering Education in India   | Lecture Notes in Civil Engineering                             |
| Anjali Gupta        | NA                                    | Sustainable Concrete with Substitute Materials A Review   | Lecture Notes in Civil Engineering                             |
| Anjali Gupta        | NA                                    | Utilization of Municipal Solid Waste from Okhla Landfill as a Highway Embankment Material                         | Lecture Notes in Civil Engineering                             |
| Gift Pon Lazarus    | NA                                    | Review on Thermal Energy Efficiency Using Gypsum Integrated Phase Change Materials in Buildings                   | Advances in Construction Materials and Sustainable Environment |
| Kavita Vaishnav     | NA                                    | Review on Thermal Energy Efficiency Using Gypsum Integrated Phase Change Materials in Buildings                   | Advances in Construction Materials and Sustainable Environment |
| Sadiqa Abbas        | NA                                    | A review on heavy metal contamination at mining sites and remedial techniques                                     | IOP Conference Series Earth and Environmental Science          |

|               |    |   |  |
|---------------|----|---|--|
| Sadiqa Abbas  | NA | Bioremediation of Industrial Wastewater A Review  | IOP Conference Series Earth and Environmental Science          |
| Sadiqa Abbas  | NA | Assessment of Pavement Surface Quality using TOPSIS Method  | IOP Conference Series Earth and Environmental Science          |
| Sonal Bhugra  | NA | A review on heavy metal contamination at mining sites and remedial techniques                                     | IOP Conference Series Earth and Environmental Science          |
| Sonal Bhugra  | NA | Bioremediation of Industrial Wastewater A Review  | IOP Conference Series Earth and Environmental Science          |
| Sonal Bhugra  | NA | Assessment of Pavement Surface Quality using TOPSIS Method  | IOP Conference Series Earth and Environmental Science          |
| Sunita Bansal | NA | Parametric Strength of Sustainable Concrete Using Fly Ash, GGBS and Recycled Aggregates as Per Taguchi's Approach | Advances in Construction Materials and Sustainable Environment |
| Sunita Bansal | NA | Review on Thermal Energy Efficiency Using Gypsum Integrated Phase Change Materials in Buildings                   | Advances in Construction Materials and Sustainable Environment |
| Sunita Bansal | NA | Benchmarking Civil Engineering Education in India   | Lecture Notes in Civil Engineering                             |
| Sunita Bansal | NA | Sustainable Concrete with Substitute Materials A Review   | Lecture Notes in Civil Engineering                             |
| Sunita Bansal | NA | Improving the resource utility in construction sector for sustainable development                                 | Lecture notes in Mechanical Engineering                        |
| Yaman Hooda   | NA | Parametric Strength of Sustainable Concrete Using Fly Ash, GGBS and Recycled Aggregates as Per Taguchi's Approach | Advances in Construction Materials and Sustainable Environment |
| Yaman Hooda   | NA | Review on Thermal Energy Efficiency Using Gypsum Integrated Phase Change Materials in Buildings                   | Advances in Construction Materials and Sustainable Environment |

|               |  |   |    |
|---------------|--|---|----|
| Yaman Hooda   | IOT and Remote Sensing under Book "Computer Vision and Internet of Things" | NA  | NA |
| Sunita Bansal | Applications of Computational Intelligence in Concrete Technology          | Prediction of Ultrasonic Pulse Velocity of Concrete | NA |

## 5. DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

### i) Thrust Areas of the Department

- Cloud Computing
- Artificial Intelligence and Natural Language
- Embedded Systems
- Machine Learning and Pattern Recognition
- Big Data Analytics (BDA)
- Graphics and Gaming: Augmented Reality
- Communication Networks, Virtualization and Autonomic Computing.
- Cyber Security and Forensics

### ii) Academic Achievements of the Department

#### a. Students Publications: 2021-22

| Title of paper  | Name of all the author/s  | Student Authors                                 | Journal/Conference/Book Title   |
|---|---|---|---|
| Risk Management by Grid Computing in AWS  | Vidushi Singhal, Kanika Khatri, Shefali Singhal                         | Vidushi Singhal, Kanika Khatri                  | International Conference on Machine Learning, Big Data, Cloud and Parallel Computing (COM-IT-CON) |
| Twitter Sentiment Analysis of India vs Pakistan T20 World Cup Match Using SVM Classifier    | Eashaan Sharma, Aryan gaur, Shefali Singhal                             | Eashaan Sharma, Aryan gaur,                     | International Conference on Machine Learning, Big Data, Cloud and Parallel Computing (COM-IT-CON) |
| Challenges and issues in energy efficient load balancing in the cloud computing environment | Unnati Tyagi, Vinay Bansal, Shefali Singhal, Tanvi Gupta                | Unnati Tyagi, Vinay Bansal,                     | International Conference on Machine Learning, Big Data, Cloud and Parallel Computing (COM-IT-CON) |
| Face Recognition Techniques and implementation  | Inshita Bamba, Yashika, Jahanvi Singh & Pronika Chawla                  | Inshita Bamba, Yashika, Jahanvi Singh           | IEMIS 2022  |
| A Hybrid approach on Tracking Criminal Investigation and Suspect Prediction                 | Mridul Wadhwa; Tushar Jha; Bishal Kumar Prasad; Abhishek Bajaj; Lakshya | Mridul Wadhwa; Tushar Jha; Bishal Kumar Prasad; | International Conference on Machine Learning, Big Data, Cloud and Parallel Computing (COM-IT-CON) |

|  |  |   |   |
|--|--|---|---|
|  | Nagpal,Deepa Bura  | Abhishek Bajaj; Lakshya Nagpal,                           |   |
| Intelligent approach for network intrusion detection system (NIDS) utilizing machine learning (ML) | Pronika, Shubham Sharma,Naincy Chamoli ,Disha Pahuja, Maanya Mocha | Shubham Sharma,Naincy Chamoli, Disha Pahuja, Maanya Mocha | Evolving Predictive Analytics in Healthcare: New AI techniques for real-time interventions                      |
| Social Engineering Attacks   | Yuvraj singh Saini, Pronika, Lucky Sharma, Sanidhya                | Yuvraj singh Saini, Lucky Sharma, Sanidhya                | Emerging Technologies in Data Mining and Information Security   |
| Natural Language Processing in Chatbots  | Sai Pranav, Mehar Mutreja, Devansh Punj, Pronika                   | Sai Pranav, Mehar Mutreja, Devansh Punj,                  | Emerging Technologies in Data Mining and Information Security   |
| Development of Android Applications and Its Security   | Haridhay Dham, Tushar , Kunal, Kritika Soni, Pronika               | Haridhay Dham, Tushar , Kunal,                            | Emerging Technologies in Data Mining and Information Security   |
| Security Issues and Vulnerabilities in Web Application   | Sitara, Kushagra Jha, Amit Balhara, Pronika                        | Sitara, Kushagra Jha, Amit Balhara                        | Next Generation of Internet of Things.  |
| A tour towards the security issues of Mobile Cloud Computing: A survey                             | Vaibhav Kalra, Dr.Poonam Tanwar, Ms Shweta Sharma                  | Vaibhav Kalra,  | Lecture Notes in Electrical Engineering.  |
| Fake News Detection Techniques: A Survey   | Sahitya Diwakar , Poonam Tanwar , Shweta Sharma                    | Sahitya Diwakar ,   | Lecture Notes in Electrical Engineering.  |
| Detecting Twitter Hate Speech Using Sentiment Analysis   | Arpita Tripathy, Dr.Poonam Tanwar,                                 | Arpita Tripathy   | Lecture Notes in Electrical Engineering.  |
| UI-UX Design Using User Centered Design (UCD) Method   | Gourisha, Dr. Poonam Tanwar, Ms. Shweta                            | Gourisha,   | Proceeding Of 2022 International Conference on Computer Communication and Informatics                           |
| Dark Web in Modern World Theoretical Perspective: A survey   | Hardik Gulati1, Dr. Poonam Tanwar, Ms Shweta                       | Hardik Gulati1  | Proceeding Of 2022 International Conference on Computer Communication and Informatics                           |
| Analysis Of Graphical Password Systems- Recognition Based GPS AND Recall Based GPS                 | Chansi Pal, Dr. Poonam Tanwar, Ms. Shweta                          | Chansi Pal,   | Proceeding Of 2022 International Conference on Computer Communication and Informatics                           |
| Dynamic Model to Predict The Flattening Of The Covid-19 Outbreak Curve In India                    | Ashutosh Sharma, Meeta Singh                                       | Ashutosh Sharma   | Proceeding of International Conference on Machine Learning, Big Data, Cloud and Parallel Computing (COM-IT-CON) |
| Digital Blockchain for Smart Surveillance in Resilient Cities                                      | Harsh Vardhan, Abhimanyu Pathania and Charu Virmani                | Harsh Vardhan, Abhimanyu Pathania                         | SSRN ELSEVIER   |
| Analysis of Hyperledger Fabric Framework using Caliper   | Krish Khattar, Dev Mittal,Shobha Tyagi                             | Krish Khattar, Dev Mittal                                 | JIMS 8i-International Journal of Information, Communication and Computing Technology (IJICT)                    |

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|---|--|---|---|
| Analysis and Comparison of Different Cryptographic Algorithms | Yash aggarwal, NittanKumar, VarunDevrani, Poonam Katyal      | Yash aggarwal, NittanKumar, Varun Devrani     | JIMS 8i-International Journal of Information, Communication and Computing Technology (IJICT)  |
| Personality Prediction through questionnaire                  | Siddharth Bhatt, Yash sharma, Priyanshu Karki, Poonam Katyal | Siddharth Bhatt, Yash sharma, Priyanshu Karki | International Journal Of Advance Research, Ideas And Innovations In Technology                |
| Smart Home Systems Based On The Internet Of Things            | Kaluva Srinivasa Reddy, Merugu Dheeraj Kumar, Dr. Vimlesh    | Kaluva Srinivasa Reddy, Merugu Dheeraj Kumar  | International Journal Of Creative Research Thoughts   |
| Medical diagnosis using artificial neural network             | Kunal Mittal, Yashwin Bansal, Shubham Garg, Savita           | Kunal Mittal, Yashwin Bansal, Shubham Garg    | International Conference on Robotics, Automation & Communication Engineering for Industry 4.0 |
| Network Security And Cryptography                             | Sachin kumar, Savita   | Sachin kumar                                  | International Conference on Robotics, Automation & Communication Engineering for Industry 4.0 |
| ""DEEP FAKES"" (Threat and Security: A Review)"               | Dolly, Divya, Suraj, Savita                                  | Dolly, Divya, Suraj                           | International Conference on Robotics, Automation & Communication Engineering for Industry 4.0 |
| Chatbots: Conversation Tool                                   | Yash Mangla, Nikita, Simple Sharma, Poonam Katyal            | Yash Mangla, Nikita                           | International Conference on Robotics, Automation & Communication Engineering for Industry 4.0 |
| Network Security And Cryptography                             | Gaurav Thakur, Saurav Thakur, Simple Sharma, Poonam Katyal   | Gaurav Thakur, Saurav Thakur                  | International Conference on Robotics, Automation & Communication Engineering for Industry 4.0 |
| Network Virtualization  | Gaurav Kumar, Mandeep Nishad, Simple Sharma, Poonam Katyal   | Gaurav Kumar, Mandeep Nishad                  | International Conference on Robotics, Automation & Communication Engineering for Industry 4.0 |
| Basics of Cybercrime  | Aditya, Anmol Mittal, Poonam Katyal, Simple Sharma           | Aditya, Anmol Mittal                          | International Conference on Robotics, Automation & Communication Engineering for Industry 4.0 |
| Feasibility Of Hyperloop                                      | Rahul Rawat, Varun Sharma, Simple Sharma, Poonam Katyal      | Rahul Rawat, Varun Sharma                     | International Conference on Robotics, Automation & Communication Engineering for Industry 4.0 |
| Stock Market Price Prediction using Machine Learning          | Samir Dutta, Md Zillur Rahman, Simple Sharma, Poonam Katyal  | Samir Dutta, Md Zillur Rahman                 | International Conference on Robotics, Automation & Communication Engineering for Industry 4.0 |
| Machine learning  | Anubhav Sharma, Robin, Simple Sharma, Poonam Katyal          | Anubhav Sharma, Robin                         | COM-IT-CON 2022   |
| Fifth Generation Networks - Issues                            | Udit Tayal, Suraj Bugadel,                                   | Udit Tayal, Suraj Bu                          | International Conference On Advancements In Electrical Electronics                            |

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| and Challenges   | Bhanu Gussain, Dr. Kamlesh Sharma, Dr. Suresh   | gadel, Bhanu Gussain   | Communication Computing And Automation, ICAECA 2021  |
| IoT Based Secured Home Automation System using NLP                             | Satender Kumar, Rohan Raj, Bipin Kumar, Dr. Kamlesh Sharma, Dr. Suresh                                      | Satender Kumar, Rohan Raj, Bipin Kumar                           | International Conference On Advancements In Electrical Electronics Communication Computing And Automation, ICAECA 2021 |
| Big Social Data Analytics  | Paresh Gupta, Shruti Khanduja, Suresh Kumar, Monika, Kamlesh sharma,  | Paresh Gupta, Shruti Khanduja, Suresh Kumar                      | International Conference on Soft Computing for Security Applications (ICSCS 2021)                                      |
| Evaluation of Eye Blink detection techniques for drowsy drivers                | Ananya Khurana, Vanshika Bohra, Yanshee Sharma, Suresh Kumar, Savita Sindhu, Monica Dass and Kamlesh Sharma | Ananya Khurana, Vanshika Bohra, Yanshee Sharma                   | Com-it-con 2022  |
| Comparative Analysis of Various Load Balancing Techniques in Cloud Environment | Shaik Muhammad Irfan, Harsh Bisen, Dheeraj Kumar, Hemant Rathore, Suresh Kumar and Kamlesh Sharma           | Shaik Muhammad Irfan, Harsh Bisen, Dheeraj Kumar, Hemant Rathore | Com-it-con 2022  |
| Novelty Detection in Text Document using Long Short Term Memory,               | Shalini Ranjan, Supriya P.Panda,  | Shalini Ranjan   | International Journal Of Engineering Research & Technology (Ijert),  |
| Cloud Security Challenges and Issues   | Poonam Kumari, Meeta Singh  | Poonam Kumari  | Review of International Geographical Education Online  |
| Different Challenges in Energy- Efficient Cloud Security: A Brief Review       | Poonam Kumari, Meeta Singh  | Poonam Kumari  | Research Developments in Science and Technology  |

**b. Students benefited by career counseling and guidance for competitive Examinations: 2021-22**

| Activity Description  | No. of Participants |
|---|---------------------|
| Career Guidance in Cloud System and Technologies                    | 102                 |
| Career Prospects in Artificial Intelligence: The Present and Future | 45                  |
| Session on Cyber Awareness Logout: Future Prospects                 | 97                  |
| GATE Classes for computer Science Engineering Students              | 80                  |

**c. Student progression to higher education during the year: 2021-22**

| Name of students enrolled for higher education | Graduated from which Programme | Name of institution joined | Admitted to (Name of Programme) |
|--|--------------------------------|----------------------------|---------------------------------|
| Amisha Seth                                    | B.Tech-Computer                | La Trobe University        | Master of Data Science          |

|                  |   |   |        |
|------------------|---|---|--------|
|                  | Science and Engineering                 |   |        |
| Rishika Kaim     | B.Tech-Computer Science and Engineering | DAV College for Women   | PGD    |
| Udit Oberai      | B.Tech-Computer Science and Engineering | Jaypee Inst of Information Tech.                                      | MBA    |
| Sunit Basak      | B.Tech-Computer Science and Engineering | RMIT University, Melbourne  | MIT    |
| Chitrangad Tomar | B.Tech-Computer Science and Engineering | Manav Rachna International Institute of Research and Studies, Haryana | M.Tech |
| Divyansh Dixit   | B.Tech-Computer Science and Engineering | Carl VON OSSIETZKY Universitat  | MS     |
| Ishakshi Gupta   | B.Tech-Computer Science and Engineering | Indira Gandhi Delhi Technical University for Women, Delhi             | M.Tech |
| Prayush Palak    | B.Tech-Computer Science and Engineering | Institute of Management Technology, Ghaziabad, U.P.                   | MBA    |
| Purna Tharua     | B.Tech-Computer Science and Engineering | Indira Gandhi Delhi Technical University for Women, Delhi             | M.Tech |
| Priyanka         | B.Tech-Computer Science and Engineering | Om Sterling Global University   | M.Tech |
| Ridhima Jain     | B.Tech-Computer Science and Engineering | Shiv Nadar University, Harana   | MBA    |
| Shubham Sharma   | B.Tech-Computer Science and Engineering | Georgian College, Ontario, Canada                                     | BDAT   |

#### d. Faculty members: Awards & Recognitions: 2021-22

| Name of Faculty Member | Awards/Recognition  |
|------------------------|---|
| Poonam Tanwar          | Recognition as Invited session Chair for 3rd International Conference on Smart and Intelligent Learning for Information Optimization (CONSILIO – 2021) (10-07-2021) |
| Poonam Tanwar          | Uttam Adhyapika Award (05-09-2021)  |
| Indu Kashyap           | Recognition as Invited Guest Speaker to deliver session on "Data Visualization with   |

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|                      | Tableau" at Maharaja Surajmal Institute, IP University. (29-06-2021)   |
| Meeta Singh          | Recognition for grant of patent: A System And Method For Predicting Secure And Safe Route For Women Using Navigation Maps (14-07-2021)                 |
| Poonam Chahal/Nandal | Recognition for grant of patent: A System And Method For Predicting Secure And Safe Route For Women Using Navigation Maps (14-07-2021)                 |
| Deepa Bura           | Recognition for grant of patent: A System And Method For Predicting Secure And Safe Route For Women Using Navigation Maps (14-07-2021)                 |
| Srishty Jindal       | Recognition for grant of patent: A System And Method For Predicting Secure And Safe Route For Women Using Navigation Maps(14-07-2021)                  |
| Mohit Chowdhary      | Recognition for publishing patent: A System And Method For Predicting Secure And Safe Route For Women Using Navigation Map (15-09-2021)                |
| Poonam Tanwar        | Certificate of Appreciation as a Coordinator for organizing AICTE Sponsored One Week FDP Programme on Industry 4.0(19-11-2021)                         |
| Poonam Tanwar        | Recognition for Patent Granted: Novel Covid Umbrella System And Method For Maintaining Physical Distance To Prevent Covid-19 Transmission (11-05-2022) |
| Poonam Tanwar        | Recognition as Editor for International Journal of Recent Patent on Engineering: Advances and Innovation in Digital Technologies (March 2022)          |
| Poonam Tanwar        | Certificate of Appreciation as an evaluator for AICTE Programme, Manthan (08-12-2021 to 10-12-2021)  |
| Kamlesh Sharma       | Active SPOC MRIIRS NPTEL (Jan-April 2022)  |
| Kamlesh Sharma       | Certificate of Appreciation as an evaluator for AICTE Programme, Manthan (08-12-2021 to 10-12-2021)  |
| Kamlesh Sharma       | Certificate of Jury, Toycathon 24-05-2022 to 26-06-2022  |
| Simple Sharma        | Certificate of Appreciation as an evaluator for MANTHAN, a National Level Hackathon  |
| Simple Sharma        | Contribution as Judge in Toycathon-2022, Physical Edition (24-05-2022)   |
| Rosy Madaan          | Editor for International Journal of Recent Patent on Engineering published in: Advances and Innovation in Digital Technologies March 2022              |
| Sunita Joshi         | Recognition for publishing patent: Machine Learning Analytics for Specialized stock trading (20-01-2022)   |
| Sunita Joshi         | Recognition for publishing patent: Intelligent Electricity Utilization Management System (15-02-2022)  |

#### e. FDPs attended by Faculty Members: 2021-22

| Name of Faculty Member | Title  | Date from  | Date to    |
|------------------------|--|------------|------------|
| Brijesh Kumar          | FDP on Emerging and Innovative approach in Management, IT and Communication in Teaching and Research | 09-06-2022 | 15-06-2022 |
| Charu Virmani          | FDP on Effective Teaching Learning using Social Media by recognised                                  | 06-06-2022 | 10-06-2022 |
| Deepa Bura             | STTP-Emerging Research Areas in BDA  | 26-07-2021 | 31-07-2021 |
| Deepa Bura             | ATAL FDP on Recent trends in Upstream Petroleum Technology   | 07-03-2022 | 11-03-2022 |
| Indu Kashyap           | ATAL Online FDP on Advanced Business Analytics   | 26-07-2021 | 30-07-2021 |
| Kamlesh Sharma         | ATAL FDP on Cyber Security Ethical Hacking and Cyber Crime   | 12-07-2021 | 16-07-2021 |

|                          |   |            |            |
|--------------------------|---|------------|------------|
| Kamlesh Sharma           | ATAL FDP on Research Trends in Computer Vision and Natural Language Processing  | 19-07-2021 | 23-07-2021 |
| Kamlesh Sharma           | AICTE on STC on Artificial Intelligence and Big Data Analysis for Electrical Engineering( In Collaboration With Math Works) through ICT | 07-03-2022 | 11-03-2022 |
| kritikasoni              | FDP on SciLab Programming Recognised by AICTE   | 25-04-2022 | 29-04-2022 |
| Madhumita Panda/Kathuria | FDP on Big Data Analytics   | 20-09-2021 | 24-09-2021 |
| Manisha Vashisht         | "ATAL - FDP on Industry 4.0: Digitization, Sensorization& Optimization"   | 15-11-2021 | 19-11-2021 |
| Manisha Vashisht         | FDP on "Leadership Mastery Through Self-Management"   | 27-12-2021 | 31-12-2021 |
| Manisha Vashisht         | Online Workshop on " Java + Android"  | 20-09-2021 | 25-09-2021 |
| Manisha Vashisht         | FDP on Shaping a Data Science Curriculum  | 09-08-2021 | 13-08-2021 |
| Manisha Vashisht         | FDP on 5G Communication & its Application recognised by AICTE   | 23-05-2022 | 27-05-2022 |
| Meeta Singh              | FDP-Internet of Things  | 13-09-2021 | 21-09-2021 |
| Meeta Singh              | STTP-Emerging Research Areas in BDA   | 26-07-2021 | 31-07-2021 |
| Meeta Singh              | ATAL FDP on Internet of Things recognised by AICTE  | 13-09-2021 | 17-09-2021 |
| Meeta Singh              | AICTE Sponsored Online STTP on Emerging Research Areas in Big Data Computing  | 26-07-2021 | 31-07-2021 |
| Monika Garg/Goyal        | "FDP on Industry 4.0: Digitization, Sensorization& Optimization"  | 15-11-2021 | 19-11-2021 |
| Monika Garg/Goyal        | FDP on Recent trends and advancements in ANN and Deep Learning for real time applications   | 20-12-2021 | 24-12-2021 |
| Monika Garg/Goyal        | FDP on Shaping a Data Science curriculum  | 09-08-2021 | 13-08-2021 |
| Monika Garg/Goyal        | ATAL FDP on Industry 4.0: Digitization, Sensorization& Optimization   | 15-11-2021 | 19-11-2021 |
| Monika Garg/Goyal        | ATAL FDP on Recent trends and advancements in ANN and Deep learning for Real time applications  | 20-12-2021 | 24-12-2021 |
| Monika Garg/Goyal        | AICTE STC on Artificial Intelligence and Big data Analysis for Electrical Engineering through ICT                                       | 07-03-2022 | 11-03-2022 |

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|-----------------------|--|------------|------------|
| Neha Batra / Gadhok   | FDP on Effective Teaching Learning using Social Media recognised by AICTE  | 06-06-2022 | 10-06-2022 |
| Neha Garg             | ATAL FDP on Wearable Devices   | 17-01-2022 | 21-02-2022 |
| Nitasha Soni          | "FDP on Industry 4.0: Digitization, Sensorization & Optimization"  | 15-11-2021 | 19-11-2021 |
| Nitasha soni          | International Entrepreneurship Summit AVLOKAN 2.0 2022 titled Beyond Sustainability – Trends in Regenerative, Socially Responsible, Community Ventures | 10-01-2022 | 22-01-2022 |
| Pinki Sagar           | STC on Artificial Intelligence and Big Data Analysis for Electrical Engineering (In Collaboration with MathWorks) through ICT recognised by AICTE      | 07-03-2022 | 11-03-2022 |
| Poonam Chahal/Nandlal | STTP-Emerging Research Areas in BDA  | 26-07-2021 | 31-07-2021 |
| Poonam Chahal/Nandlal | ATAL FDP on Internet of Things recognised by AICTE   | 13-9-2021  | 17-09-2021 |
| Poonam Chahal/Nandlal | AICTE Sponsored Online STTP on Emerging Research Areas in Big Data Computing   | 26-07-2021 | 31-07-2021 |
| Poonam Chahal/Nandlal | ATAL FDP on Data Science recognised by AICTE   | 21-02-2022 | 25-02-2022 |
| Poonam Katyal         | FDP on Leadership for Academicians Programme (LEAP) recognised by AICTE  | 13-06-2022 | 17-06-2022 |
| Poonam Tanwar         | ATAL FDP on Artificial intelligence  | 21-09-2021 | 25-09-2021 |
| Poonam Tanwar         | STC on Artificial Intelligence and Big Data Analysis for Electrical Engineering (In collaboration with Mathworks through ICT recognised by AICTE       | 07-03-2022 | 11-03-2022 |
| Prashant Dixit        | FDP on SciLab Programming Recognised by AICTE  | 25-04-2022 | 29-04-2022 |
| Prashant Dixit        | FDP on 5G Communication and its application recognised by AICTE  | 23-05-2022 | 27-05-2022 |
| Prashant Dixit        | One Week Virtual Workshop Full Stack Development   | 21-02-2022 | 26-02-2022 |
| Pronika Chawla        | "FDP on Industry 4.0: Digitization, Sensorization & Optimization"  | 15-11-2021 | 19-11-2021 |
| Pronika Chawla        | FDP on Shaping a Data Science curriculum   | 09-08-2021 | 13-08-2021 |
| Pronika Chawla        | International Conference on communication and Electronics Systems (ICCSE 2021)   | 08-07-2021 | 10-07-2021 |
| Pronika Chawla        | STTP on Big Data   | 08-08-2021 | 09-08-2021 |
| Pronika Chawla        | FDP on Effective Academic Practices  | 10-01-2022 | 14-01-2022 |

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|-----------------|---|------------|------------|
| Pronika Chawla  | FDP on 5G Communications and its Applications recognised by AICTE   | 23-05-2022 | 27-05-2022 |
| Pronika Chawla  | FDP on SciLab Programming Recognised by AICTE   | 25-04-2022 | 29-04-2022 |
| Pronika Chawla  | AICTE on STC on Artificial Intelligence and Big Data Analysis for Electrical Engineering( In Collaboration With Math Works) through ICT           | 07-03-2022 | 11-03-2022 |
| Pronika Chawla  | ATAL FDP on Industry 4.0: Digitization, Sensorization& Optimization   | 15-11-2021 | 19-11-2021 |
| Rachna Behl     | FDP on Effective Teaching Learning using Social Media recognised by AICTE   | 06-06-2022 | 10-06-2022 |
| Rachna Behl     | FDP on Intellectual Property Rights & Patenting in India recognised by AICTE  | 13-06-2022 | 17-06-2022 |
| Ranjeeta Mittal | FDP on 5G Communication and its Applications recognised by AICTE  | 23-05-2022 | 27-05-2022 |
| Rashima Mahajan | FDP on Data Science for IoT   | 09-10-2021 | 13-10-2021 |
| Rashima Mahajan | NPTEL FDP Certification on Accreditation and Outcome based learning   | 26-07-2021 | 25-09-2021 |
| Rashima Mahajan | NPTEL Certification Course on Accreditation and Outcome Based Learning  | 01-07-2021 | 01-09-2021 |
| Rashima Mahajan | FDP on NEP 2020 Implementation in Higher Education Institutes recognised by AICTE   | 09-05-2022 | 13-05-2022 |
| Rashima Mahajan | FDP on Leadership for Academicians Programme (LEAP) recognised by AICTE   | 13-06-2022 | 17-06-2022 |
| Romisha Arora   | FDP on SciLab Programming Recognised by AICTE   | 25-04-2022 | 29-04-2022 |
| Romisha Arora   | FDP on Leadership for Academicians Programme (LEAP) recognised by AICTE   | 13-06-2022 | 17-06-2022 |
| Romisha Arora   | FDP on SciLab Programming Recognised by AICTE   | 25-04-2022 | 29-04-2022 |
| Rosy Madaan     | "FDP on Industry 4.0: Digitization, Sensorization& Optimization"  | 15-11-2021 | 19-11-2021 |
| Rosy Madaan     | STC on Artificial Intelligence and Big Data Analysis for Electrical Engineering (in Collaboration with MathWorks) through ICT recognised by AICTE | 07-03-2022 | 11-03-2022 |
| Savita          | FDP on Design Thinking for Manufacturing Excellence   | 06-09-2021 | 10-09-2021 |
| Savita          | "FDP on Industry 4.0: Digitization, Sensorization& Optimization"  | 15-11-2021 | 19-11-2021 |



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| Sunita Joshi     | AICTE sponsored online STTP on BlockChain Technology & Networks                | 07-03-2022 | 11-03-2022 |
| Sunita Joshi     | Faculty Development Programme on Effective Academic Practices                  | 10-01-2022 | 14-01-2022 |
| Sunita Joshi     | FDP on STC on OBE and NBA Accreditation recognised by AICTE                    | 23-05-2022 | 27-05-2022 |
| Supriya P. Panda | FDP on Contemporary Advances in sustainable infrastructure                     | 02-08-2021 | 06-08-2021 |
| Supriya P. Panda | ATAL FDP on Contemporary Advances in sustainable and Integrated Infrastructure | 02-08-2021 | 06-08-2021 |
| Supriya P. Panda | ATAL Academy Online Elementary FDP on Quantum Artificial Intelligence          | 27-05-2021 | 28-05-2021 |
| Tapas Kumar      | Ten Days FDP on Applied Deep Learning in Healthcare Data Analysis              | 09-05-2022 | 23-05-2022 |
| Tapas Kumar      | FDP on Applied Machine learning, AI & its application using Python             | 18-04-2022 | 02-05-2022 |

#### f. Events Organised: 2021-22

| Title  | Date From  | Date To    |
|--|------------|------------|
| One-week online Faculty Development Program on Industry 4.0 Digitization, Sensorization & Optimization-Professional Development Program for teaching staff                           | 15-11-2021 | 19-11-2021 |
| International Conference on two-day IEEE International Conference on "Machine Learning, Big Data, Cloud & Parallel Computing: Trends, Perspectives, and Prospects" (Com-IT-Con-2022) | 26-05-2022 | 27-05-2022 |

#### g. Faculty Research Papers: 2021-22

| Title of paper   | Name of the author/s          | Name of journal   | Year of publication |
|--|-------------------------------|---|---------------------|
| A Review of Indian Soils and Detection of Key features of Fruits production using K-Means Clustering | Meenakshi, Deepa Bura         | NeuroQuantology   | 2021-22             |
| An enhanced hybridized approach for group recommendation via reliable ratings                        | Indu Kashyap                  | Indonesian Journal of Electrical Engineering and Computer Science This link is disabled, 2022, 27(1), pp. 413-421 | 2021-22             |
| Automatic video censoring system using deep learning   | Poonam Tanwar                 | International Journal of Electrical and computer Engineering  | 2021-22             |
| Big Data Analytics for MANET Based Sustainable Smart Healthcare Solution                             | Ashu Gautam & Rashima Mahajan | Recent Advances in Computer Science and Communications  | 2021-22             |

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| Classification based topic extraction using domain-specific vocabulary: a supervised approach                          | Indu Kashyap                                 | Indonesian Journal of Electrical Engineering and Computer Science this link is disabled, | 2021-22 |
| Development and performance evaluation of object and traffic light recognition model by way of deep learning           | Shweta Bali, Tapas Kumar, Shyam Sunder Tyagi | Indonesian Journal of Electrical Engineering and Computer Science                        | 2021-22 |
| Energy Consumption Analysis of Iot-Manet Based Systems with Anova Assessment for Tackling Covid-19                     | Ashu Gautam & Rashima Mahajan                | Journal of Management and Technology   | 2021-22 |
| Improving document classification using domain-specific vocabulary: hybridization of deep learning approach with TFIDF | Indu Kashyap                                 | International Journal of Information Technology (Singapore), 2022,                       | 2021-22 |
| Medical Image Enhancement: A Review  | Ashu Gautam & Rashima Mahajan                | Journal of Electrical Systems  | 2021-22 |
| Pattern recalling analysis of an auto associative memory network using FFT and DWT                                     | Dr Ramesh ch Sahoo                           | Multimedia tools and applications, Springer  | 2021-22 |
| Performance analysis of cooperative spectrum sensing using double dynamic threshold                                    | Neha, Rashima Mahajan                        | IAES International Journal of Artificial Intelligence                                    | 2021-22 |
| Performance Analysis of Hybrid Protocol Under Distributed Denial of Service Attack in Remote Healthcare Systems        | Ashu Gautam & Rashima Mahajan                | Recent Advances in Computer Science and Communications                                   | 2021-22 |

#### h. Book Chapters: 2021-22

| Name of the Author | Title of the book/chapters published | Title of the Paper  | Title of the Proceedings of the Conference / |
|--------------------|--------------------------------------|---|--|
| Brijesh Kumar      | NA                                   | Traffic Sign Recognition Using Multi-layer Color Texture and Shape Feature Based on Neural Network Classifier | Lecture Notes in Networks and System         |
| Brijesh Kumar      | NA                                   | Implementation of Artificial Neural Network for Image Recognition Using Chinese Traffic Sign Image Dataset    | Lecture Notes in Networks and System         |

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|------------------|---|--|--|
| Charu Virmani    | NA  | Internet of Things and Cyber Physical System An Insight  | Studies in System, Decision and Control  |
| Deepa Bura       | Enhancing Information Retrieval System Using Change-Prone Classes | NA   | Critical approaches to Information retrieval research  |
| Deepa Bura       | NA  | Mining of Association Rules in R Using Apriori Algorithm   | Lecture Notes in Electrical Engineering  |
| Deepa Bura       | Emerging Trends of Big Data in Cloud Computing                    | NA   | Applications of Big Data in Large- and Small-Scale System  |
| Dhaneshwar Singh | NA  | Cloud and mobile computing The age of virtual internet space   | Journal of Physics Conference Series   |
| Indu Kashyap     | NA  | Empirical analysis of regression techniques by house price and salary prediction                     | IOP Conference Series Materials Science and Engineering  |
| Indu Kashyap     | NA  | Real Estate Price Prediction Model   | Proceedings - 2021 3rd International Conference on Advances in Computing, Communication Control and Networking, ICAC3N 2021    |
| Indu Kashyap     | NA  | A unified probabilistic factor model with social regularization for point of interest recommendation | Materials Today Proceedings  |
| Kamlesh Sharma   | NA  | Fifth Generation Networks - Issues and Challenges  | 2021 International Conference on Advancements in Electrical, Electronics, Communication, Computing and Automation, ICAECA 2021 |
| Kamlesh Sharma   | NA  | IoT Based Secured Home Automation System Using NLP   | 2021 International Conference on Advancements in Electrical, Electronics, Communication, Computing and Automation, ICAECA 2021 |
| Kamlesh Sharma   | Review of Data Mining Techniques Used in Healthcare               | NA   | Diagnostic Applications of Health Intelligence and Surveillance System, IGI Global   |
| Krishan Kumar    | NA  | Machine Learning Based Movie Recommendation System   | 2021 IEEE 8th Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering, UPCON 2021   |
| Kritika Soni     | NA  | Big Social Data and Modeling Frameworks  | Proceedings - International Conference on Artificial Intelligence and Smart System, ICAIS 2021                                 |

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| Kritika Soni       | NA   | Security Issues and Architecture of IOT   | Proceedings - International Conference on Artificial Intelligence and Smart System, ICAIS 2021                               |
| Kritika Soni       | NA   | The Urgency of Cyber Security in Secure Networks  | 5th International Conference on Intelligent Computing and Control System (ICICCS)  |
| Kritika Soni       | NA   | Cyber Security in Digital Sector  | International Conference on Artificial Intelligence and Smart System (ICAIS)   |
| Kritika Soni       | NA   | Big Social Data and Modeling Frameworks   | International Conference on Artificial Intelligence and Smart System (ICAIS)   |
| Madhumita Kathuria | NA   | Study on Blockchain Scalability Solutions   | Thirteenth International Conference on Contemporary Computing (IC3-2021)   |
| Manisha Vashisht   | NA   | Traffic Sign Recognition Using Multi-layer Color Texture and Shape Feature Based on Neural Network Classifier | Lecture Notes in Networks and System   |
| Manisha Vashisht   | NA   | Implementation of Artificial Neural Network for Image Recognition using Chinese Traffic Sign Image Dataset    | ICNGIoT-2021   |
| Meeta Singh        | NA   | A Review Different Challenges in Energy-Efficient Cloud Security  | IOP Conference Series Earth and Environmental Science  |
| Meeta Singh        | Emerging Trends of Big Data in Cloud Computing | NA  | Applications of Big Data in Large- and Small-Scale System  |
| Monika             | NA   | Digital Image Forensic based on Machine Learning approach for Forgery Detection and Localization              | Journal of Physics Conference Series   |
| Monika Garg        | NA   | Image Classification Using Convolutional Neural Networks  | Communications in Computer and Information Science   |
| Monika Garg        | NA   | Feature Selection Using Ensemble Techniques   | Communications in Computer and Information Science   |
| Neha Batra         | NA   | Impact of Fractal Musical Signals on the Human Brain A Proposed EEG Study                                     | International Conference and Workshop on Computing and Communication   |
| Nitasha Soni       | NA   | Machine Learning Based Movie Recommendation System  | 2021 IEEE 8th Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering, UPCON 2021 |

|               |   |   |  |
|---------------|---|---|--|
| Nitasha Soni  | Data driven Approach Towards Disruptive Technologies                  | NA  | Object Detection in Image Using Components of Convolutional Neural Network and YOLO                  |
| Poonam Nandal | Emerging Trends of Big Data in Cloud Computing                        | NA  | Applications of Big Data in Large- and Small-Scale System  |
| Poonam Rani   | NA  | A Review Different Challenges in Energy-Efficient Cloud Security                    | IOP Conference Series Earth and Environmental Science  |
| Poonam Tanwar | NA  | Intelligence Embedded Image Caption Generator using LSTM based RNN Model            | Proceedings of the 6th International Conference on Communication and Electronics System, ICCES 2021  |
| Poonam Tanwar | Deep Natural Language Processing and AI Applications for Industry 5.0 | NA  | NA   |
| Poonam Tanwar | NA  | The challenges and Issues with Virtualization in Cloud Computing.                   | Proceedings of the 5th International Conference on Trends in Electronics and Informatics, ICOEI 2021 |
| Poonam Tanwar | NA  | Tour towards the security Challenges of Virtualization in Cloud Computing: A Survey | Proceedings of the 5th International Conference on Trends in Electronics and Informatics, ICOEI 2021 |
| Poonam Tanwar | Computational Intelligence & Predictive Analysis for Medical Science. | NA  | NA   |
| Poonam Tanwar | NA  | Tour towards the security Challenges of Virtualization in Cloud Computing: A Survey | 5th International Conference on Trends in Electronics and Informatics (ICOEI 2021)"                  |
| Poonam Tanwar | NA  | Deep Learning technique for detection of Autism Spectrum                            | International Conference of Data Analytics & Management (ICDAM-2021)                                 |
| Poonam Tanwar | NA  | Intelligence Embedded Image Caption Generator using LSTM based RNN Model            | International Conference on Communications and Electronics System                                    |

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|----------------|----|--|---|
| Pronika Chawla | NA | Secure Data Storage in Cloud Using Encryption Algorithm  | ICICV, 2021   |
| Pronika Chawla | NA | Perception of IOT Application and Challenges   | Proceedings of the 6th International Conference on Communication and Electronics System, ICCES 2021 |
| Pronika Chawla | NA | The urgency of cyber-security in secure networks   | Proceedings - 5th International Conference on Intelligent Computing and Control System, ICICCS 2021 |
| Pronika Chawla | NA | Blockchain based cryptocurrency scope in India   | Proceedings - 5th International Conference on Intelligent Computing and Control System, ICICCS 2021 |
| Pronika Chawla | NA | Data mining in Cloud Computing   | Proceedings - 5th International Conference on Computing Methodologies and Communication, ICCMC 2021 |
| Pronika Chawla | NA | Big Social Data and Modeling Frameworks  | Proceedings - International Conference on Artificial Intelligence and Smart System, ICAIS 2021      |
| Pronika Chawla | NA | Security Issues and Architecture of IOT  | Proceedings - International Conference on Artificial Intelligence and Smart System, ICAIS 2021      |
| Pronika Chawla | NA | An Analysis and Comparative Study of Data Deduplication Scheme in Cloud Storage                      | Lecture Notes in Networks and System  |
| Pronika Chawla | NA | Cyber Security in Digital Sector   | International Conference on Artificial Intelligence and Smart System (ICAIS)                        |
| Pronika Chawla | NA | Big Social Data and Modeling Frameworks  | International Conference on Artificial Intelligence and Smart System (ICAIS)                        |
| Pronika Chawla | NA | Data mining in Cloud Computing   | 5th International Conference on Computing Methodologies and Communication (ICCMC)                   |
| Pronika Chawla | NA | Exploring and Analyzing Dark Web   | Proceedings of the International Conference on Innovative Computing & Communication                 |
| Rachna Behl    | NA | A unified probabilistic factor model with social regularization for point of interest recommendation | Materials Today Proceedings   |

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|-----------------|----|--|---|
| Rashima Mahajan | NA | Spectrum Sensing Techniques in Cognitive Radio Networks Challenges and Future Direction      | Lecture Notes in Electrical Engineering   |
| Rashima Mahajan | NA | Investigation of DDoS Attacks Influence on Steering Data in Mobile E-healthcare Sector       | Lecture Notes in Networks and System  |
| Rashima Mahajan | NA | DDoS attacks impact on data transfer in IOT-MANET-based e-healthcare for tackling COVID-19   | Lecture Notes on Data Engineering and Communications Technologies   |
| Rashima Mahajan | NA | QoS Optimization in Internet of Medical Things for Sustainable Management                    | Studies in System, Decision and Control   |
| Rashima Mahajan | NA | Medical Image Enhancement: A Review  | International Conference on Data Science and Applications (ICDSA 2021)  |
| Ritika Bateja   | NA | Evaluation and Application of Clustering Algorithm in Healthcare Domain Using Cloud Services | Second International Conference on Sustainable Technologies for Computational Intelligence                                  |
| Rosy Madaan     | NA | Cloud and mobile computing The age of virtual internet space                                 | Journal of Physics Conference Series  |
| Rosy Madaan     | NA | Image Classification Using TensorFlow  | Proceedings - International Conference on Artificial Intelligence and Smart System, ICAIS 2021                              |
| Rosy Madaan     | NA | Optimized sequential model for plant recognition in Keras                                    | IOP Conference Series Materials Science and Engineering   |
| Rosy Madaan     | NA | NA   | Diagnostic Applications of Health Intelligence and Surveillance System, IGI Global  |
| Seema Verma     | NA | A Blockchain-based Secure Car Hiring System  | ICCSDF 2021   |
| Shefali Singhal | NA | Recommender System in E-commerce and their Challenges  | Proceedings - 2021 3rd International Conference on Advances in Computing, Communication Control and Networking, ICAC3N 2021 |
| Shefali Singhal | NA | Security Challenges in Mobile Cloud Computing  | Proceedings - 2021 3rd International Conference on Advances in Computing, Communication Control and Networking, ICAC3N 2021 |

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|-----------------|----|--|--|
| Shobha Tyagi    | NA | Study on blockchain scalability solutions  | ACM International Conference Proceeding Series   |
| Shweta Sharma   | NA | The challenges and Issues with Virtualization in Cloud Computing                                   | Proceedings of the 5th International Conference on Trends in Electronics and Informatics, ICOEI 2021                           |
| Shweta Sharma   | NA | TOUR towards the SECURITY CHALLENGES of VIRTUALIZATION in CLOUD COMPUTING: A SURVEY                | Proceedings of the 5th International Conference on Trends in Electronics and Informatics, ICOEI 2021                           |
| Shweta Sharma   | NA | TOUR towards the Security Challenges of Virtualization in Cloud Computing: A Survey                | 5th International Conference on Trends in Electronics and Informatics (ICOEI 2021)*  |
| Supriya P Panda | NA | Cloud and mobile computing The age of virtual internet space                                       | Journal of Physics Conference Series   |
| Supriya P Panda | NA | Image Classification Using Tensor Flow   | Proceedings - International Conference on Artificial Intelligence and Smart System, ICAIS 2021                                 |
| Supriya P Panda | NA | Empirical analysis of regression techniques by house price and salary prediction                   | IOP Conference Series Materials Science and Engineering  |
| Supriya P Panda | NA | Free Services - A Threat to Privacy Ensuring a Safe Online Presence using Chrome Browser Extension | Proceedings - 2021 3rd International Conference on Advances in Computing, Communication Control and Networking, ICAC3N 2021    |
| Supriya P Panda | NA | Feature Selection or Email Phishing Detection Using Machine Learning (Book Chapter)                | International Conference on Innovative Computing and Communications  |
| Suresh Kumar    | NA | Design and Analysis of a Chat Bot with IPL First Inning Score Prediction                           | 2021 International Conference on Advancements in Electrical, Electronics, Communication, Computing and Automation, ICAECA 2021 |
| Suresh Kumar    | NA | Fifth Generation Networks - Issues and Challenges  | 2021 International Conference on Advancements in Electrical, Electronics, Communication, Computing and Automation, ICAECA 2021 |
| Suresh Kumar    | NA | IoT Based Secured Home Automation System Using NLP   | 2021 International Conference on Advancements in Electrical, Electronics, Communication, Computing and Automation, ICAECA 2021 |
| Veena Tayal     | NA | Mining public opinion on plastic ban in India  | Advances in Intelligent System and Computing   |

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| Bura, D.,<br>Singh, M.,<br>ndal, P.,<br>Khura, P.  | NA | Efficient Hybrid Technique for Devanagari Numerals Recognition  | International Conference on Machine Learning, Big Data, Cloud and Parallel Computing (COM-IT-CON)                      |
| Vidushi Singhal,<br>Kanika Khatri,<br>Shefali Singhal  | NA | Risk Management by Grid Computing in AWS  | 2022 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing (COM-IT-CON), 26-27 May 2022 |
| Eashaan Sharma, Aryan gaur, Shefali Singhal  | NA | Twitter Sentiment Analysis of India vs Pakistan T20 World Cup Match Using SVM Classifier              | 2022 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing (COM-IT-CON), 26-27 May 2022 |
| Unti Tyagi, Viy Bansal, Shefali SInghal, Tanvi Gupta   | NA | Challenges and issues in energy efficient load balancing in the cloud computing environment           | 2022 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing (COM-IT-CON), 26-27 May 2022 |
| Shilpa,<br>Nitasha   | NA | Object Detection in Image using Components of Convolutional Neural Network and YOLO, COMMIT CON, 2022 | International Conference on Machine Learning, Big Data, Cloud and Parallel Computing (COM-IT-CON), 26-27 May 2022      |
| Inshita Bamba,<br>Yashika,<br>Jahanvi Singh &Pronika Chawla                                      | NA | Face Recognition Techniques and implementation  | International Conference on Emerging Technologies in Data Mining and Information Security                              |
| Deepa Bura;<br>Meeta Singh;<br>Poom ndal;<br>Pooja Khura   | NA | Efficient Hybrid Technique for Devanagari Numerals Recognition  | 2022 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing (COM-IT-CON), 26-27 May 2022 |
| Mridul Wadhwa;<br>Tushar Jha;<br>Bishal Kumar Prasad;<br>Abhishek Bajaj; Lakshya gpal,Deepa Bura | NA | A Hybrid approach on Tracking Criminal Investigation and Suspect Prediction                           | 2022 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing (COM-IT-CON), 26-27 May 2022 |
| Anshu Sharma, Poom Tanwar  | NA | Identification of Autism Spectrum Disorder (ASD) from Facial Expressions using Deep Learning          | 2022 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing (COM-IT-CON), 26-27 May 2022 |
| Rach Behl,<br>Indu Kashyap   | NA | Learning Impact of Non-personalized approaches for PoI recommendations                                | IEMIS2022  |
| Astha Goyal,<br>Indu Kashyap   | NA | Latent Dirichlet Allocation - An approach for topic discovery   | 2022 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing (COM-IT-CON), 26-27 May 2022 |

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|---|---|--|--|
| Vanda Kalra,<br>Indu Kashyap                        | NA  | Effect of Ensembling over K-fold Cross-Validation with Weighted K-Nearest Neighbour for Classification in Medical Domain | 2022 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing (COM-IT-CON), 26-27 May 2022 |
| Meghna Luthra                                       | NA  | A Comprehensive study to identify plants using Unsupervised & Supervised Learning  | 2022 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing (COM-IT-CON), 26-27 May 2022 |
| Shobha Tyagi,<br>Madhumita Kathuria                 | NA  | Role of zero knowledge proof in Blockchain Security  | 2022 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing (COM-IT-CON), 26-27 May 2022 |
| Tanvi Gupta,<br>Supriya P Panda                     | NA  | A Comparison of Machine Learning Algorithm in Predicting Pulmonary diseases  | International Conference on Machine Learning, Big Data, Cloud and Parallel Computing, COM-IT-CON 2022,                 |
| Ranjeeta Mittal,<br>Shweta Mongia,<br>Urvashi Chugh | NA  | Machine Learning Techniques Towards Efficient Occupancy Detection for Industrial Urban Spaces.                           | International Conference on Machine Learning, Big Data, Cloud and Parallel Computing, COM-IT-CON 2022,                 |
| Pronika   | Social Engineering Attacks, Emerging Technologies in Data Mining and Information Security                           | NA   | NA   |
| Pronika   | Natural Language Processing in Chatbots Emerging Technologies in Data Mining and Information Security               | NA   | NA   |
| Pronika   | Development of Android Applications and Its Security- Emerging Technologies in Data Mining and Information Security | NA   | NA   |
| Pronika   | Security Issues and Vulnerabilities in Web  | NA   | NA   |

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|--|--|---|--|
|  | Application-Next Generation of Internet of Things. |   |  |
| . krishan, Charu Rohila                  | NA   | Traffic Congestion Control System Using Machine Learning                            | NA   |
| Bura, D., Singh, M., ndal, P., Khura, P. | NA   | Efficient Hybrid Technique for Devanagari Numerals Recognition                      | International Conference on Machine Learning, Big Data, Cloud and Parallel Computing (COM-IT-CON)      |
| Aastha Budhiraja, Kamlesh Sharma         | NA   | Correlation of Language Processing and Learning Techniques for Legal Support System | 2022 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing (COM-IT-CON) |

## 6. DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### i. Thrust Areas of the Department:

1. VLSI Design & Testing
2. Analog & Mixed Signal Design
3. Testing & Verification
4. RTOS
5. Wireless Communication
6. Antenna & RF Communication
7. Optical Communication & Networks
8. Machine Learning for Embedded Systems
9. Embedded Linux
10. Robotics
11. Internet of Things
12. Digital Signal Processing
13. Image Processing
14. Speech Signal Processing

### ii. Academic Achievements

#### a. Student's Publications: 2021-22

| Title of paper   | Name of all the author/s                         | Student Authors               | Journal / Conference / Book Title |
|--|--|-------------------------------|-----------------------------------|
| Design of THz Low Pass Filter using Split ring resonator | Joy singh, Sudhanshu kumarjha, Dr. Y. K. Awasthi | Joy singh, Sudhanshu kumarjha | Elsevier, Optik                   |

|  |   |  |   |
|--|---|--|---|
| Analysis of Electric Vehicles  | Arshita Madan, Ishika, Yash Bhardwaj, Dr. Abhiruchi Passi                           | Arshita Madan, Ishika, Yash Bhardwaj                             | International Journal of Engineering Research Updates   |
| Sensor Based Automated Irrigation System Using IOT                               | Ashutosh vats, Parv kukreja, Mansi, Dr. Jyoti Verma                                 | Ashutosh vats, Parv kukreja, Mansi                               | Proceedings of the 16th INDIACom; INDIACom-2022; IEEE Conference ID: 545972022 9th International Conference on "Computing for Sustainable Global Development", 23rd-25th March, 2022 Bharati Vidyapeeth's Institute of Computer Applications and Management (BVICAM), New Delhi (INDIA) |
| IOT Security with Blockchain   | Abhinav kumar, Divyansh Dixit, Anish Raj, Dr. Geeta Nijhawan                        | Abhinav kumar, Divyansh Dixit, Anish Raj                         | YMER Digital  |
| Cyber security frameworks  | Arunabh singh, Suraj kumarsingh, Krishna gullapalli, Aayush soni, Dr. Vimlesh Singh | Arunabh singh, Suraj kumarsingh, Krishna gullapalli, Aayush soni | International Journal for Research in Applied Science and Engineering Technology (IJRASET)  |
| Android Security and Comparative Analysis of Static Malware Detection Techniques | Gargi shodangi, Satender Kumar, Rohan Raj, Bipin Kumar                              | Gargi shodangi, Satender Kumar, Rohan Raj, Bipin Kumar           | Com-IT-Con-2022   |

**b. Students benefited by career counseling and guidance for competitive Examinations: 2021-22**

| Activity Description   | No. of Participants |
|--|---------------------|
| Career Prospects on "Current Industry Trend and Requirements"        | 42                  |
| GATE Classes for Electronics and Communication Students              | 8                   |
| Career Progression Webinar on "Road Ahead for Electronics Engineers" | 29                  |
| Elementary classes for Competitive Exams/ Placements                 | 7                   |
| Career prospects on current industry trend and requirements          | 42                  |

**c. Events Organised: 2021-22**

| Title  | From Date  | To Date    |
|--|------------|------------|
| Train the Trainer Program on Solar RoofTop Design (Online Mode)-Professional Development Program for teaching and non-teaching staff | 08-11-2021 | 12-11-2021 |

|   |            |            |
|---|------------|------------|
| Train the Trainer Program on Solar Rooftop Design (Offline Mode)-Professional Development Program for teaching and non-teaching staff | 13-11-2021 | 14-11-2021 |
| STC (Short term course) on 5G COMMUNICATION & ITS APPLICATION in association with NITTTR Chandigarh                                   | 23-05-2022 | 27-05-2022 |

#### d. Faculty members: Awards & Recognitions: 2021-22

| Name of Faculty Member | Awards/Recognition  |
|------------------------|---|
| Vimlesh Singh          | Recognition as Invited Speaker to deliver talk on Publication Misconduct in 14 days E-Refresher Course on Research and Publications Ethics (27-06-2021) |
| Vimlesh Singh          | Recognition as Invited session Chair in International Women Summit on theme Women Empowerment (08-08-2021)  |
| Yogendra Kumar Awasthi | Recognition for publishing patent: Compact Planar Superwide band Equal Power Divider / Combiner For Rf & Microwave Applications (27-08-2021)            |
| Yogendra Kumar Awasthi | Recognition for publishing patent: Microwave Sensing Device For Dielectric Characterization Of Materials (27-08-2021)                                   |
| Geeta Nijhawan         | Recognition as Faculty Coordinator in in Toycathon (24-5-2022 to 25-05-2022)  |
| Abhiruchi Passi        | Recognition as Faculty Coordinator in organizing MANTHAN, a National Level Hackathon (08-12-2021 to 10-12-2021)   |
| Abhiruchi Passi        | Recognition as Judge in Toycathon, Physical Edition(24-05-2022 to 25-05-2022)   |
| Abhiruchi Passi        | Recognition as Faculty Coordinator in Smart India Hackathon-2022  |
| Pratima Manhas         | Recognition as Jury Member Award in Toycathon (24-05-2022 to 25-05-2022)  |
| Pratima Manhas         | Certificate in Excellence in Reviewing (06-01-2022)   |
| Pratima Manhas         | Recognition as Judge in the IDEATHON 2022(18-02-2022 to 19-02-2022)   |
| Yogendra Kumar Awasthi | Recognition as Jury Member in Smart India Hackathon-2022 (25-05-2022)   |
| Yogendra Kumar Awasthi | Recognition as Jury Member award in Toycathon (24-05-2022 to 25-05-2022)  |
| Vimlesh Singh          | Recognition as Faculty Coordinator in Smart India Hackathon-2022  |
| Vimlesh Singh          | Expert Talk in NITTTR Chandigarh in STC on Energy Harvesting & Storage Material & Devices on 13-09-2022 in Online mode                                  |
| Vimlesh Singh          | Recognition as Faculty Coordinator in in Toycathon (24-05-2022 to 25-05-2022)   |
| Vimlesh Singh          | Recognition as Faculty Coordinator in organizing MANTHAN, a National Level Hackathon (08-12-2021 to 10-12-2021)   |

**e. FDPs/Workshops/Conferences Attended: 2021-22**

| Name of Faculty Member | Title   | Date from  | Date to    |
|------------------------|---|------------|------------|
| Abhiruchi Passi        | Train the Trainer Program for ESSCI Solar Centre of Excellence  | 08-11-2021 | 14-11-2021 |
| Abhiruchi Passi        | FDP on Industry Oriented STC on VLSI Design Tools recognised by AICTE   | 21-03-2022 | 25-03-2022 |
| Abhiruchi Passi        | STC on Artificial Intelligence and Big Data Analysis for Electrical Engineering (in Collaboration with MathWorks) through ICT                     | 07-03-2022 | 11-03-2022 |
| Abhiruchi Passi        | One Week Online FDP on Progression to Smart Buildings in Indian Context   | 10-01-2022 | 14-01-2022 |
| Abhiruchi Passi        | FDP on 5G Communication and its application recognised by AICTE   | 23-05-2022 | 27-05-2022 |
| Geeta Nijhawan         | FDP on SciLab Programming Recognised by AICTE   | 25-04-2022 | 29-04-2022 |
| Geeta Nijhawan         | FDP on NEP 2020 Implementation in Higher Education Institutes recognised by AICTE   | 09-05-2022 | 13-05-2022 |
| Geeta Nijhawan         | FDP on 5G Communication and its application recognised by AICTE   | 23-05-2022 | 27-05-2022 |
| Jyoti Verma            | FDP on Contemporary Advances in Sustainable and integrated infrastructure   | 02-08-2021 | 06-08-2021 |
| Jyoti Verma            | FDP on SciLab Programming recognised by AICTE   | 25-04-2022 | 29-04-2022 |
| Jyoti Verma            | STC on Artificial Intelligence and Big Data Analysis for Electrical Engineering (in Collaboration with MathWorks) through ICT recognised by AICTE | 07-03-2022 | 11-03-2022 |
| Jyoti Verma            | FDP on NEP 2020 Implementation in Higher Education Institutes recognised by AICTE   | 09-05-2022 | 13-05-2022 |
| Jyoti Verma            | FDP on Industry Oriented STC on VLSI Design Tools recognised by AICTE   | 21-03-2022 | 25-03-2022 |
| Jyoti Verma            | One Week STTP on Cloud Computing and Internet of Things   | 07-02-2022 | 12-02-2022 |
| Jyoti Verma            | NPTEL Online Certification Course on Digital Electronics& Circuits  | 24-01-2022 | 15-04-2022 |
| Jyoti Verma            | FDP on 5G Communication and its application recognised by AICTE   | 23-05-2022 | 27-05-2022 |
| Pratima Manhas         | ATAL FDP on 5G Technology   | 23-08-2021 | 27-08-2021 |
| Pratima Manhas         | ATAL FDP on Antenna: Design , Fabrication and Measurement   | 02-08-2021 | 06-08-2021 |
| Pratima Manhas         | Sensors Application Through Internet of Things.   | 20-09-2021 | 24-09-2021 |
| Pratima Manhas         | Train the Trainer Program for ESSCI Solar Centre of Excellence  | 08-11-2021 | 14-11-2021 |
| Pratima Manhas         | Electric Vehicle Technology: Opportunities & Challenges   | 06-12-2021 | 10-12-2021 |

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|------------------------|---|------------|------------|
| Pratima Manhas         | FDP on SciLab Programming Recognised by AICTE   | 25-04-2022 | 29-04-2022 |
| Pratima Manhas         | STC on Artificial Intelligence and Big Data Analysis for Electrical Engineering (in Collaboration with MathWorks) through ICT | 07-03-2022 | 11-03-2022 |
| Pratima Manhas         | AICTE sponsored One Week Short Term Training Program on Cloud Computing and Internet of Things                                | 07-02-2022 | 11-02-2022 |
| Pratima Manhas         | NPTEL Online Certification Course on Computer Networks & Internet Protocols   | 24-01-2022 | 15-04-2022 |
| Pratima Manhas         | FDP on NEP 2020 Implementation in Higher Education Institutes recognised by AICTE   | 09-05-2022 | 13-05-2022 |
| Pratima Manhas         | FDP on 5G Communication and its application recognised by AICTE   | 23-05-2022 | 27-05-2022 |
| Pratima Manhas         | FDP on Intellectual Property Rights & Patenting in India recognised by AICTE  | 13-06-2022 | 17-06-2022 |
| Perna Kakkar           | One Week FDP On Progression to Smart Buildings in Indian Context recognised by AICTE  | 10-01-2022 | 14-01-2022 |
| Vimlesh Singh          | ATAL FDP on "Fabrication and Characterization of Thin Films for Future Technological Applications"                            | 16-08-2021 | 20-08-2021 |
| Vimlesh Singh          | FDP on 5G Communication and its application recognised by AICTE   | 23-05-2022 | 27-05-2022 |
| Vimlesh Singh          | FDP on SciLab Programming Recognised by AICTE   | 25-04-2022 | 29-04-2022 |
| Yogendra Kumar Awasthi | FDP on SciLab Programming recognised by AICTE   | 25-04-2022 | 29-04-2022 |
| Yogendra Kumar Awasthi | FDP on 5G Communication and its application recognised by AICTE   | 23-05-2022 | 27-05-2022 |

#### f. Faculty Research Papers:2021-22

| Title of paper   | Name of the author/s            | Name of Journal   | Year of publication |
|--|---------------------------------|---|---------------------|
| A Planar Reconfigurable Antenna for Wideband and Narrowband Applications                               | Viney Malik                     | Journal of Optoelectronics Laser  | 2021-22             |
| A Review Of Leakage Power Reduction Techniques For Vlsi Applications                                   | Shruti Hathwalia, Naresh Grover | SSRG International Journal of Electronics and Communication Engineering | 2021-22             |
| A Review on Reconfigurable Antenna   | Viney Malik                     | Journal of Optoelectronics Laser  | 2021-22             |
| A Single Layer Wideband Absorber for Electromagnetic Interference Minimization in Ku-Band Applications | Yogita Khanna, Y K Awasthi      | Cambridge-International Journal of Microwave and Wireless Technologies  | 2021-22             |

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| A Study Of Emerging Semiconductor Devices For Memory Application   | Shaifali Ruhil, Vandana Khanna, Umesh Dutta, Neeraj Kumar Shukla                      | International Journal of Nano Dimension (Abbreviation Int J Nano Dimens) | 2021-22 |
| A study of emerging semiconductor devices for memory applications  | Shaifali Ruhil, Vandana Khanna, Umesh Dutta, Neeraj Kumar Shukla                      | IOSR Journal Of Humanities And Social Science (IOSR-JHSS)                | 2021-22 |
| AMBA AHB Bus with Multiple Masters Using VHDL  | Hitanshu Saluja, Naresh Grover  | ECS Transactions   | 2021-22 |
| An Investigation And Implementation Of Solar-Thermal Based Hybrid Energy Harvesting System For Wsn   | Suman Arora, Geeta Nijhawan, Gourav Verma   | International Journal of Advanced Research in Engineering and Technology | 2021-22 |
| Assessment Of Cybersecurity Related Issues In Iot  | Vimlesh, Arunabh Singh, Suraj Kumar Singh, Akhilesh Kumar, Krishna Gullapalli, Naveed | Turkish Journal of Computer and Mathematics Education(TURCOMAT)          | 2021-22 |
| Comparative AHB Amba 2.0 And Axi 4.0 Implementations In Soc Design   | Hitanshu Saluja and Naresh Grover   | Design Engineering   | 2021-22 |
| Comparative AHB AMBA 2.0 and AXI 4.0 Implementations in SOC Design   | Hitanshu Saluja and Naresh Grover   | Design Engineering   | 2021-22 |
| Comparison of Nano Q plus Operating System with other operating systems in Wireless Sensor Networks with other operating systems in Wireless<br>Comparison of Nano Q plus Operating System with other operating systems in Wireless<br>Comparison of Nano Q plus Operating System with other operating systems in Wireless | Rajshree Nahar and Abhiruchi Passi  | SSRG International Journal of Electronics and Communication Engineering  | 2021-22 |
| Design and analysis of a planar UWB bandpass filter with stopband characteristics using MMR technique  | Gaurav Saxena, Y. K. Awasthi and Priyanka Jain  | Cambridge-International Journal of Microwave and Wireless Technologies   | 2021-22 |
| Design of a 30 Nm Novel 3-D Quad Gate Stacked Nano-Sheets FinFET   | Shaifali Ruhil, Umesh Dutta, Vandana Khanna & Neeraj Kumar Shukla                     | Springer   | 2021-22 |
| Design Of A Low Power Pll Using Cs-Vco In 45Nm Cmos Technology   | Shruti Hathwalia, Naresh Grover   | Journal of Huazhong University of Science and Technology                 | 2021-22 |



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|--|--|--|---------|
| Robotics Process Automation The Future Digital Worker      | Mansi Varshney, Divyansh Dixit, Anish Raj, Jyoti Verma | Journal of Huazhong University of Science and Technology | 2021-22 |
| Security Technique Against Power Exhausting Attacks In Wsn | Jaya Kaushik , Naresh Grover                           | Annals of Romanian Society for Cell Biological           | 2021-22 |

#### g. Book Chapters: 2021-22

| Name of the teacher | Title of the book/chapters published   | Title of the Paper   | Title of the proceedings of the conference /  |
|---------------------|--|--|---|
| Abhiruchi Passi     | NA                                     | Digital Image Forensic based on Machine Learning approach for Forgery Detection and Localization | International Conference on Mechatronics and Artificial Intelligence held at SGT University, Gurgaon        |
| Abhiruchi Passi     | NA                                     | Perspective of wireless sensor networks towards Environment Gaps and Challenges                  | International Conference on Mechatronics and Artificial Intelligence held at SGT University, Gurgaon        |
| Geeta Nijhawan      | NA                                     | A systematic survey on various energy harvesting system for WSN applications                     | ICIERA 2021 - 1st International Conference on Industrial Electronics Research and Applications, Proceedings |
| Jyoti Verma         | NA                                     | Controller Design for Dynamic Stability and Performance Enhancement of Renewable Energy System   | Smart Innovation, System and Technologies   |
| Jyoti Verma         | Computer Organization and Architecture | NA   | NA  |
| Jyoti Verma         | NA                                     | Controller Design for Dynamic Stability and Performance Enhancement of Renewable Energy System   | Smart Innovation, System and Technologies   |
| M.K Soni            | NA                                     | Perspective of wireless sensor networks towards Environment Gaps and Challenges                  | Journal of Physics Conference Series  |
| Pratima Manhas      | Computer Organization and Architecture | NA   | NA  |

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|--|--|--|---|
| Prerna Kakkar                                      | NA                                     | Stree Atma Nirbharta jacket - An IOT based women safety system   | Proceedings - 2021 4th International Conference on Computational Intelligence and Communication Technologies, CCICT 2021                    |
| Shaveta Thakral                                    | Computer Organization and Architecture | NA   | NA  |
| Vimlesh Singh                                      | NA                                     | Design of Low Pass Filter using Microstrip Line - A Comparative Study                                      | Proceedings of the 8th International Conference on Signal Processing and Integrated Networks, SPIN 2021                                     |
| Vimlesh Singh                                      | NA                                     | A Study on Development of CNTFET Based Analog and Digital Circuits   | 2021 4th International Conference on Recent Developments in Control, Automation and Power Engineering, RDCAPE 2021                          |
| Y.K Awasthi  | NA                                     | Parametric Analysis Determining the Efficacy of Varied Approaches under Deregulated Electricity Market     | Proceedings of the 8th International Conference on Signal Processing and Integrated Networks, SPIN 2021                                     |
| Y.K Awasthi  | NA                                     | Design of Low Pass Filter using Microstrip Line - A Comparative Study                                      | Proceedings of the 8th International Conference on Signal Processing and Integrated Networks, SPIN 2021                                     |
| Y.K Awasthi  | NA                                     | Comparative Efficacy of Optimization Techniques Towards Multi-Objective Electric Power Quality Improvement | Proceedings of the 8th International Conference on Signal Processing and Integrated Networks, SPIN 2021                                     |
| Monika Dhiman, . Pratima Manhas                    | NA                                     | Review of Vehicle to Vehicle Communication System by using IOT   | International Conference on Innovations in Electronics & Communication Engineering (ICIECE-2021) Springer                                   |
| Dipa Nitin Kokane, Geeta Nijhawn, Shruti Vashist   | NA                                     | Performance of Non-Orthogonal Multiple Access with MIMO System   | 9th International conference on Innovation in Computer Science & Engineering (ICICSE-2021)<br>Supported by Springer                         |
| Dipa Nitin Kokane, Geeta Nijhawn, . Shruti Vashist | NA                                     | Non-Orthogonal Multiple Access with Alamouti Technique for Future Wireless Communication                   | 2nd International Conference on Communication, Computing & Industry 4.0-2021<br>C2I4-2021, CMRIT, Bangalore<br>Supported by IEEE            |
| Dipa Nitin Kokane, Geeta Nijhawn, Shruti Vashist   | NA                                     | Non Orthogonal Multiple Access With Interference Cancellation Scheme                                       | 6th International conference on Soft Computing: Theories and Applications<br>Scopus Indexed LNNS Springer Proceedings, IIIT Kota, Rajasthan |
| Manoj Kumar Tomar, Vimlesh Singh , Laxya           | NA                                     | A study on Development of CNTFET based Alog & Digital Circuits   | 4th International Conference on Recent Developments in Control, Automation & Power Engineering (RDCAPE-2021), Amity University Noida.       |
| Joy Singh, Sudhanshu Kumar Jha,                    | NA                                     | Design of Low Pass Filter using Microstrip Line - A  | IEEE 8th International Conference on Signal Processing and Integrated Networks (Spin-2021)  |

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|--|--|--|--|
| Saurabh Raturi,<br>Vimlesh Singh,<br>Yogena Kumar<br>Awasthi               |  | Comparative Study  |  |
| Manisha Hooda, Y<br>K Awasthi, A S<br>Siddiqui, Niharika<br>Thakur         | NA   | Profit Maximization<br>Using Hybrid Krill-<br>Herd and Sine-<br>Cosine Algorithm For<br>Deregulated<br>Electricity Market    | IEEE 8th International Conference on Signal<br>Processing and Integrated Networks (Spin-<br>2021)  |
| Niharika Thakur,<br>Y K Awasthi, A S<br>Siddiqui, Manisha<br>Hooda         | NA   | Comparative Efficacy<br>of Optimization<br>Techniques towards<br>Multi-Objective<br>Electric Power<br>Quality<br>Improvement | IEEE 8th International Conference on Signal<br>Processing and Integrated Networks (Spin-<br>2021)  |
| Niharika Thakur,<br>Y K Awasthi, A S<br>Siddiqui, Manisha<br>Hooda         | NA   | Comparative Efficacy<br>of Optimization<br>Techniques towards<br>Multi-Objective<br>Electric Power<br>Quality<br>Improvement | IEEE 8th International Conference on Signal<br>Processing and Integrated Networks (Spin-<br>2021)  |
| Vimlesh Singh  | NA   | nanomaterial:<br>Aerospace solution  | 2nd International Conference on Industrial<br>and Manufacturing System (CI-2021)   |
| Vimlesh Singh,<br>Udai Bhan Singh,<br>Priyanka Bansal &<br>Amrinder Dhiman | Electropreneur<br>Ship: Bolstering<br>Self Employment<br>in Today's era-<br>Self-Employment<br>in Computer and<br>Electronics<br>Engineering | NA   | NA   |
| . Shaveta<br>Thakral, Jyoti<br>Verma, Pratima<br>Manhas                    | NA   | Computer<br>Organization and<br>Architecture   | NA   |
| Pratima Manhas,<br>Jyoti Verma   | NA   | Quantum<br>implementation of<br>Reversible logic<br>gates using<br>RCViewer+ tool  | International Conference on Emerging<br>Technologies in Data Mining and<br>information Security on 23-25 Feb<br>2022.(Springer )   |
| Jyoti Verma,<br>Pratima Manhas   | NA   | Machine Learning<br>Approach based on<br>Fuzzy logic for<br>Industrial<br>Temperature<br>regulation                          | International Conference on Emerging<br>Technologies in Data Mining and<br>information Security on 23-25 Feb<br>2022.(Springer )   |
| Abhiruchi Passi,<br>Ab Wahid Bhatt   | NA   | Wireless Sensor<br>Network Notes: A<br>Comparative Survey  | International Conference on Computing for<br>Sustainable Global Development, technically<br>sponsored by IEEE Delhi Section, 23rd to<br>25th March, 2022 at Bharati Vidyapeeth,<br>New Delhi (INDIA) |

|  |  |   |   |
|--|--|---|---|
| Sunita Joshi, Y K Awasthi, Niharika Thakur, Yogita Khan                          | NA   | RFID Technology for Next Generation: Theory, Design, and Applications | International Conference on Robotics, Automation & Communication Engineering for Industry 4.0 (ICRACI4.0-2022), MRU, Faridabad,   |
| Dipa Nitin Kokane, . Geeta Nijhawn, . Shruti Vashist                             | NA   | Network Connectivity Technologies for Internet of Things              | Second International Conference on Artificial Intelligence and Smart System (ICAIS 2022), JCT College of Engineering and Technology, Coimbatore<br>JCT College of Engineering and Technology, Coimbatore<br>Supported by IEEE |
| Kashish Mahinoo, Vani Sadadiwala, Vimlesh Singh, Devender Sharma Sarthak Singhal | NA   | Triple Band Polarization Independent C-Band Metamaterial Absorber     | 5th International Conference on Communication, Devices & Networking, Department of Electronics & Communication Engineering, Sikkim Manipal Institute of Technology, Sikkim Manipal University, Sikkim, India                  |
| Vimlesh Singh, Amit Kumar, Mahesh Kumar Aghwariya                                | Design and Analysis of DGS-Based Fractal Antenna for Meteorological Satellite-Smart Antenna Springer | NA  | NA  |
| Amit Kumar, Mahesh Kumar Agwariya, Vimlesh Singh                                 | Applications of Microstrip Antenna in IoT-Smart Antenna Springer                                     | NA  | NA  |
| . Umesh Dutta, Vikas Sharma, Nilansh Khura, Shivam Gupta                         | Tinkering With Raspberry Pi  | NA  | NA  |

## 7. DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

### h. Thrust Areas of the Department:

- ❖ Power System Engineering which includes:
  - Power Generation Technology
  - Power System Dynamic and Stability
  - Unit commitment and Pricing
  - Power System Restructuring and Deregulation
  - Wide Area Measurements and Applications
  - HVDC and FACTS
  - AI Techniques and Optimization in Power System
  - Electrical Machines and AC-DC Drives
- ❖ Electric Vehicles:
  - Electrical Vehicular Technologies
  - Battery Technology and Battery Management
  - Grid Interfacing Issues of Electrical Vehicle

- ❖ Smart Grid Technologies and Micro-grids
  - Real-time pricing and Demand Response in Smart Grid Environment
  - Smart Grid Communications
  - Micro – and Nano – Grids, issues and solutions
  - Smart features in Electrical Grid
- ❖ Industrial Automation
  - Programmable logic Controllers
  - SCADA
  - Robotics
  - Servos
  - Variable frequency Drives
- ❖ Renewable Energy Sources
  - Solar Energy
  - Wind Energy
  - Fuel Cell Technology
- ❖ Power electronics & Drives
  - Converter Topologies
  - Power conditioning for Grid interfacing
- ❖ Energy Audit

### Academic Achievements

#### a. Student's Publications: 2021-22

| Title of paper   | Name of all the author/s                          | Student Authors     | Journal/Conference/Book Title  |
|--|---|---------------------|--|
| Design and analysis of EV Charging station using LLC Converter                     | Nayen Kenger ,<br>Richa Adlakha,<br>Ashish Grover | Nayen Kenger        | International Conference on Recent Developments in Electrical and Electronics Engineering (ICRDEEE 2022) |
| BLDC Motor-Driven Solar PV Array-Fed Water Pumping System Employing Zeta Converter | Binu Joseph Abraham1<br>,Richa Adlakha            | Binu Joseph Abraham | International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering    |
| Compact and Efficient Way of LSEV Charging   | Rakesh Sharma<br>,Anita Khosla                    | Rakesh Sharma       | Smart Structures in Energy Infrastructure  |

#### b. Students benefited by career counseling and guidance for competitive Examinations 2021-22

| Activity Description   | No. of Participants |
|--|---------------------|
| GATE Classes for Electrical and Electronics Engineering students | 11                  |
| Career Prospects through Competitive Exam Series:2K21            | 5                   |

**c. Student progression to higher education during the year:2021-22**

| Name of students enrolled for higher education | Graduated from which programme                | Name of institution joined                             | Admitted to (Name of Programme) |
|--|---|--|---------------------------------|
| Vinay  | B.Tech-Electrical and electronics engineering | J.C.Bose University of Science And Technology, Haryana | M.Tech                          |

**d. Faculty members: Awards & Recognitions: 2021-22**

| Name of Faculty Member | Awards/Recognition   |
|------------------------|--|
| Ashish Grover          | Recognition as Invited panelist for Technical Webinar on "Electric Vehicle: The future of Energy and Mobility for Sustainable Development" (28.08.2021)  |
| Amarinder Kaur         | Faculty Coordinator in Toycathon (24-5-2022 to 25-5-2022)  |
| Amarinder Kaur         | Recognition for publishing patent: IoT Based Speaker Reorganization System(04-02-2022)   |
| Richa Adlakha          | Certificate of Excellence as Reviewer(29-03-2022)  |
| Richa Adlakha          | Certificate of Appreciation for International Conference on Recent Developments in EEE (ICRDEEE-2022) 15-04-2022 to 16-04-2022)  |
| Richa Adlakha          | Certificate of Jury for IDEATHON 2022 ( 18-02-2022 to 19-02-2022)  |
| Richa Adlakha          | Certificate as Co-Coordinator for ICT based STC on Artificial Intelligence and Big Data Analysis for Electrical Engineering ( 21-04-2022)  |
| Richa Adlakha          | Recognition for publishing patent: Intelligent Electricity Utilisation Management System (15-02-2022)  |
| Richa Adlakha          | Recognition as Invited panelist for Technical Lecture Meeting Webinar on "Battery Technology and Application in Electric Vehicle" (09-10-2021)   |
| Anita Khosla           | Recognition as Invited Speaker to deliver an expert talk on EMS with Automation on 11 June 2021, in online AICTE sponsored Short Term Training Program (STTP) on "Role of Energy Management System in Smart Grid" at Department of Electrical Engineering, Jamia Millia Islamia, New Delhi. (11-06-2021) |
| Anita Khosla           | Recognition as Invited panelist for technical Webinar on "E Waste-A Challenge for Sustainable Development (03-07-2021)   |
| Anita Khosla           | Recognition as Invited Speaker for online Faculty Development Programme on the topic "Recent Challenges in Electrical & Electronics Engineering" (17-11-2021)  |
| Anita Khosla           | Recognition for publishing patent: on Machine Learning Algorithm Aided Solar Irradiance Prediction (31-12-2021)  |
| Anita Khosla           | CIEMA Research Award (26-03-2022 to 27-03-2022)  |
| Anita Khosla           | Recognition as Senior Member IEEE (01-12-2021)   |

|              |  |
|--------------|--|
| Anita Khosla | Recognition as Invited Reviewer for paper titled "Winding-to-Ground Fault Location in Power Transformer Windings Using Combination of Discrete Wavelet Transform and Back-Propagation Neural Network" for Applied Artificial Intelligence (03-01-2022) |
| Leena G      | Recognition as Invited Session Chair at IEEE International Conference on Recent Developments in Control Automation and Power Engineering, held at Amity University, Uttar Pradesh, Noida, (October 7-8,2021)   |
| Leena G      | Recognition as Invited Program Committee Chair and Reviewer in the International Conference on "Sustainable Technology and Advanced Computing in Electrical Engineering" (11-11-2021-12-11-2021)   |
| Leena G      | Recognition as coordinator for ICT based STC on Artificial Intelligence and big data Analysis for Electrical Engineering (21-04-2022)  |

**e. FDPs attended by Faculty Members: 2021-22**

| <b>Name of Faculty Member</b> | <b>Title</b>  | <b>Date from</b> | <b>Date to</b> |
|-------------------------------|---|------------------|----------------|
| Amarinder Kaur                | FDP on Artificial Intelligence and Machine learning Applications in Electrical Engineering          | 09-08-2021       | 13-08-2021     |
| Amarinder Kaur                | Certificate course on 30 Days EV Design Master Class.   | 23-08-2021       | 21-09-2021     |
| Amarinder Kaur                | Certificate course on Introduction to Smart Grid  | 26-07-2021       | 17-09-2021     |
| Amarinder Kaur                | FDP on Recent Trends In Renewable Energy  | 02-08-2021       | 06-08-2021     |
| Amit Atri                     | FDP on Microgrid An Opportunity: Electric Vehicles and Renewable Energy Resources                   | 05-07-2021       | 09-07-2021     |
| Amit Atri                     | FDP on Power and Energy Systems   | 19-07-2021       | 23-07-2021     |
| Amit Atri                     | FDP on EV and Charging Infrastructure   | 26-07-2021       | 30-07-2021     |
| Amit Atri                     | FDP on Recent Trends In Renewable Energy  | 02-08-2021       | 06-08-2021     |
| Amit Atri                     | FDP on SciLab Programming Recognised by AICTE   | 25-04-2022       | 29-04-2022     |
| Amit Atri                     | STC on Artificial Intelligence and Big Data Analysis for Electrical Engineering recognised by AICTE | 07-03-2022       | 11-03-2022     |
| Anita Khosla                  | FDP on Capacity building of women in higher education   | 12-07-2021       | 16-07-2021     |
| Anita Khosla                  | FDP on Social Robotics and AI   | 28-06-2021       | 04-07-2021     |
| Anita Khosla                  | Certificate course on Introduction to Smart Grid  | 26-07-2021       | 17-09-2021     |
| Ashish Grover                 | FDP on Electric Vehicle Technology: Opportunities & Challenges                                      | 06-12-2021       | 10-12-2021     |
| Ashish Grover                 | STTP on Electrical Vehicle Techniques with OPAL-RT Solutions  | 20-12-2021       | 25-12-2021     |
| Ashish Grover                 | FDP on Implementation of Industry 4.0 and its Challenges  | 05-07-2021       | 09-07-2021     |

|                      |   |            |            |
|----------------------|---|------------|------------|
| Ashish Grover        | FDP on Recent Trends In Renewable Energy  | 02-08-2021 | 06-08-2021 |
| Ashish Grover        | FDP on Edge computing technologies for Smart Factory Automation and Industry 4.0                  | 16-08-2021 | 20-08-2021 |
| Ashish Grover        | Certificate course on Introduction to Smart Grid  | 26-07-2021 | 17-09-2021 |
| Ashish Grover        | FDP on Basic of electrical Vehicles   | 10-09-2021 | 14-09-2021 |
| Ashish Grover        | FDP on Robotics and Artificial Intelligence   | 13-12-2021 | 17-12-2021 |
| Ashish Grover        | FDP on NEP 2020 Implementation in Higher Education Institutes recognised by AICTE                 | 09-05-2022 | 13-05-2022 |
| Ashish Grover        | FDP on 5G Communication and its Applications recognised by AICTE                                  | 23-05-2022 | 27-05-2022 |
| Ashish Grover        | Online Training Programme on MATLAB and LabVIEW Programming for Engineering Applications          | 24-01-2022 | 04-02-2022 |
| Leena G              | FDP on Machine Learning For Autonomous Futuristic Electric Vehicles                               | 12-07-2021 | 16-07-2021 |
| Leena G              | FDP on Basic of Electric Vehicles   | 10-09-2021 | 14-09-2021 |
| Leena G              | Certificate course on Electric Vehicles and Renewable Energy                                      | 26-07-2021 | 15-10-2021 |
| Leena G              | FDP on Robotics and Artificial Intelligence   | 08-11-2021 | 12-11-2021 |
| Leena G              | FDP on Robotics   | 22-11-2021 | 26-11-2021 |
| Leena G              | FDP on Robotics and Artificial Intelligence   | 13-12-2021 | 17-12-2021 |
| Neha Chaudhary/Midha | FDP on Power and Energy Systems   | 19-07-2021 | 24-07-2021 |
| Neha Chaudhary/Midha | FDP on GIS & Remote Sensing   | 02-08-2021 | 06-08-2021 |
| Neha Chaudhary/Midha | FDP on Robotics and Artificial Intelligence   | 13-12-2021 | 17-12-2021 |
| Neha Chaudhary/Midha | FDP on Electric Vehicle Technology: Opportunities & Challenges                                    | 06-12-2021 | 10-12-2021 |
| Neha Chaudhary/Midha | Certificate course on Introduction to Smart Grid  | 26-07-2021 | 17-09-2021 |
| Richa Adlakha        | FDP on Challenges and Opportunities in Integration of Electric Vehicles with Smart Electric Grids | 16-08-2021 | 20-08-2021 |
| Richa Adlakha        | FDP on Recent Trends In Renewable Energy  | 02-08-2021 | 06-08-2021 |
| Richa Adlakha        | Certificate course on Electric Vehicles and Renewable Energy                                      | 26-07-2021 | 15-10-2021 |
| Richa Adlakha        | Certificate course on Introduction to Smart Grid  | 26-07-2021 | 17-09-2021 |
| Richa Adlakha        | FDP on Robotics and Artificial Intelligence   | 13-12-2021 | 17-12-2021 |
| Richa Adlakha        | STTP on Electrical Vehicle Techniques with OPAL-RT Solutions                                      | 20-12-2021 | 25-12-2021 |

|               |   |            |            |
|---------------|---|------------|------------|
| Richa Adlakha | FDP on SciLab Programming recognised by AICTE                                     | 25-04-2022 | 29-04-2022 |
| Richa Adlakha | FDP on NEP 2020 Implementation in Higher Education Institutes recognised by AICTE | 09-05-2022 | 13-05-2022 |

#### f. Events Organised: 2021-22

| Title of the professional development program organised for teaching staff: FDP, STC, Conference, Seminar, Expert talk, Session etc                | From Date  | To Date    |
|--|------------|------------|
| AICTE sponsored ATAL online Faculty Development Program on "Robotics & Artificial Intelligence-Professional Development Program for teaching staff | 13-12-2021 | 17-12-2021 |
| STC on 'Artificial Intelligence and Big Data Analysis for Electrical Engineering' in collaboration with NITTTR Chandigarh                          | 07-03-2022 | 11-03-2022 |

#### g. Faculty Research Papers: 2021-22

| Title of Paper  | Name of the Author/S             | Name of Journal  | Year of Publication |
|---|----------------------------------|--|---------------------|
| A Case Study for Analyzing the Power Generation from Wastes                                       | Amit Atri, Anita Khosla          | Ambient Science  | 2021-22             |
| Comparison Of Adaptive Filtering Scheme For Sustainable And Efficient Communication In Smart City | Anita Khosla                     | Sustainable Energy Technologies and Assessments                    | 2021-22             |
| Comprehensive review on spectrum sensing techniques in cognitive radio                            | Neha Chaudhary & Rashima Mahajan | Engineering Review   | 2021-22             |
| Disrupting predatory journals   | G. Leena and V. K. J. Jeevan     | Current Science  | 2021-22             |
| Early Skin Cancer Detection Microwave Imaging   | Amrinder Kaur                    | Indian Journal of Natural Sciences                                 | 2021-22             |
| Identification of spectrum holes using energy detector based spectrum sensing                     | Neha Chaudhary & Rashima Mahajan | International Journal of Information Technology (IJIT)             | 2021-22             |
| Identification Of Spectrum Holes Using Energy Detector Based Spectrum Sensing                     | Neha Chaudhary & Rashima Mahajan | International Journal of Information Technology                    | 2021-22             |
| Micro-Grid Simulation and Integration with GRID using 13 Level Inverter                           | Hardev Meena Leena G             | International Journal of Recent Technology and Engineering (IJRTE) | 2021-22             |

|  |                                |   |         |
|--|--------------------------------|---|---------|
| Performance enhancement of grid-connected photovoltaic systems using Ant Lion optimisation and Genetic Algorithm- based optimisation techniques, | Pankaj Negi, Yash Pal, Leena G | Cognitive Computation Systems- IET, Wiley open Access journal , | 2021-22 |
|--|--------------------------------|---|---------|

#### i. Book Chapters: 2021-22

| Name of the teacher | Title of the book/chapters published | Title of the paper  | Title of the proceedings of the conference /workshop         |
|---------------------|--------------------------------------|---|--|
| Amit Atri           | NA                                   | A Review of Load Frequency Control of Hybrid Power System   | Proceedings of ICRTE 2021, Volume 2                          |
| Anita Khosla        | NA                                   | Implementation of Soft Computing Techniques to Evade Partial Shading Effects for PV Based Off-Grid System | Asia-Pacific Power and Energy Engineering Conference, APPEEC |
| Anita Khosla        | NA                                   | A Review of Load Frequency Control of Hybrid Power System   | Proceedings of ICRTE 2021, Volume 2                          |
| Anita Khosla        | NA                                   | Compact and Efficient Way of LSEV Charging  | Proceedings of ICRTE 2021, Volume 2                          |
| Anita Khosla        | NA                                   | A Concept Design of a Futuristic Battery Management System for Submarines Using IEEE802.3 Network         | Proceedings of ICRTE 2021, Volume 2                          |
| Anita Khosla        | NA                                   | Optimizing Greedy Algorithm to Balance the Server Load in Cloud Simulated Environment                     | NA   |
| Ashish Grover       | NA                                   | Implementation of Soft Computing Techniques to Evade Partial Shading Effects for PV Based Off-Grid System | Asia-Pacific Power and Energy Engineering Conference, APPEEC |
| Leena G             | NA                                   | Order Reduction of Linear Time Invariant Large-Scale System by  | Smart Innovation, Syste and Technologies                     |

|                                       |  |  |   |
|---------------------------------------|--|--|---|
|                                       |  | Improved Mixed Approximation Method  |   |
| Leena G                               | NA   | Efficiency and GreenHouse Emission Response of Different Vehicles Operating on Various living Cycles | IOP Conference Series: Materials Science and Engineering                                  |
| Leena G                               | NA   | Analysis of Predictive Current Control Technique in Wind Energy Conversion System                    | Proceedings of IC RTE 2021, Volume 2  |
| Anita Khosla                          | Smart Structures in Energy Infrastructure  | NA   | Proceedings of IC RTE 2021 Volume 2   |
| Richa Adlakha, Ashish Grover          | NA   | Design and analysis of EV Charging station using LLC Converter                                       | International conference on Recent Developments in electrical and electronics engineering |
| Khosla, A., Vashist, S., Nijhawan, G. | Blockchain Technology in Healthcare- EAI/Springer Innovations in Communication and Computing | NA   | NA  |

## 8. DEPARTMENT OF MECHANICAL ENGINEERING

### i) Thrust Areas of the Department:

- ❖ Additive Manufacturing & Robotics
- ❖ Unconventional Machining
- ❖ Metal Cutting and Tool Wear
- ❖ Biomechanics
- ❖ Energy Management and Analysis
- ❖ Mechanical Design Analysis
- ❖ Quality Control and TQM

### ii) Academic Achievements:

#### a. Student's Publications: 2021-22

| Title of Paper  | Name of all the author/s   | Student Authors | Journal/Conference/Book Title   |
|---|----------------------------|-----------------|---|
| Investigating of Microstructure of the CBN Tools during | Manoj Nayak, Rakesh Sehgal | Akash Mazeed    | Proceedings of the International Conference on Advanced Materials and Computational Methods in Mechanical Engineering |

|  |   |                                  |  |
|--|---|----------------------------------|--|
| Continuous and Interrupted Machining   |   |                                  |  |
| Modeling and Combined Effect Analysis of Electric Discharge Machining Process using Response Surface Methodology       | Gurpreet Singh Matharou, Basanta Kr. Bhuyan               | Gurpreet Singh Matharou          | International Conference on Futuristic Trends in Materials and Manufacturing   |
| Perspective Study of Abrasive Water Jet Machining of Composites - A Review   | Anil Kumar Dahiya, Basanta Kr. Bhuyan<br>Shailender Kumar | Anil Kumar Dahiya                | Journal of Mechanical Science and Technology                                   |
| Optimization of Process Parameters for Surface Roughness of GFRP with AWJ Machining using Taguchi and GRA Methods      | Anil Kumar Dahiya, Basanta Kr. Bhuyan<br>Shailender Kumar | Anil Kumar Dahiya                | International Journal of Modern Manufacturing Technologies, ISSN No. 2067-3604 |
| Flow of Air Inside Indoor Air Purifier Using HEPA, Carbon Activated, Anti-Bacterial                                    | Basanta Kumar Bhuyan                                      | Rishabh; Prateek Srivastav       | International Journal for Science and Advance Research In Technology           |
| Barriers in designing and developing products by Additive Manufacturing for Bio-Mechanics Systems in Healthcare Sector | Rajender Kumar & Pankaj Shakarwal, Puna Lata Singh        | Vishal Tyagi                     | Materials Today Proceeding; ISSN_2214-7853,                                    |
| To study and analyze the design of drive shafts for automobiles using composite material through                       | Dr. Rajender Kumar & Dinesh Chawla                        | Ahmed Ishan Feroz, Dinesh Chawla | Materials Today Proceeding; ISSN_2214-7853,                                    |

|  |   |   |  |
|--|---|---|--|
| empirical review on literature   |   |   |  |
| Design and analysis of multi cavity Injection Mould using SOLIDWORKS   | Dr. Rajender Kumar & Mr. Pankaj Shakarwal | Arpit Arora, Arpit Pathak, Akshat Juneja  | Materials Today Proceeding; ISSN_2214-7853,  |
| Design and Analysis of Progressive Dies using Solidworks   | Dr. Rajender Kumar & Mr. Pankaj Shakarwal | Arpit Arora, Arpit Pathak, Akshat Juneja  | Materials Today Proceeding; ISSN_2214-7853,  |
| All Electric Aircraft: A reality on its way  | Jimmy Mehta                               | Nischal Thappa, Sidhartha Ram, Sonu Kumar | Materials Today Proceeding; ISSN_2214-7853,  |
| Experimental investigation of surface roughness in electric discharge machining of Hybrid Metal Matrix Composite | Gurpreet Singh Matharou, Basant Bhuyan    | Gurpreet Singh Matharou                   | Advances in Materials and Material Technology, Lecture Notes in Mechanical Engineering |
| A review on Machining Potential of Composite Materials during Abrasive Water Jet Machining                       | Anil Kumar Dahiya, Basant Bhuyan          | Anil Kumar Dahiya                         | Advances in Materials and Material Technology, Lecture Notes in Mechanical Engineering |
| Significant Complications declining usage of Electrical Discharge Machining Process                              | Gurpreet Singh Matharou, Basant Bhuyan    | Gurpreet Singh Matharou                   | IOP Series; Material Science & Engineering   |

**b. Student progression to higher education during the year: 2021-22**

| <b>Name of students enrolled for higher education</b> | <b>Graduated from which Programme</b> | <b>Name of Institution joined</b>            | <b>Admitted to (Name of Programme)</b> |
|---|---------------------------------------|--|--|
| Rijul Choudhary                                       | B.Tech-Mechanical Engineering         | Great Lakes Institute of Management, Chennai | M.Tech                                 |

|                |                               |   |                                   |
|----------------|-------------------------------|---|-----------------------------------|
| Sanskar Saxena | B.Tech-Mechanical Engineering | Hindustan Institute of Maritime Training, Tamil Naidu                 | Graduate Marine Engineering (GME) |
| Dev Ashish     | B.Tech-Mechanical Engineering | Manav Rachna International Institute of Research and Studies, Haryana | MBA                               |
| Aakash Rawat   | B.Tech-Mechanical Engineering | University of Canada  | MBA                               |

**c. Students benefited by career counseling and guidance for competitive Examinations: 2021-22**

| Activity Description  | No. of Participants |
|---|---------------------|
| Career Progression in Manufacturing Industry                              | 68                  |
| Successful Career Planning, Higher Education & Technical Profile Building | 45                  |
| How to become Job Ready for Core Industries                               | 55                  |

**d. Faculty members: Awards & Recognitions: 2021-22**

| Name of Faculty Member | Awards/Recognition   |
|------------------------|--|
| Rajender Kumar         | Young Engineers Award (15-09-2021)   |
| Rajender Kumar         | Best paper award "Challenges associated with technology in promoting Skill & Entrepreneurial Initiatives in combating COVID" at Engineers for Skill Development and Employment in combating COVID (15-09-2021) |
| Rajender Kumar         | Recognition as Invited session chair at 2nd International Conference on Functional Materials, Manufacturing and Performances held (17-09-2021-18-09-2021)  |
| Rajender Kumar         | Recognition for conducting AICTE-ATAL FDP on Design Thinking for Manufacturing Excellence (06-09-2021-10-09-2021)  |
| Vinay                  | Recognition for publishing patent: Mechanized Retail Store Comprising 3D Printed Autonomous Home Delivery Drone (03-12-2021)   |
| Dain D. Thomas         | Recognition as Professional Member of The Institution of Engineers, M-1736137 (15-09-2021)   |
| Joydeep                | Appreciation Award as a coordinator of ISHRAE Student chapter.   |
| Jimmy Mehta            | Recognition as Invited reviewer of research paper titled "Thermal Spray Coatings for improving Tribological and Hot Corrosion Properties on Stainless Steel Sample" (07-12-2021)                               |
| Jimmy Mehta            | Recognition as Invited speaker to deliver a talk for ATAL -FDP on 3D printing Technology (12-07-2021-16-07-2021)   |
| Jimmy Mehta            | Recognition for Professional Membership of The Institution of Engineers, M-1742064 (16-11-2021)  |
| Jimmy Mehta            | Reviewer: Thermal Spray Coatings for Improving Tribological and Hot Corrosion Properties on Stainless Steel Sample (07-12-2021)  |
| Prateek Mittal         | Recognition for Professional Membership of The Institution of Engineers, M-1741548 (10-11-2021)  |
| Prateek Mittal         | Recognition for publishing patent: Feeder Cum Stirrer Mechanism For Stir Casting (27-08-2021)  |

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| Virender Narula      | Received Lead Auditor recognition certification on ISO 45001 by Chartered Quality Institute and The International Register of Certificated Auditors (03-06-2021) |
| Virender Narula      | Recognition for Professional Membership of The Institution of Engineers, M-1740975 (29-10-2021)  |
| Dinesh Chawla        | Recognition for Professional Membership of Institution of Engineers, M-1735661 (09-09-2021)  |
| Devdutt              | Recognition for Professional Membership of Institution of Engineers, M-1745306 (16-12-2021)  |
| Pankaj Shakkarwal    | Recognition for Professional Membership of Institution of Engineers, M-1740916 (26-10-2021)  |
| Sushant              | Recognition for Professional Membership of Institution of Engineers, M-1745144 (27-10-2021)  |
| Seema Mahto          | Recognition for Professional Membership of Institution of Engineers, M-1740819 (02-11-2021)  |
| Basanta Kumar Bhuyan | Recognition for Invited Speaker: Expert talk on Introduction to 3D Printing Applications (23-04-2022)  |
| Basanta Kumar Bhuyan | Recognition for Invited Speaker: Guest lecture on Opportunities and Challenges in Advanced Machining Processes( 14-05-2022)                                      |
| Virender Narula      | Received Certificate of Achievement for Earning EMS ISO 14001 :2015 LEAD AUDITOR Certification (03-11-2021)  |
| Virender Narula      | Received Certificate of Achievement for Earning OH&SMS ISO 45001 :2018 LEAD AUDITOR Certification (03-07-2021)   |
| Rajender Kumar       | Provisional Auditor for Quality Management Systems(22-03-2022)   |
| Rajender Kumar       | IMT Industries Association Expo 2022 (13-03-2022 to 15-03-2022)  |
| Vinay                | Published a patent titled: Mechanized Retail Store Comprising 3D Printed Autonomous Home Delivery Drone(19-11-2021)  |

#### e. FDPs attended by Faculty Members: 2021-22

| Name of Faculty Member | Title of FDP/Workshop/Conference                                  | Date from  | Date to    |
|------------------------|---|------------|------------|
| Basanta Kumar Bhuyan   | Design Thinking for Manufacturing Excellence                      | 06-09-2021 | 10-09-2021 |
| Dain D. Thomas         | Recent Trends in Mechanical Engineering                           | 20-07-2021 | 24-07-2021 |
| Dain D. Thomas         | ATAL FDP on Industrial Robots for Future Factories                | 13-09-2021 | 17-09-2021 |
| Devdutt                | Electrets Applications in Sensors, Microelectronics and Actuators | 05-07-2021 | 09-07-2021 |
| Devdutt                | Virtual and Augmented Reality for Robotics                        | 12-07-2021 | 16-07-2021 |
| Devdutt                | Research Writing and Professional Ethics                          | 07-09-2021 | 13-09-2021 |
| Devdutt                | FDP on Effective Academic Practices                               | 10-01-2022 | 14-01-2022 |
| Devdutt                | AICTE sponsored FDP on Engineering Materials                      | 24-01-2022 | 30-01-2022 |
| Dinesh Chawla          | Design Thinking for Manufacturing Excellence                      | 06-09-2021 | 10-09-2021 |
| Dinesh Chawla          | Design and Analysis using CATIA/ANSYS                             | 20-09-2021 | 24-09-2021 |

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|-------------------|--|------------|------------|
| Dinesh Chawla     | AICTE recognised STC on Water Resource Management  | 07-03-2022 | 11-03-2022 |
| Jimmy Mehta       | FDP on 3D Printing Technology  | 12-07-2021 | 16-07-2021 |
| Jimmy Mehta       | AICTE-ISTE approved Orientation/Refresher Programme on Advances in Materials Processing and Characterization | 05-01-2022 | 11-01-2022 |
| Jimmy Mehta       | FDP on Progression to Smart Buildings in Indian Context  | 10-01-2022 | 14-01-2022 |
| Jimmy Mehta       | FDP on Trends and advances in Mechanical Engineering   | 07-02-2022 | 11-02-2022 |
| Jimmy Mehta       | International Symposium on Computational Intelligence  | 28-04-2022 | 29-04-2022 |
| Jimmy Mehta       | One Week FDP on Recent Developments in Renewable Energy  | 20-06-2022 | 24-06-2022 |
| Joydeep           | FDP on Design Thinking for Manufacturing Excellence  | 06-09-2021 | 10-09-2021 |
| Manoj Nayak       | Organizational Behavioural Dynamics and Professional Ethics  | 01-07-2021 | 05-07-2021 |
| Manoj Nayak       | Design Thinking for Manufacturing Excellence   | 06-09-2021 | 10-09-2021 |
| Pankaj Shakkarwal | FDP on New & Emerging Technology   | 28-06-2021 | 02-07-2021 |
| Pankaj Shakkarwal | Online Training Programme on 3D Printing   | 25-06-2021 | 26-07-2021 |
| Pankaj Shakkarwal | Online Training Programme on CREO 3.0  | 30-06-2021 | 31-07-2021 |
| Prateek Mittal    | Advance and Innovative Approaches in Management Education  | 05-07-2021 | 09-07-2021 |
| Rajender Kumar    | ATAL FDP on Life skills for blissful life  | 07-06-2021 | 11-06-2021 |
| Rajender Kumar    | Online FDP on Leadership Management through self management  | 27-12-2021 | 31-12-2021 |
| Rajender Kumar    | Design Thinking for Manufacturing Excellence   | 06-09-2021 | 10-09-2021 |
| Rajender Kumar    | Skill Development Programme on Recent Advancements in Materials and Digital Manufacturing                    | 05-10-2021 | 09-10-2021 |
| Seema Mahto       | Design Thinking for Manufacturing Excellence   | 06-09-2021 | 10-09-2021 |
| Vinay             | FDP on Internet of Things and Sensors  | 26-07-2021 | 30-07-2021 |
| Vinay             | Recent Trends in Mechanical Engineering  | 20-07-2021 | 24-07-2021 |
| Vinay             | Contemporary Advances in Sustainable and integrated infrastructure   | 02-08-2021 | 06-08-2021 |
| Vinay             | FDP on Progression to Smart Buildings in Indian Context  | 10-01-2022 | 14-01-2022 |
| Vinay             | FDP on Envisioning Pathways in Thermal Sciences  | 23-05-2022 | 28-05-2022 |
| Virender Narula   | Design Thinking for Manufacturing Excellence   | 06-09-2021 | 10-09-2021 |

**f. Events Organised: 2021-22**

| Title  | From Date  | To Date    |
|--|------------|------------|
| AICTE sponsored ATAL Online Faculty Development Programme (Faculty Development Program) on "Design Thinking for Manufacturing Excellence": Professional Development Program for teaching staff | 06-09-2021 | 10-09-2021 |

**g. Faculty Research Papers: 2021-22**

| Title of Paper  | Name of the Author/S   | Name of Journal  | Year of Publication |
|---|--|--|---------------------|
| Active Vibration Analysis Of Passenger Biodynamics In Quarter Car Model With Summing Anfis Based Pid Super Twisting Control                               | Devdutt  | International Journal of Vehicle Noise and Vibration                       | 2021-22             |
| All Electric Aircraft A Reality On Its Way  | Jimmy Mehta  | Material Today Proceedings   | 2021-22             |
| An Analysis Of Smart Materials For Auto Parts Manufacturing For Reduced Weight And Cost Of Automobile   | Devendra Vashist, M Akhilesh, Abhijith Hari Kumar & Raj Dangwal, | International Journal of Advanced Production and Industrial Engineering    | 2021-22             |
| An Optimised Framework For Implementation Of Hybrid Lean And Agile Manufacturing Systems In Rolling Industry For India.                                   | Rajender Kumar   | International Journal of Six Sigma and Competitive Advantage               | 2021-22             |
| Analysis The Critical Success Factor Of Green Manufacturing For Achieving Sustainability In Automotive Sector   | Rajender Kumar   | Lecture Notes in Mechanical Engineering, Springer                          | 2021-22             |
| Analyze The Critical Success Factor For Green Manufacturing For Achieving Sustainability In Automotive Sector   | Rajender Kumar   | Recent Trends in Production and Industrial Engineering                     | 2021-22             |
| Application Of Structured Maintenance Reliability Programme In Oil And Gas Industry- A Case Study   | Virender Narula  | Lecture Notes in Mechanical Engineering                                    | 2021-22             |
| Barriers In Designing And Developing Products By Additive Manufacturing For Bio-Mechanics Systems In Healthcare Sector                                    | Rajender Kumar & Pankaj Shakarwal                                | Materials Today Proceedings  | 2021-22             |
| Challenges And Opportunities In Synthesis Of Hybrid Cu-Al <sub>2</sub> O <sub>3</sub> -C And Cu-ZrO <sub>2</sub> -C Composites Through Stir Casting Route | Jimmy Mehta, Prateek Mittal, Dinesh Chawla                       | Advances in Engineering Materials. Lecture Notes in Mechanical Engineering | 2021-22             |

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| Comparison Of Dry And Lubricated Wear Behaviour Of 22Mnb5 Uncoated Ultra High Strength Steel   | Prateek Mittal, Jimmy Mehta   | Materials Today Proceedings  | 2021-22 |
| Corrosion, Optimization and Surface Analysis of Fe-Al <sub>2</sub> O <sub>3</sub> -CeO <sub>2</sub> Metal Matrix Nanocomposites                  | Jimmy Mehta   | Journal of Mechanical Engineering Sciences                           | 2021-22 |
| Corrosion, Optimization And Surface Analysis Of Fe-Al <sub>2</sub> O <sub>3</sub> -CeO <sub>2</sub> Metal Matrix Nanocomposites                  | Pallav Gupta, Naseem Ahmad, Jimmy Mehta, Devender Kumar, M. A. Quraishi, M.L. Rinawa, Sumit Gupta and Vijay Chaudhary | Journal of Mechanical Engineering Science                            | 2021-22 |
| Design & Analysis Of Progressive Die Using Solidworks  | Arpit Arora<br>Arpit Pathak<br>Akshat Juneja<br>Pankaj Shakkarwal<br>Rajender Kumar                                   | Materials Today Proceedings  | 2021-22 |
| Design Analysis Of Dimmer Light For Autonomous Vehicles  | Devendra Vashist & Abhishek Mangla, Dhruv Gulati, Nanak Jhamb,  | Smart Structures in Energy Infrastructure                            | 2021-22 |
| Design and analysis of multi cavity Injection Mould using SOLIDWORKS   | Rajender Kumar & Pankaj Shakarwal   | Materials Today Proceeding   | 2021-22 |
| Design and Analysis of Progressive Dies using Solidworks   | Rajender Kumar & Pankaj Shakarwal   | Materials Today Proceeding   | 2021-22 |
| Developing the structural model for barriers associated with the CSR using ISM to help in creating the brand image of the manufacturing industry | Rajender Kumar  | International Journal of Advanced Operations Management              | 2021-22 |
| Effect of Nanofillers and Nanotoxicity on the performance of composites: Influence factors, future scope, challenges and applications            | Jimmy Mehta   | Polymer Composites   | 2021-22 |
| Electrochemical Discharge Machining Process, Variants And Hybridization A Review   | Rajender Kumar  | IOP Conference Series Materials Science and Engineering              | 2021-22 |
| Experimental Investigations On Electrical Discharge Grinding Of Composite Material   | Basant Kr. Bhuyan   | Materials Today Proceedings  | 2021-22 |
| Flow of Air Inside Indoor Air Purifier Using HEPA, Carbon Activated, Anti-Bacterial  | Basanta Kumar Bhuyan  | International Journal for Science and Advance Research In Technology | 2021-22 |
| Identification Of Factors For Lean And Agile Manufacturing Systems In Rolling Industry   | Rajender Kumar  | Lecture Notes in Mechanical Engineering, Springer                    | 2021-22 |

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|--|--|---|---------|
| Identifying The Factors Related To Csr Activities Contributed Toward Brand Management Through Extensive Literature Review. | Rajender Kumar   | Lecture Notes in Mechanical Engineering, Springer                           | 2021-22 |
| Improving Resources Utility In Construction Sector For The Sustainable Development   | Rajender Kumar   | Recent Trends in Production and Industrial Engineering                      | 2021-22 |
| Investigating Machinability of Aisi D6 Tool Steel Using Cb Tools During Hard Turning                                       | Manoj Nayak  | Elsevier  | 2021-22 |
| Investigating Machinability Of Aisi D6 Tool Steel Using Cbn Tools During Hard Turning.                                     | Rajender Kumar   | Materials Today Proceedings   | 2021-22 |
| ISM-ANP Hybrid Approach to prioritize the barriers in green Six Sigma implementation in construction sector                | Dain Thomas  | International Journal of Lean Six Sigma                                     | 2021-22 |
| ISM-ANP Hybrid Approach to prioritize the barriers in green Six Sigma implementation in construction sector                | Dinesh Khanduja  | International Journal of Lean Six Sigma                                     | 2021-22 |
| Kaizen Implementation In Rolling Mill A Case Study.  | Rajender Kumar   | Lecture Notes in Mechanical Engineering                                     | 2021-22 |
| Machine Learning Best Way To Sustain The Supply Chain In The Era Of Industry 4.0.  | Rajender Kumar   | Material Today Proceedings  | 2021-22 |
| Modeling Enablers Of Efficiency And Sustainability Of Health Care A M-Tism Approach.                                       | Sindhvani, R., Kumar, R., Behl, A., Singh, P.L., Kumar, A. & Gupta, T. | Benchmarking  | 2021-22 |
| Modeling enablers of efficiency and sustainability of healthcare: A m-TISM approach.                                       | Rajender Kumar   | Benchmarking: An International Journal                                      | 2021-22 |
| Optimization of Process Parameters for Surface Roughness of GFRP with AWJ Machining using Taguchi and GRA Methods          | Basanta Kumar Bhuyan   | International Journal of Modern Manufacturing Technologies                  | 2021-22 |
| Perspective Study Of Abrasive Water Jet Machining Of Composites - A Review   | Anil Kumar Dahiya, B K Bhuyan,   | Journal of Mechanical Science and Technology                                | 2021-22 |
| Progressive Die Design And Development Using Autocad   | Mr. Pankaj Shakkarwal, Rajender Kumar                                  | Springer Nature   | 2021-22 |
| Structural Modeling For The Factors Of Facility Management In The Healthcare Industry Using The Tism Approach.             | Rajender Kumar   | Multi-Criteria Decision Modelling Applicational Techniques and Case Studies | 2021-22 |
| Structural, Wear And Thermal Behavior Of Copper Metal Matrix Composites A Review   | Jimmy Mehta, Prateek Mittal, Dinesh Chawla                             | Advances in Engineering Materials. Lecture Notes in Mechanical              | 2021-22 |

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|--|----------------------------------|---|---------|
|  |                                  | Engineering                               |         |
| Technological Advancements For Reduced Charging Time Of Electric Vehicle Batteries A Review. Smart Structures In Energy Infrastructure | Devendra Vashist & Abdullah Naim | Smart Structures in Energy Infrastructure | 2021-22 |
| To study and analyze the design of drive shafts for automobiles using composite material through empirical review on literature        | Rajender Kumar & Dinesh Chawla   | Materials Today Proceeding                | 2021-22 |

#### h. Book Chapters: 2021-22

| Name of the teacher  | Title of the book / chapters published | Title of the paper  | Title of the proceedings of the conference |
|----------------------|--|---|--|
| Basanta Kumar Bhuyan | NA                                     | Hybrid Metal Matrix Composite Development by Stir Casting and Environmental Concerns  | Lecture Notes in Mechanical Engineering    |
| Basanta Kumar Bhuyan | NA                                     | Parametric Analysis of Electric Discharge Machining of Hybrid Composite Materials   | Lecture Notes in Mechanical Engineering    |
| Dinesh Chawla        | NA                                     | Structural, Wear and Thermal Behavior of Copper Metal Matrix Composites A Review  | Lecture Notes in Mechanical Engineering    |
| Jimmy Mehta          | NA                                     | Comparison of $\gamma$ and lubricated wear behaviour of 22MnB5 uncoated ultra high strength steel   | Materials Today Proceedings                |
| Jimmy Mehta          | NA                                     | Structural, Wear and Thermal Behavior of Copper Metal Matrix Composites A Review  | Lecture Notes in Mechanical Engineering    |
| Jimmy Mehta          | NA                                     | Challenges and Opportunities in Synthesis of Hybrid Cu-Al <sub>2</sub> O <sub>3</sub> -C and Cu-ZrO <sub>2</sub> -C Composites Through Stir Casting Route | Lecture Notes in Mechanical Engineering    |

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|---------------------|----|--|---|
| Joydeep Chakraborty | NA | Air-Conditioning System in Surgical and Critical Care A Review   | Lecture Notes in Mechanical Engineering                 |
| Manoj Nayak         | NA | Investigating machinability of AISI D6 tool steel using CBN tools during hard turning                                | Materials Today Proceedings                             |
| Pankaj Shakkarwal   | NA | Barriers in designing and developing products by additive manufacturing for biomechanics system in healthcare sector | Materials Today Proceedings                             |
| Pankaj Shakkarwal   | NA | Design & analysis of progressive die using SOLIDWORKS  | Materials Today Proceedings                             |
| Prateek Mittal      | NA | Comparison of $\gamma$ and lubricated wear behavior of 22MnB5 uncoated ultra high strength steel                     | Materials Today Proceedings                             |
| Prateek Mittal      | NA | Structural, Wear and Thermal Behavior of Copper Metal Matrix Composites A Review                                     | Lecture Notes in Mechanical Engineering                 |
| Rajender Kumar      | NA | Electrochemical discharge machining process, variants and hybridization A review                                     | IOP Conference Series Materials Science and Engineering |
| Rajender Kumar      | NA | Barriers in designing and developing products by additive manufacturing for biomechanics system in healthcare sector | Materials Today Proceedings                             |
| Rajender Kumar      | NA | Design & analysis of progressive die using SOLIDWORKS  | Materials Today Proceedings                             |
| Rajender Kumar      | NA | Investigating machinability of AISI D6 tool steel using CBN tools during hard turning                                | Materials Today Proceedings                             |
| Rajender Kumar      | NA | Machine learning Best way to sustain the supply chain in the era of industry4.0                                      | Materials Today Proceedings                             |

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|--------------------|---|---|--|
| Rajender Kumar     | NA  | Identifying the Factors Related to CSR Activities Contributed Toward Brand Management Through Extensive Literature Review         | Lecture Notes in Mechanical Engineering  |
| Rajender Kumar     | NA  | Kaizen Implementation in Rolling Mill A Case Study  | Lecture Notes in Mechanical Engineering  |
| Rajender Kumar     | NA  | Identification of Factors for Lean and Agile Manufacturing System in Rolling Industry   | Lecture Notes in Mechanical Engineering  |
| Rajender Kumar     | NA  | Improving the resource utility in construction sector for sustainable development   | Lecture notes in Mechanical Engineering  |
| Vaibhav Raghav     | NA  | Structural, Wear and Thermal Behavior of Copper Metal Matrix Composites A Review  | Lecture Notes in Mechanical Engineering  |
| Virender Narula    | NA  | Application of Structured Maintenance Reliability Programme in Oil and Gas Industry— A Case Study                                 | Lecture Notes in Mechanical Engineering  |
| Manoj Nayak        | IOT in Agriculture: Survey on Technology, Challenges and Future, Smart Agriculture                                    | NA  | NA   |
| Manoj Nayak        | A Review on FPGA Based Digital Filters for Denoising ECG Signals, Sensor Network Methodologies and Smart Applications | NA  | NA   |
| Basanta Kr. Bhuyan | NA  | Theoretical and experimental estimation of Material removal rate of Electric spark diamond grinding of difficult-to-cut materials | Advances in Materials and Material Technology in Lecture Notes in Mechanical Engineering |

|                             |  |   |   |
|-----------------------------|--|---|---|
| Basanta Bhuyan              | NA   | A review on Machining Potential of Composite Materials during Abrasive Water Jet Machining                    | Advances in Materials and Material Technology IN Lecture Notes in Mechanical Engineering        |
| Rajender Kumar              | Applications of Artificial Intelligence and Machine Learning Using Additive Manufacturing Techniques, Additive Manufacturing with Medical Applications | NA  | NA  |
| Rajender Kumar              | Structural Modelling for the Factors of Facility Management in the Healthcare Industry Using the TISM Approach, Multi-Criteria Decision Modelling      | NA  | NA  |
| Rajender Kumar              | Lean in Business Models: Way to Go for Entrepreneurial Journey in Industry 4.0 Context, Principles of Entrepreneurship in the Industry 4.0 Era         | NA  | NA  |
| Rajender Kumar              | Imperatives Associated to Women Participation in Entrepreneurial Activities, Principles of Entrepreneurship in the Industry 4.0 Era                    | NA  | NA  |
| Rajender Kumar              | NA   | Improving the resources utility in the construction sector for sustainable development.                       | Recent Trends in Industrial and Production Engineering, Lecture Notes in Mechanical Engineering |
| Rajender Kumar              | NA   | Analysis the critical success factor of green manufacturing for achieving sustainability in automotive sector | Recent Trends in Industrial and Production Engineering, Lecture Notes in Mechanical Engineering |
| Jimmy Mehta, Prateek        | Impact of Coating blends and coating technique in Metal Matrix Composite, Metal Matrix Composites  | NA  | NA  |
| Jimmy Mehta, Prateek, Seema | Copper Matrix Composites: Synthesis & Application, Metal Matrix Composites   | NA  | NA  |

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|--------------|---|---|--|
| Jimmy Mehta  | NA  | Comparative prediction of influence of process parameters during CAEDM and REDM of hybrid metal matrix composites | Advances in Manufacturing Engineering, Lecture Notes in Mechanical Engineering |
| Dain Thomas  | Six Sigma: Integration with Lean and Green, Operation Management and data Analytics Modelling   | NA  | NA   |
| Jayant Maini | Epigenetic regulation of Chronic Kidney Disease development following prenatal maternal stress. | NA  | NA   |

## 9. DEPARTMENT OF APPLIED SCIENCE

### i) Thrust Areas of the Department:

- ❖ Material Science
- ❖ Plasma Physics
- ❖ Nanotechnology
- ❖ Polymer Fibers
- ❖ Noise Pollution
- ❖ Synthetic Organic Chemistry
- ❖ Colloidal Chemistry
- ❖ Corrosion Studies and Water Purification.
- ❖ Bio-mathematics
- ❖ Fluid Dynamics
- ❖ Fuzzy Theory
- ❖ Decision Sciences
- ❖ Fixed Point Theory
- ❖ Numerical Analysis

### ii) Academic Achievements:

#### a. Faculty members: Awards & Recognitions: 2021-22

| Name of Faculty Member | Awards/Recognition   |
|------------------------|--|
| Vijay Kumar            | Recognition as Invited Resource Person to deliver an expert talk on "Utility & Importance of Mathematical Science in Engineering Solutions" at Institution of Engineers, Faridabad chapter. 25-06-2021 |
| Pooja Khurana/Sachdeva | Recognition as Keynote Speaker in National conference on Cryptography and Network Security-2021, held from August 10-12, 2021  |

|                        |  |
|------------------------|--|
| Pooja Khurana/Sachdeva | Recognition as Invited speaker to deliver talk on Mathematical insight of Covid-19 infection: a modeling approach (18-08-2021)   |
| Pooja Khurana/Sachdeva | Recognition as Invited resource person: oral presentation on "A graphical based approach for early diagnosis of Alzheimer disorder" at the International Congress on Healthcare and Medical Informatics (13-12-2021 to 14-12-2021) |
| Pooja Khurana/Sachdeva | Recognition as Invited Speaker at International Award Conference on Multidisciplinary Innovation (27-12-2021)  |
| Neeraj Kumari          | Recognition for publishing patent: A System And Method For Strategic Consulting Group (SCG) Matrix (12-08-2021)  |
| Neeraj Kumari          | Recognition for publishing patent: A Skill Matrix System And Method For Job Recruitment (18-06-2021)   |

**b. FDPs / Workshops / Conferences Attended by Faculty members: 2021-22**

| Name of Faculty Member | Title of FDP/Workshop/Conference   | Date from  | Date to    |
|------------------------|--|------------|------------|
| Anupama Rajput         | ATAL FDP on Waste Valorization towards a Sustainable Environment   | 14-06-2021 | 18-06-2021 |
| Anupama Rajput         | FDP on Waste Water Treatment Recycle & reuse   | 06-09-2021 | 10-09-2021 |
| Anupama Rajput         | Online FDP on Rhizospheric engineering: Revisiting the Microbe-Plant Synergy to Mitigate Plant Nano Toxicology | 24-01-2022 | 28-01-2022 |
| Anupama Rajput         | Online Advanced FDP on Polymer Matrix based Nanostructures for Targeted Drug Delivery Application              | 07-02-2022 | 11-02-2022 |
| Anupama Rajput         | STTP Course on Plastics Product Manufacturing & Recycling Techniques   | 15-02-2022 | 21-02-2022 |
| Arti Saxena            | FDP on Life Skills for Blissful Life   | 13-12-2021 | 17-12-2021 |
| Arti Saxena            | FDP on Recent Developments in Mathematical Sciences and Engineering  | 22-12-2021 | 26-12-2021 |
| Deepak Kumar           | FDP on Design Thinking for Manufacturing Excellence  | 06-09-2021 | 10-09-2021 |
| Deepak Kumar           | FDP on Internet of Things and Sensors  | 26-07-2021 | 31-07-2021 |
| Deepak Kumar           | FDP on Effective Academic Practices,   | 10-01-2022 | 14-01-2022 |
| Devi Singh             | FDP on Effective writing and publishing of research paper in SCI, SCOPUS, ABDC indexed journals                | 02-08-2021 | 06-08-2021 |
| Devi Singh             | FDP on Technology- Innovations, challenges and solutions   | 12-08-2021 | 17-08-2021 |
| Devi Singh             | One Week Online FDP on Progression to Smart Buildings in Indian Context  | 10-01-2022 | 14-01-2022 |
| Devi Singh             | FDP on Holistic Development and Outcome Based Innovative Teaching  | 14-02-2022 | 20-02-2022 |
| Devi Singh             | Online UHV Refresher I Part I FDP organised by AICTE   | 21-02-2022 | 25-02-2022 |
| Devi Singh             | Online Workshop on The Science and Art of Well-being   | 25-04-2022 | 29-04-2022 |
| Devi Singh             | One Week Online FDP on Research  | 02-05-2022 | 07-05-2022 |



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|------------------------|--|------------|------------|
| Pooja Khurana/Sachdeva | FDP on Mathematical Analysis   | 04-01-2022 | 10-01-2022 |
| Pooja Khurana/Sachdeva | FDP on OBE and NBA Accreditation recognised by AICTE   | 23-05-2022 | 27-05-2022 |
| Pooja Khurana/Sachdeva | FDP on MATLAB for Engineering Applications recognised by AICTE   | 30-05-2022 | 03-06-2022 |
| Rajeev Kumar           | FDP on Green Technology and Sustainability Management  | 01-07-2021 | 05-07-2021 |
| Rajeev Kumar           | FDP on Contemporary Advances in Sustainable and Integrated Infrastructure  | 02-08-2021 | 06-08-2021 |
| Rajeev Kumar           | AICTE recognised STP on Water Resource Management  | 07-03-2022 | 11-03-2022 |
| Sandeep Srivastava     | FDP on Electric Vehicle Technology; Opportunities & Challenges   | 06-12-2021 | 10-12-2021 |
| Sandeep Srivastava     | FDP on Contemporary Advances In Sustainable and Integrated Infrastructure  | 02-08-2021 | 06-08-2021 |
| Sandeep Srivastava     | ATAL OnlineFDP on Waste Technology   | 11-01-2022 | 15-01-2022 |
| Sandeep Srivastava     | ATAL Online FDP on Recent Advances In Nanoscience And Nanotechnology   | 17-01-2022 | 21-02-2022 |
| Sandeep Srivastava     | One Week Online FDP on Progression to Smart Buildings in Indian Context  | 10-01-2022 | 14-01-2022 |
| Sandeep Srivastava     | AICTE FDP on MATLAB for Engineering Applications   | 30-05-2022 | 03-06-2022 |
| Sandeep Srivastava     | AICTE recognised STP on Water Resource Management  | 07-03-2022 | 11-03-2022 |
| Shagufta Jabin         | FDP on Contemporary Advances In Sustainable and Integrated Infrastructure  | 02-08-2021 | 06-08-2021 |
| Shagufta Jabin         | FDP on Green Technology and Sustainability Management  | 01-07-2021 | 05-07-2021 |
| Shagufta Jabin         | FDP on Effective Academic Practices  | 10-01-2022 | 14-01-2022 |
| Shagufta Jabin         | AICTE Recognised STC on Artificial Intelligence & Big Data Analysis of Electrical Engineering (in Collaboration with Math Works) through ICT | 07-03-2022 | 11-03-2022 |
| Usha                   | FDP on MATLAB for Engineering Applications recognised by AICTE   | 30-05-2022 | 03-06-2022 |
| Vijay Kumar            | FDP on Life Skills for Blissful Life   | 13-12-2021 | 17-12-2021 |
| Vijay Kumar            | FDP on Recent Developments in Mathematical Sciences and Engineering  | 22-12-2021 | 26-12-2021 |

### c. Events Organised: 2021-22

| Title  | From Date  | To Date    |
|--|------------|------------|
| STC on MATLAB for Engineering Applications in collaboration with NITTTR Chandigarh | 30-05-2022 | 03-06-2022 |





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| Performance of dye-sensitized solar cells extracted dye from wood apple leaves                   | Alhorani, S., Kumar, S., Genwa, M., Meena, P.L.               | Journal of Physics Communications                                    | 2021-22 |
| Polyelectrolytes As A Material Of Value In Water Treatment A Review                              | ShaguftaJabin, Priti Gupta & Mukta Sharma                     | Asian Journal of Water, Env. & Pollution                             | 2021-22 |
| Rap Via Constraint Optimization Genetic Algorithm  | Sunita Kumari, Pooja Khurana & Shakuntla Singla               | Life Cycle Reliability and Safety Engineering                        | 2021-22 |
| Solution Of Constrained Problems Using Particle Swarm Optimization                               | Sunita Kumari, Pooja Khurana, Shakuntla Singla & Arun Kuma    | International Journal of System Assurance Engineering and Management | 2021-22 |
| Studying The Dimensions Of Corporate Culture In Indian It Companies                              | Neeraj Kumari, Sonal Pathak, Swati Watts, Devi Singh          | World Journal of Educational Research (WJER)                         | 2021-22 |
| Tuning the spectral, thermal and morphological properties of Poly(o-phenylenediamine-co-vanillin | Dipali Khokhar, Sapana Jadoun, Rizwan Arif and Shagufta Jabin | Materials Research Innovations                                       | 2021-22 |

#### e. Book Chapters: 2021-22

| Name of the teacher | Title of the book/ chapters published                         | Title of the paper   | Title of the proceedings of the conference                            |
|---------------------|---|--|---|
| Arti Saxena         | Creditworthiness assessment using natural language processing | NA   | Deep Natural Language Processing and AI Applications for Industry 5.0 |
| Arti Saxena         | NA  | Modeling Covid-19 Transmission Dynamics Using Machine Learning Techniques      | EAI/Springer Innovations in Communication and Computing               |
| Deepak Kumar        | NA  | Mathematical modeling of type -2 diabetes mellitus as a risk factor for cancer | Journal of Physics Conference Series                                  |
| Deepak Kumar        | Analysis of Epidemiology Integrating Computational Models     | NA   | Cognitive Computing System  |

|                              |  |   |   |
|------------------------------|--|---|---|
| Devi Singh                   | NA   | Impact of hot injected beam on whistler mode with alternating electric field (AC) in the magnetosphere of Saturn            | Journal of Physics Conference Series                    |
| Devi Singh                   | NA   | Analytical study of electromagnetic ion cyclotron wave for ring distribution with AC electric field in Saturn magnetosphere | Journal of Physics Conference Series                    |
| Jyoti Chawla                 | NA   | Modeling Covid-19 Transmission Dynamics Using Machine Learning Techniques   | EAI/Springer Innovations in Communication and Computing |
| Kalpna Varshney              | NA   | Metal air battery A sustainable and low cost material for energy storage  | Journal of Physics Conference Series                    |
| Mukta Sharma                 | NA   | Fundamental and Principles of Green Synthesis   | Advances in Science, Technology and Innovation          |
| Pooja Khurana                | NA   | Mathematical modeling of type -2 diabetes mellitus as a risk factor for cancer  | Journal of Physics Conference Series                    |
| Pooja Khurana                | Analysis of Epidemiology Integrating Computational Models      | NA  | Cognitive Computing System                              |
| Pradeep K Varshney           | NA   | Metal air battery A sustainable and low cost material for energy storage  | Journal of Physics Conference Series                    |
| Rajeev Kumar                 | NA   | Modeling Covid-19 Transmission Dynamics Using Machine Learning Techniques   | EAI/Springer Innovations in Communication and Computing |
| Vijay Kumar                  | NA   | Modeling Covid-19 Transmission Dynamics Using Machine Learning Techniques   | EAI/Springer Innovations in Communication and Computing |
| Richa Gupta and Deepak Kumar | Mathematical Models on Diabetes Mellitus and Its Complications | NA  | NA  |

|  |   |   |   |
|--|---|---|---|
| Khushali Tyagi,<br>Deepak Kumar,<br>Richa Gupta                | NA  | Application of Genetic Algorithm to optimize the Age-wise and Gender-wise growth of diabetes population in India                          | International Conference on Machine Learning, Big Data, Cloud and Parallel Computing (COM-IT-CON) |
| Bhanu Sharma,<br>Deepak Kumar,<br>Pooja Khura                  | NA  | Computational model of SIR and Age-Dependent Epidemic Disease   | International Conference on Machine Learning, Big Data, Cloud and Parallel Computing (COM-IT-CON) |
| Bura, D.,<br>Singh, M.,<br>ndal, P., Khura,<br>P.              | NA  | Efficient Hybrid Technique for Devanagari Numerals Recognition  | International Conference on Machine Learning, Big Data, Cloud and Parallel Computing (COM-IT-CON) |
| Sharma, B.,<br>Kumar, D.,<br>Khura, P.                         | NA  | Computational model of SIR and Age-Dependent Epidemic Disease   | International Conference on Machine Learning, Big Data, Cloud and Parallel Computing (COM-IT-CON) |
| Richa Gupta<br>and Deepak<br>Kumar                             | Mathematical Models on Diabetes Mellitus and its Complications  | NA  | NA  |
| Khushali Tyagi,<br>Deepak Kumar,<br>Richa Gupta                | NA  | Application of Genetic Algorithm to optimize the Age-wise and Gender-wise growth of diabetes population in India                          | International Conference on Machine Learning, Big Data, Cloud and Parallel Computing (COM-IT-CON) |
| Sharma, B.,<br>Kumar, D.,<br>Khura, P.                         | NA  | Computational model of SIR and Age-Dependent Epidemic Disease   | International Conference on Machine Learning, Big Data, Cloud and Parallel Computing (COM-IT-CON) |
| Vijay Kumar,<br>Jyoti Chawla,<br>Rajeev Kumar<br>and Arti Saxe | (Book Chapter)<br>Modeling Covid-19 Transmission Dynamics Using Machine Learning Techniques               | NA  | NA  |
| Deepak Kumar<br>and Pooja<br>Khura                             | NA  | Mathematical Modeling of Type -2 Diabetes Mellitus as a Risk Factor for Cancer-Journal of Physics: Conference Series, Vol. 1850 - 012053. | NA  |
| Deepak Kumar<br>and Pooja<br>Khura                             | Ebling Healthcare 4.0 for Pandemics: A Roadmap Using AI, Machine Learning, IoT and Cognitive Technologies | Mathematical Insight of COVID-19 Infection—A Modeling Approach  | NA  |



### Board of Studies

| <b>Department of Applied Sciences</b> |                     |  |                 |
|---------------------------------------|---------------------|--|-----------------|
| 1                                     | Dr. Jyoti Chawla    | Professor & Head-Dept of Applied Sciences                                | Chairman        |
| 2                                     | Dr. Devi Singh      | Professor, Dept of Applied Sciences                                      | Member          |
| 3                                     | Dr. Vijay Kumar     | Professor, Dept of Applied Sciences                                      | Member          |
| 4                                     | Dr. Anupama Rajput  | Professor, Dept of Applied Sciences                                      | Member          |
| 5                                     | Dr. Deepak Kumar    | Professor, Dept of Applied Sciences                                      | Member          |
| 6                                     | Dr. Shagufta Jabin  | Associate Professor, Dept of Applied Sciences                            | Member          |
| 7                                     | Dr. Nisha Bansal    | Associate Professor, Dept of Applied Sciences                            | Member          |
| 8                                     | Mr. Kapil Gupta     | Assistant Professor, Dept of Applied Sciences                            | Member          |
| 9                                     | Dr. Kalpna Varshney | Assistant Professor, Dept of Applied Sciences                            | Member          |
| 10                                    | Dr. Pardeep Kumar   | PVC, MRIIRS  | Special invitee |
| 11                                    | Dr. P. K. Bhatnagar | Professor Emeritus, Dept. of Electronic Science, Delhi University, Delhi | External Member |
| 12                                    | Dr. Vikas Bhardwaj  | Sr. Scientist , NCEGR, Geological Survey of India, Faridabad             | External Member |
| 13                                    | Dr. Y. K. Sharma    | Associate Professor, Maths, Manav Rachna University, Faridabad           | External Member |

| <b>Department of Aeronautical Engineering</b> |                           |  |                 |
|---|---------------------------|--|-----------------|
| 1   | Air Cmde. Devender Sharma | Professor & Head, Dept. of Aeronautical Engg.  | Chairman        |
| 2   | Dr. Virender Narula       | Professor, Dept. of Mechanical Engg.   | Member          |
| 3   | Col (R) Sachin Marwah     | Associate Professor, Dept. of Aeronautical Engg.                                     | Member          |
| 4   | Ms. Sonal Gupta           | Assistant Professor, Dept. of Aeronautical Engg.                                     | Member          |
| 5   | Mr. Vishal Antil          | Assistant Professor, Dept. of Aeronautical Engg.                                     | Member          |
| 6   | Mrs. Sabiha Parveen       | Assistant Professor, Dept. of Aeronautical Engg.                                     | Member          |
| 7   | Dr. R S Tarnacha          | Professor, Dept of Aeronautical Engg., Amity University, Noida                       | External Member |
| 8   | Dr. Balraj Gupta          | Former Director (Scientist G) Aerial Delivery Research and Development Establishment | External Member |

| <b>Department of Biotechnology</b> |                       |                         |                 |
|------------------------------------|-----------------------|-------------------------|-----------------|
| 1                                  | Dr. Manu Solanki      | Professor, BT           | Chairman        |
| 2                                  | Dr. Sarita Sachdeva   | Professor, BT           | Member          |
| 3                                  | Dr. Abhilasha Shourie | Professor, BT           | Member          |
| 4                                  | Dr. Sabiha Imran      | Professor, BT           | Member          |
| 5                                  | Dr. Nidhi Didwania    | Professor, BT           | Member          |
| 6                                  | Dr. Rashmi Rameshwari | Associate Professor, BT | Member          |
| 7                                  | Dr. Kanchan Bhardwaj  | Associate Professor, BT | Member          |
| 8                                  | Dr. Kapila Kumar      | Assistant Professor     | Member          |
| 9                                  | Dr. Jayant Maini      | Assistant Professor     | Member          |
| 10                                 | Dr. Arif Ali          | Professor               | External Member |
| 11                                 | Dr. Neera Kapoor      | Professor               | External Member |

| <b>Department of Civil Engineering</b>                           |                        |   |                 |
|--|------------------------|---|-----------------|
| 1  | Dr. Sunita Bansal      | Professor & HOD, Dept. of Civil Engineering, FET  | Chairman        |
| 2  | Dr. Sadiqa Abbas       | Professor, Dept. of Civil Engineering, FET  | Member          |
| 3  | Dr. Anjali Gupta       | Professor, Dept. of Civil Engineering, FET  | Member          |
| 4  | Dr. Dev Dutt           | Associate Professor, Dept. of Mechanical Engineering, FET                               | Member          |
| 5  | Mr. Aftab Alam         | Assistant Professor, Dept. of Civil Engineering, FET                                    | Member          |
| 6  | Mr. Yaman Hooda        | Assistant Professor, Dept. of Civil Engineering, FET                                    | Member          |
| 7  | Dr. Anil Sahu          | Professor, Dept. of Civil Engineering, Delhi Technological University, Delhi            | External Member |
| 8  | Dr. Krishan Mohan      | Former Director General, National Council for Cement and Building Materials, Ballabgarh | External Member |
| <b>Department of Computer Science and Engineering</b>            |                        |   |                 |
| 1  | Dr. Supriya P. Panda   | Professor & Head (CSE)  | Chairperson     |
| 2  | Dr. Suresh Kumar       | Professor   | Member          |
| 3  | Dr. Brijesh Kumar      | Professor   | Member          |
| 4  | Dr. Indu Kashyap       | Professor   | Member          |
| 5  | Dr. Meenakshi          | Professor   | Member          |
| 6  | Dr. Charu Virmani      | Professor   | Member          |
| 7  | Dr. Subhajit Ghosh     | Professor   | Member          |
| 8  | Ms. Simple Sharma      | Associate Professor   | Member          |
| 9  | Dr. Seema Verma        | Associate Professor   | Member          |
| 10   | Dr. Deepa Bura         | Assistant Professor   | Member          |
| 11   | Ms. Manisha Vashisht   | Assistant Professor   | Member          |
| 12   | Dr. Komal Bhatia       | Professor   | External Member |
| 13   | Er. N K Garg           | Vice President  | External Member |
| <b>Department of Mechanical Engineering</b>                      |                        |   |                 |
| 1  | Dr. Manoj Nayak        | Professor & Head, Dept. of Mechanical Engineering                                       | Chairman        |
| 2  | Dr. Basanta K. Bhuyan  | Professor, MED  | Member          |
| 3  | Dr. Virender Narula    | Professor, MED  | Member          |
| 4  | Dr. Abhishek Kumar     | Associate Professor, MED  | Member          |
| 5  | Dr. Devdutt            | Associate Professor, MED  | Member          |
| 6  | Dr. Rajender Kumar     | Asst. Professor, MED  | Member          |
| 7  | Mr. Anubhav Khandelwal | Asst. Professor, MED  | Member          |
| 8  | Dr. Sandeep Grover     | Professor, Mechanical Engineering, YMCAUST, Faridabad                                   | External Member |
| 9  | Mr. Nepal Singh        | Chief Manager, NSIC, Neemka, Faridabad  | External Member |
| <b>Department of Electronics &amp; Communication Engineering</b> |                        |   |                 |
| 1  | Dr. Abhiruchi Passi    | Professor & Head, ECE   | Chairman        |

|    |                            |  |                 |
|----|----------------------------|--|-----------------|
| 2  | Dr. Naresh Grover          | Professor & PVC, MRIIRS                    | Member          |
| 3  | Dr. Geeta Nijhawan         | Professor & Associate Dean, FET            | Member          |
| 4  | Dr. Yogender Kumar Awasthi | Professor                                  | Member          |
| 5  | Dr. Vimlesh Singh          | Associate Professor, ECE                   | Member          |
| 6  | Dr. Umesh Dutta            | Associate Professor, ECE & Director, MRIIC | Member          |
| 7  | Dr. Jyoti Verma            | Assistant Professor                        | Member          |
| 8  | Ms. Purna Kakkar           | Assistant Professor, ECE                   | Member          |
| 9  | Dr. Munish Vashishth       | Professor, JC Bose University, FBD         | External Member |
| 10 | Mr. Saurabh Garg           | Agnity Communications Pvt Ltd.             | External Member |

#### **Department of Electrical & Electronics Engineering**

|   |                          |   |                 |
|---|--------------------------|---|-----------------|
| 1 | Dr. Leena G.             | Professor & Head, EEE, FET, MRIIRS  | Chairperson     |
| 2 | Dr. Geeta Nijhawan       | Professor & Associate Dean, FET   | Member          |
| 3 | Dr. Anita Khosla         | Professor, EEE, FET, MRIIRS   | Member          |
| 4 | Dr. Vimlesh Singh        | Associate Professor, EEE, FET, MRIIRS   | Member          |
| 5 | Dr. Ashish Grover        | Assistant Professor, EEE, FET, MRIIRS   | Member          |
| 6 | Dr. Amrinder Kaur        | Assistant Professor, EEE, FET, MRIIRS   | Member          |
|   | Dr. Richa Adalakha       | Assistant Professor, EEE, FET, MRIIRS   | Member          |
| 7 | Dr. Abdul Quaiyum Ansari | Professor, Electrical Engineering Department, Faculty of Engineering & Technology, Jamia Millia Islamia Central University, New Delhi                       | External Member |
| 8 | Mr. Sunny Mittal         | Regional Head-North East and SAARC1, BoSCH Ltd, Building Technologies Division, Metro Station, Rishyamook, 85 A, PanchkuianMarg, Connaught Place, New Delhi | External Member |

#### **Department of Automobile Engineering**

|   |                      |   |                 |
|---|----------------------|---|-----------------|
| 1 | Dr. Devendra Vashist | Professor & Head Chairman Dept. of Automobile Engg. | Chairman        |
| 2 | Dr. Virender Narula  | Professor, Member Dept. of Mechanical Engg.         | Member          |
| 3 | Dr. Dev Dutt         | Associate Professor, Dept. of Mechanical Engg.      | Member          |
| 4 | Mr. Sunny Bhatia     | Assistant Professor, Dept. of Automobile Engg       | Member          |
| 5 | Mr. Gurpreet Singh   | Assistant Professor, Dept. of Automobile Engg       | Member          |
| 6 | Mr. Sagar Maji       | Professor, DTU, Delhi                               | External Member |
| 7 | Mr. Sharad Pradhan   | General Manager, CSR, HONDA                         | External Member |



|                     |                     |          |
|---------------------|---------------------|----------|
| Simran Kaur         | Associate Professor | Commerce |
| Preeti Chhabra      | Associate Professor | Commerce |
| Arun Vashista       | Assistant Professor | Commerce |
| Monika Goel         | Professor           | Commerce |
| Arkaja Garg         | Assistant Professor | Commerce |
| Shilpa Bhatia       | Assistant Professor | Commerce |
| Priyanka Srivastava | Assistant Professor | Commerce |
| Vibhooti Mishra     | Assistant Professor | Commerce |
| Nidhi Tandon        | Assistant Professor | Commerce |



## 1. DEPARTMENT OF COMMERCE

### i) Thrust Area

- Accounting Standards and Auditing
- Mergers and Acquisitions
- Banking and Financial Analysis
- Taxation and Law
- Marketing and E-Commerce
- Entrepreneurship
- Advertising and Sales Promotion

### ii) Academic Achievements

#### a. Student's Publications: 2021-22

| Title of the Paper  | Name of the author (s)     | Student Author | Title of the Journal / Conference / Book   |
|---|----------------------------|----------------|--|
| Empirical Analysis On Buying Behaviour Of Consumer Towards Cosmetic Products In Faridabad City                                | Shivani Malik, Simran Kaur | Shivani Malik  | Journal of the Maharaja Sayajirao University of Baroda   |
| Relationship between Social Media Advertising, E-marketing and Product Quality on Consumer Purchase Behaviour about Cosmetics | Shivani Malik, Simran Kaur | Shivani Malik  | Journal of Jundishapur Journal of Microbiology   |
| Impact of Social Media Marketing on Consumer Buying Behaviour Towards Cosmetic Products                                       | Shivani Malik, Simran Kaur | Shivani Malik  | Journal: SpecialusisUgdymas (SU)   |
| Digital Marketing: A Key To Success IN  | Uma Anurag, Simran Kaur    | Uma Anurag     | Book: MultiDimensional Aspects of Management-Editors Dr. Anjali Singh, Dr. Simran Kaur                         |
| Blended Traditional And Digital Marketing For Empowering Women Artisans: An Empirical Approach                                | Uma Anurag, Simran Kaur    | Uma Anurag     | Book: Women in Education and Work Life-Editors Dr. Himanshi Tiwari, Dr. Anna Majja Lamsa, Dr. Rupert Beinhauer |
| Systematic Literature Review on Digital Marketing in India: Present Scenario  | Uma Anurag, Simran Kaur    | Uma Anurag     | International Conference on Advances in Management Practices   |
| Systematic Literature Review on Digital Marketing in India: Present Scenario  | Uma Anurag, Simran Kaur    | Uma Anurag     | International Conference on Advances in Management Practices   |

**b. Students benefited by career counseling and guidance for competitive Examinations: 2021-22**

| Activity Description   | No. of Participants |
|--|---------------------|
| Digital Transformation-The way of Life   | 65                  |
| Career Opportunities in Banking Sector   | 50                  |
| Career Opportunities in Digital Marketing  | 29                  |
| Academic and Employable Opportunities with Commerce Under Graduates and Post Graduates | 52                  |

**c. Faculty members: Awards & Recognitions: 2021-22**

| Name of Faculty Member | Awards/Recognition  |
|------------------------|---|
| Simran Kaur            | Recognition for publishing patent: Role of Capital Market in Economics Development (12-11-2021)   |
| Nidhi Tandon           | Recognition for publishing patent: Mediating Effect of Consumer Awareness and Perceived value of Consumers in between factors of Green Marketing Mix and Buying Behaviour of Consumers using Structural Equation Modelling Algorithm (27-05-2022) |

**d. FDPs / Workshops / Conferences Attended by Faculty members: 2021-22**

| Name of Faculty Member | Title of FDP/Workshop/Conference   | Date from  | Date to    |
|------------------------|--|------------|------------|
| Arkaja Garg            | FDP on Understanding Human Behaviours in Organizations                                 | 17-08-2021 | 21-08-2021 |
| Arkaja Garg            | FDP on Developing Real Life Case Studies   | 20-12-2021 | 24-12-2021 |
| Arkaja Garg            | FDP on Business Start-ups and Innovation Management recognised by AICTE                | 06-06-2022 | 10-06-2022 |
| Arun Vashista          | FDP on "Research Methodology"  | 21-09-2021 | 05-10-2021 |
| Arun Vashista          | FDP on "Advanced Research Methodology"   | 20-08-2021 | 03-09-2021 |
| Arun Vashista          | FDP on Business Start-ups and Innovation Management recognised by AICTE                | 06-06-2022 | 10-06-2022 |
| Arun Vashista          | AICTE Training And learning(ATAL)Academy Online Elementary FDP on Research Methodology | 26-07-2021 | 30-07-2021 |
| Arun Vashista          | Online Two Week Interdisciplinary Refresher Course-FDP on Research Methodology         | 21-09-2021 | 05-10-2021 |
| Arun Vashista          | Online Two Week Interdisciplinary Refresher Course/FDP Advanced Research Methodology   | 20-08-2021 | 03-09-2021 |
| Jayender Verma         | FDP on Business Start-ups and Innovation Management recognised by AICTE                | 06-06-2022 | 10-06-2022 |
| Nidhi Tandon           | FDP on "Digital Marketing"   | 26-07-2021 | 30-07-2021 |
| Nidhi Tandon           | FDP on "Strategy: Concept and Application"   | 22-10-2021 | 26-10-2021 |
| Priyanka Srivastava    | FDP on Effective Teaching Learning using Social Media recognised by AICTE              | 06-06-2022 | 10-06-2022 |
| Shilpa Bhatia          | FDP on Effective Teaching Learning using Social Media recognised by AICTE              | 06-06-2022 | 10-06-2022 |
| Simran Kaur            | Faculty Development Program on "Organizational Behavior"                               | 12-07-2021 | 16-07-2021 |
| Simran Kaur            | FDP on "Developing Real Life Case Studies  | 20-12-2021 | 24-12-2021 |
| Simran Kaur            | FDP on NEP 2020 Implementation in Higher Education Institutes recognised by AICTE      | 09-05-2022 | 13-05-2022 |
| Simran Kaur            | FDP on Business Start-ups and Innovation Management recognised by AICTE                | 06-06-2022 | 10-06-2022 |
| Vibhooti Mishra        | FDP on "Research Methodology"  | 21-09-2021 | 05-10-2021 |
| Vibhooti Mishra        | FDP on "Advanced Research Methodology"   | 20-08-2021 | 03-09-2021 |

|                 |  |            |            |
|-----------------|--|------------|------------|
| Vibhooti Mishra | FDP on "FinTech: Innovation and Transformation in Financial Market and Investment Strategies | 05-07-2021 | 09-07-2021 |
|-----------------|--|------------|------------|

#### e. Events Organised: 2021-22

| Title   | From Date  | To Date    |
|---|------------|------------|
| Faculty Recharge Program on A deep dive into the areas of research and publications-Professional Development Program for teaching staff | 12-11-2021 | 12-11-2021 |
| ATAL Faculty Development Program on Developing Real Life Case Studies-Professional Development Program for teaching staff               | 20-12-2021 | 24-12-2021 |
| STC on Entrepreneurship Development and Industrial Coordination in collaboration with NITTTR Chandigarh                                 | 06-06-2022 | 10-06-2022 |
| STC on Effective Teaching Learning using Social Media in collaboration with NITTTR Chandigarh   | 06-06-2022 | 10-06-2022 |

#### f. Faculty Research Papers: 2021-22

| Title of Paper   | Name of Authors                       | Name of Journal   | Year of Publication |
|--|---------------------------------------|---|---------------------|
| An Investigation of Consumer Psychology and Perceptions and their Impact on Performance Management   | Dr Nidhi Tandon                       | Vidyabharati International Interdisciplinary Research Journal (Special Issue) | 2021-22             |
| Circular Trading:Detection Algorithm Based on Graph Theory   | Monika Goel                           | Design Engineering  | 2021-22             |
| Corporate Social Responsibility & Sustainable Business   | Preeti Chhabra                        | The Journal of Oriental Research Madras                                       | 2021-22             |
| Determinants Of Consumer Preference Towards Private Label And Manufacturer Brands In Organized Packaged Food Retailing: A Factor Analysis Approach | Dr Nidhi Tandon and Dr Jayender Verma | International Journal of Indian Culture and Business Management               | 2021-22             |
| Empirical Analysis On Buying Behaviour Of Consumer Towards Cosmetic Products In Faridabad City   | Simran Kaur                           | Journal of the Maharaja Sayajirao University of Baroda                        | 2021-22             |
| Evolution of Indian Tax System – Tax Policy, e-initiatives and administrative reforms  | Monika Goel                           | SPECIALUSIS UGDYMAS / SPECIAL EDUCATION                                       | 2021-22             |
| Impact of Goods And Service Tax on Tourism Industry with Focus on Tour Operator and Hotel Industry   | Monika Goel                           | International Journal of Mechanical Engineering                               | 2021-22             |
| Impact of Social Media Marketing on Consumer Buying Behaviour Towards Cosmetic Products  | Simran Kaur                           | SpecialusisUgdymas (SU)   | 2021-22             |
| Income Tax reforms – Transforming Tax administration through Faceless  | Monika Goel                           | SPECIALUSIS UGDYMAS / SPECIAL EDUCATION                                       | 2021-22             |

| Assessment  |                                 |   |         |
|---|---------------------------------|---|---------|
| Journal of equation Modeling Approach to Shaping of Differences in private label adoption in groceries segment                | Nidhi Tandon and Jayender Verma | Journal of Contemporary Issues in Business and Government | 2021-22 |
| Price-An Overhyped Indicator in Tourism   | Monika Goel                     | Natural Volatiles &Essential Oils                         | 2021-22 |
| Relationship between Social Media Advertising, E-marketing and Product Quality on Consumer Purchase Behaviour about Cosmetics | Simran Kaur                     | Journal of Jundishapur Journal of Microbiology            | 2021-22 |
| Work Stress Management in an Organisation with the Role of HRM  | Preeti Chhabra                  | Journal of Positive School Psychology                     | 2021-22 |

#### g. Book Chapters: 2021-22

| Name of the teacher       | Title of the book/chapters published  | Title of the paper                               | Title of the proceedings of the conference |
|---------------------------|---|--|--|
| Nidhi Tandon              | Transforming Management Using Artificial Intelligence Techniques, Chapter 7 Contemporary Trends in Education Transformation Using Artificial Intelligence | NA   | NA   |
| Simran Kaur               | Transforming Management Using Artificial Intelligence Techniques, Chapter 7 Contemporary Trends in Education Transformation Using Artificial Intelligence | NA   | NA   |
| Anjali Singh, Simran Kaur | Multidimensional Aspects of Management.   | Innovation Management in Present Indian Scenario | NA   |
| Amit Seth, Monika Goel    | Real Life Management Case Studies-Developed In Factual Conversation with Industry Leaders, Bhartiya Valves Pvt Ltd.- A Case of Entrepreneurial Excellence | NA   | NA   |
| Nidhi Tandon              | Marketing & Management In Business Development  | NA   | NA   |
| Simran Kaur               | MultiDimensional Aspects of Management  | NA   | NA   |
| Simran Kaur               | Socio-Economic Implications of Human Resource Management in Contemporary World  | NA   | NA   |

|  |   |    |  |
|--|---|----|--|
| Nidhi Tandon,<br>Sandeep Tandon<br>and Simran Kaur                   | MultiDimensional Aspects of<br>Management   | NA | Digital Transformation for<br>Sustainability of Business                                 |
| Simran Kaur and<br>Uma Anurag  | MultiDimensional Aspects of<br>Management   | NA | Digital Marketing: A Key To<br>Success   |
| Nidhi Tandon,<br>Jayender Verma<br>and Simran Kaur                   | MultiDimensional Aspects of<br>Management   | NA | The Relationship Between<br>Entrepreneurship and<br>Strategic Management<br>Concept      |
| Simran Kaur,<br>Tanmay Mishra,<br>Santhi Naryanan,<br>Rishabh Tandon | REAL LIFE MANAGEMENT CASE<br>STUDIES  | NA | Case Study- People<br>Management Strategies<br>during<br>Pandemic Times to New<br>Normal |
| Gurpreet Singh<br>Matharou<br>Simran Kaur                            | Selection and Fabrication of HMMC<br>(AL6063-SIC-B4C-MG)', Recent<br>Developments in Nanofibers<br>Research | NA | NA   |

## 2. DEPARTMENT OF BUSINESS STUDIES

### i) Thrust Area

- Brand Management
- International Marketing and E-Commerce
- Banking and Financial Analysis
- International Business
- Mergers and Acquisition
- Digital Marketing

### ii) Academic Achievements

#### a. Students benefited by career counseling and guidance for competitive Examinations: 2021-22

| Activity Description                           | No. of Participants |
|--|---------------------|
| EXCEL O MANIA                                  | 75                  |
| Communication and Leadership                   | 115                 |
| Career Counseling: Electives and MOOCs courses | 50                  |

**b. Student progression to higher education during the year: 2021-22**

| Name of students enrolled for higher education | Graduated from which Programme | Name of institution joined  | Admitted to (Name of Programme) |
|--|--------------------------------|---|---------------------------------|
| Abhishek                                       | B.Com (Hons)                   | Maharshi Dayanand University Rohtak Haryana                           | MBA                             |
| Bhumika Sharma                                 | B.Com (Hons)                   | Manav Rachna International Institute of Research and Studies, Haryana | MBA                             |
| Dipanshu Sapra                                 | B.Com (Hons)                   | Manav Rachna University, Haryana                                      | MBA                             |
| Khushi Singla                                  | B.Com (Hons)                   | Inter-National Institute of Fashion Design, Delhi                     | PG Fashion Design               |
| Manvi Mittal                                   | B.Com (Hons)                   | Manav Rachna International Institute of Research and Studies, Haryana | MBA                             |
| Muskan Aggarwal                                | B.Com (Hons)                   | Jagannath Institute of Management Studies, Delhi                      | PGGM(IB)                        |
| Payal Mittal                                   | B.Com (Hons)                   | Rawal Institute of Management, Haryana                                | MBA                             |
| Resham Sharma                                  | B.Com (Hons)                   | Graphic Era University, Dehradun                                      | MBA                             |
| Vanshika Mittal                                | B.Com (Hons)                   | Jagannath Institute of Management Studies, Delhi                      | PGGM(IB)                        |
| Akansha Bhatia                                 | B.Com (Hons)                   | The Institutes of cost accountants of India, Delhi                    | CMA                             |
| Gulshan  | B.Com (Hons)                   | Chandigarh University, Chandigarh                                     | MBA                             |
| Jiya Dubey                                     | B.Com (Hons)                   | Manav Rachna International Institute of Research and Studies, Haryana | M Com                           |
| Sheetal Chawla                                 | B.Com (Hons)                   | Amity University Noida U.P.   | MBA                             |
| Vivek Yadav                                    | B.Com (Hons)                   | International School of Business & Media, Nande, Pune                 | PGDM                            |
| Yash Chopra                                    | B.Com (Hons)                   | Management Education and Research Institute, IPU                      | MBA                             |
| Yashika Chopra                                 | B.Com (Hons)                   | Management Education and Research Institute, IPU                      | MBA                             |

|                  |   |   |                            |
|------------------|---|---|----------------------------|
| Chirag Ahuja     | B.Com (Hons)                                | NarseeMonjee Institute of Management Studies, Mumbai                  | DBFM                       |
| Komal Bhadana    | B.Com (Hons)                                | Manav Rachna International Institute of Research and Studies, Haryana | M Com                      |
| Tanmay Goyal     | B.Com (Hons)                                | JC Bose University of Science and Technology, Haryana                 | MBA                        |
| Ayush Nagar      | B.Com (Hons)                                | Manav Rachna International Institute of Research and Studies, Haryana | MBA                        |
| Deepak Dayma     | B.Com (Hons)                                | KIIT College of engineering   | MBA                        |
| Tanisha Bhardwaj | B.Com (Hons)                                | Graphic Era, Dehradun, U.P.   | MBA                        |
| Chetna           | Bachelor of Business Administration-General | Sault College Toronto Campus, Canada                                  | Global Business Management |
| Sahil Gandhi     | Bachelor of Business Administration-General | New Delhi Institute of Management, Delhi                              | PGDM                       |
| Yuvraj Sharma    | Bachelor of Business Administration-General | ICFAI Business School (IBS) - Gurugram                                | PGDM                       |
| Akshay           | Bachelor of Business Administration-General | Swami Vivekanand Subharti Univ  | MBA                        |
| Anshika Verma    | Bachelor of Business Administration-General | Bhartiya VidyaPeeth, Delhi  | MBA                        |
| Nisha Mehra      | Bachelor of Business Administration-General | Indira Gandhi National Open University -IGNOU, Delhi                  | MBA                        |
| Vivek Kumar Roy  | Bachelor of Business Administration-General | Sharda School of Business Studies, U.P.                               | MBA                        |
| Nida Ahmad       | Bachelor of Business Administration-General | Jamia Millia Islamia, Delhi   | MBA                        |
| Vartika Sinha    | Bachelor of Business Administration-General | Birla Institute of Technology   | MBA                        |
| Hardik Sharma    | Bachelor of Business Administration-General | Amity University, Noida, U.P.   | LLB                        |

|                 |   |  |                      |
|-----------------|---|--|----------------------|
| Tanya Shah      | Bachelor of Business Administration-General | Pearl Academy, Delhi   | PG Fashion Designing |
| Ritika Singh    | Bachelor of Business Administration-General | LLM  | MBA                  |
| Vanshika Vats   | Bachelor of Business Administration-General | Graphic Era University, Dehradun                                     | MBA                  |
| Sanya Ahluwalia | Bachelor of Business Administration-General | Lal Bahadur Shastri Institute of Management Business school in Delhi | PGDBM                |
| Pulkit Gupta    | Bachelor of Business Administration-General | Regent University London   | MBA                  |
| Ritvik Vaid     | BBA GENERAL MRIIRS                          | Guru Gobind Singh Indraprastha University, New Delhi                 | MBA                  |

### c. FDPs/Conferences Attended: 2021-22

| Name of the Faculty member | Title of the Event  | Date From  | Date to    |
|----------------------------|---|------------|------------|
| Anjali Singh               | FDP on Developing Real Life Case Studies  | 20-12-2021 | 24-12-2021 |
| Anjali Singh               | Problem based teaching learning process   | 25-10-2021 | 29-10-2021 |
| Anjali Singh               | FDP on Effective Teaching Learning using Social Media recognised by AICTE         | 06-06-2022 | 10-06-2022 |
| Anjali Singh               | FDP on NEP 2020 Implementation in Higher Education Institutes recognised by AICTE | 09-05-2022 | 13-05-2022 |
| Arvind Dalal               | FDP on Effective Teaching Learning using Social Media recognised by AICTE         | 06-06-2022 | 10-06-2022 |
| Narinder Tanwar            | FDP on Developing Real Life Case Studies  | 20-12-2021 | 24-12-2021 |
| Narinder Tanwar            | FDP on Effective Teaching Learning using Social Media recognised by AICTE         | 06-06-2022 | 10-06-2022 |
| Neha Wadhawan              | FDP on Developing Real Life Case Studies  | 20-12-2021 | 24-12-2021 |
| Urvashi Sharma             | Leadership Mastery through self management  | 27-12-2021 | 31-12-2021 |

|                |   |            |            |
|----------------|---|------------|------------|
| Urvashi Sharma | FDP on Effective Teaching Learning using Social Media recognised by AICTE         | 06-06-2022 | 10-06-2022 |
| Urvashi Sharma | FDP on NEP 2020 Implementation in Higher Education Institutes recognised by AICTE | 09-05-2022 | 13-05-2022 |

#### d. Faculty members: Awards & Recognitions: 2021-22

| Name of Faculty Member | Awards/Recognition  |
|------------------------|---|
| Madhumita Mahapatra    | Recognition for publishing patent: Method For Effective Medical Supply Management Using Blockchain And Machine Learning (18-06-2021)  |
| Neha Wadhawan          | Recognition for publishing patent: Smart Safety Bracelet (09-10-2021)   |
| Amit Kumar             | Recognition for Patent Published Titled: Smart Production Monitoring and Management System (05-01-2022)                               |
| Amit Kumar             | Recognition for publishing patent: Design of Solar Extension Board  |
| Madhumita Mahapatra    | Recognition for publishing patent: Design of Solar Extension Board  |
| Neha Wadhawan          | Recognition for publishing patent: Design of Solar Extension Board  |
| Priyanka Bhayana       | Recognition for publishing patent: Design of Solar Extension Board  |
| Priyanka Bhayana       | Recognition for publishing patent: Smart Production Monitoring and Management System (05-01-2022)                                     |
| Kirti Khanna           | Recognition for publishing patent: Bitcoin Price Prediction Technique using Artificial Intelligence And Machine Learning (07-01-2022) |
| Vinit Sikka            | Patent Published & Under Examination: A Algorithm based on Deep Learning for the Detection of Covid-19 Infections (14-01-2022)        |
| Anjali Singh           | Patent Published & Under Examination: A Algorithm based on Deep Learning for the Detection of Covid-19 Infections (14-01-2022)        |

#### e. Events Organised: 2021-22

| Title   | From Date  | To Date    |
|---|------------|------------|
| Faculty Recharge Program on A deep dive into the areas of research and publications-Professional Development Program for teaching staff | 12-11-2021 | 12-11-2021 |
| ATAL Faculty Development Program on Developing Real Life Case Studies-Professional Development Program for teaching staff               | 20-12-2021 | 24-12-2021 |
| STC on Entrepreneurship Development and Industrial Coordination in collaboration with NITTTR Chandigarh                                 | 06-06-2022 | 10-06-2022 |
| STC on Effective Teaching Learning using Social Media in collaboration with NITTTR Chandigarh   | 06-06-2022 | 10-06-2022 |

**f. Faculty Research Papers: 2021-22**

| Title of Paper  | Name of The Author/S   | Name of Journal                                       | Year of Publication |
|---|--|---|---------------------|
| Human Development Equally Important For Economic Development                  | Urvashi Sharma, Arvind Dalal and Rk Arya                         | Turkish Journal of Computer and Mathematics Education | 2021-22             |
| Interest Rate Certainty In Lost High Hopes On Growth Projection               | Arvind Dalal and Rk Arya   | Elementary education online                           | 2021-22             |
| Nature And Dimension Of Business Risk In Downstream Natural Gas Distribution  | Narinder Tanwar  | PSYCHOLOGY AND EDUCATION                              | 2021-22             |
| Post Merger Financial Analysis On Bank Mega Merger An Empirical Study 2019-20 | Neha Wadhawan, Priyanka Bhayana, Madhumita Mahapatra, Amit Kumar | Elementary education online                           | 2021-22             |
| Tricky Growth   | Urvashi Sharma and Rk Arya                                       | Elementary education online                           | 2021-22             |

**g. Book Chapters: 2021-22**

| Name of the Teacher       | Title of the book/chapters published    | Title of the Paper                                | Title of the proceedings of the conference |
|---------------------------|---|---|--|
| Anjali Singh, Simran Kaur | Multidimensional Aspects of Management. | Innovation Management in Present Indian Scenario' | NA   |

**Details of Board of Faculty and Board of Studies are tabulated below:**

| <b>Board of Faculty</b> |                     |  |                    |
|-------------------------|---------------------|--|--------------------|
| 1                       | Dr. Monika Goel     | Dean FCBS  | <b>Chairperson</b> |
| 2                       | Mr. Narinder Tanwar | Prof. & Head, Department of Business Studies         | Member             |
| 3                       | Dr. Jayender Verma  | Prof. & Head, Department of Commerce                 | Member             |
| 4                       | Dr. Rakesh Arya     | Professor, Department of Business Studies            | Member             |
| 5                       | Dr. Swati Watts     | Associate. Professor, Department of Business Studies | Member             |
| 6                       | Ms. Nidhi Tandon    | Asst. Professor. Department of Commerce              | Member             |
| 7                       | Ms. Ratika Agarwal  | Asst. Professor. Department of Commerce              | Member             |
| 8                       | Ms. Alka Kapoor     | Jt. Secretary (Sr. Grade)                            | Invitee            |
| 9                       | CA Manish Kumar     | Partner  | External Member    |
| 10                      | Dr. B S Bodla       | Director,  | External Member    |

| <b>Boards of Studies</b>              |                        |  |                 |
|---------------------------------------|------------------------|--|-----------------|
| <b>Department of Business Studies</b> |                        |  |                 |
| 1                                     | Dr. Narender Tanwar    | Professor & Head Dept. of Business Studies   | Chairman        |
| 2                                     | Dr. Amit Seth          | Professor & Director, Dept. of Business Studies  | Member          |
| 3                                     | Dr. Rakesh Kumar Arya  | Professor Dept. of Business Studies  | Member          |
| 4                                     | Dr. Swati Watts        | Associate Professor, Dept. of Business Studies   | Member          |
| 5                                     | Dr. Anjali Singh       | Assistant Professor, Dept. of Business Studies   | Member          |
| 6                                     | Dr. Arvind Dalal       | Assistant Professor, Dept. of Business Studies   | Member          |
| 7                                     | Mr. PulockBhattacharji | Vice President, BSE<br>Plot no.23, 101, Aggarwal Corporate Tower,<br>Rajendra Place, New Delhi -110008 | External Member |
| 8                                     | Dr. Ashutosh Nigam     | JC Bose University of Science and Technology,<br>YMCA, Faridabad                                       | External Member |

| <b>Department of Commerce</b> |                      |                                   |                 |
|-------------------------------|----------------------|-----------------------------------|-----------------|
| 1                             | Dr Jayender Verma    | Professor & Head-Dept of Commerce | Chairman        |
| 2                             | Dr Monika Goel       | Professor, Dean FCBS              | Member          |
| 3                             | Dr Preeti Chhabra    | Associate Professor               | Member          |
| 3                             | Dr Simran Kaur       | Assistant Professor               | Member          |
| 4                             | Dr Nidhi Tandon      | Assistant Professor               | Member          |
| 5                             | Mr Arun Vashishta    | Assistant Professor               | Member          |
| 6                             | MrPulockBhattacharji | Vice President, BSE Institute     | External Member |
| 7                             | Dr A K Sharan        | Professor, NIFM Faridabad         | External Member |

### 3.3. FACULTY OF ALLIED HEALTH SCIENCES

#### Name of Departments

#### S.No. Name of Department

1. Department of Nutrition & Dietetics

2. Department of Physiotherapy

#### Admission Status:

| Programmes                  |   |                |    |                  |    |
|-----------------------------|---|----------------|----|------------------|----|
| Name of the Faculty         | Programme                                 | Student Intake |    | Total Admissions |    |
|                             |   | UG             | PG | UG               | PG |
| Faculty of Applied Sciences | Bachelor of Physiotherapy (BPT)           | 40             |    | 38               |    |
|                             | B.Sc. Nutrition and Dietetics             | 30             |    | 31               |    |
|                             | B.Sc. (Hons.)-Food Science and Technology | 10             |    | 06               |    |
|                             | Master of Physiotherapy (MPT)             |                | 30 |                  | 32 |
|                             | M.Sc.- Nutrition and Dietetics            |                | 35 |                  | 30 |

#### Faculty of Allied Health Sciences:

#### List of Faculty Members

| Name of the Full-time teacher | Designation                           | Department    |
|-------------------------------|---------------------------------------|---------------|
| Shishir Nigam                 | Assistant Professor                   | Physiotherapy |
| Shobhit Saxena                | Assistant Professor                   | Physiotherapy |
| Preeti Saini                  | Assistant Professor                   | Physiotherapy |
| Gulshan Lal Khanna            | Professor                             | Physiotherapy |
| Jaswinder Kaur                | Assistant Professor & Medical Officer | Physiotherapy |
| Ekta Chitkara                 | Associate Professor                   | Physiotherapy |
| Pooja Sharma                  | Associate Professor                   | Physiotherapy |
| Sumit Arora                   | Assistant Professor                   | Physiotherapy |
| Sunita Kumari                 | Assistant Professor                   | Physiotherapy |
| Shweta Sharma (Physiotherapy) | Assistant Professor                   | Physiotherapy |
| Ankita                        | Assistant Professor                   | Physiotherapy |
| Moattar Raza Rizvi            | Professor                             | Physiotherapy |
| Dikshant Jatwani              | Assistant Professor                   | Physiotherapy |
| Achin Kumar                   | Assistant Professor                   | Physiotherapy |
| Priyanka Sethi                | Assistant Professor                   | Physiotherapy |
| Irshad Ahmad                  | Assistant Professor                   | Physiotherapy |
| Nitesh Malhotra               | Associate Professor                   | Physiotherapy |

|                       |                     |                       |
|-----------------------|---------------------|-----------------------|
| Chandni               | Assistant Professor | Physiotherapy         |
| Jatin Maheshwari      | Assistant Professor | Physiotherapy         |
| Kangana Junega Kansal | Demonstrator        | Physiotherapy         |
| Dheeraj Kumar         | Demonstrator        | Physiotherapy         |
| Gurjeet Kaur Chawla   | Professor           | Nutrition & Dietetics |
| Ankita Sehjpal Sharma | Assistant Professor | Nutrition & Dietetics |
| Divya Sanghi          | Professor           | Nutrition & Dietetics |
| Pratibha Singh        | Professor           | Nutrition & Dietetics |
| Priya Mishra          | Assistant Professor | Nutrition & Dietetics |
| Mahak Sharma          | Associate Professor | Nutrition & Dietetics |
| Divya Puri            | Assistant Professor | Nutrition & Dietetics |
| Gurseen Rakhra        | Assistant Professor | Nutrition & Dietetics |
| Vandana Garg          | Assistant Professor | Nutrition & Dietetics |
| Madhvi Awasthi        | Assistant Professor | Nutrition & Dietetics |
| Srishti Negi          | Assistant Professor | Nutrition & Dietetics |
| Upasana Yadav         | Assistant Professor | Nutrition & Dietetics |
| Lakhvinder Kaur       | Associate Professor | Nutrition & Dietetics |
| Lucy George           | Associate Professor | Nutrition & Dietetics |
| Lavanya M.N           | Assistant Professor | Nutrition & Dietetics |
| Kommi Kalpana         | Associate Professor | Nutrition & Dietetics |
| Deepak                | Assistant Professor | Nutrition & Dietetics |



**Departments at a Glance**

## 1. Department of Nutrition and Dietetics

### i) Thrust Area:

- Clinical Nutrition
- Food Science and Technology
- Public Health and Nutrition
- Sports Nutrition

### ii) Academic Achievements

#### a. Student's Publications: 2021-22

| Title of the Paper   | Name of the author/s | Student Authors | Journal/Conference/Book Title  |
|--|----------------------|-----------------|--|
| The Micronutrient Consumption in Indian Elementary School Children across Socioeconomic Strata | Dr. Divya Sanghi     | Kshitija Patki  | International Journal of Child Health and Nutrition                          |
| Association of flat foot with obesity in middle-aged individuals                               | Dr. Divya Sanghi     | Manish Kumar    | International Journal of Research in Pharmaceutical Sciences                 |
| Association of weight changes and Dietary Behavior During Covid-19 Among College students      | Dr. Pratibha Singh   | Purvi garg      | International Journal of Biology Pharmacy and Allied Health Sciences(IJBPAS) |
| Influence of COVID-19 pandemic on health due to home confinement                               | Dr. Pratibha Singh   | Purvi Garg      | Current Medicine Research and Practice                                       |
| Influence of dietary intake of sleep quality of college student                                | Dr. Pratibha Singh   | Parushi Agrawal | International Journal of Biology Pharmacy and Allied Health Sciences(IJBPAS) |
| An Overview of Challenges Faced in Online Nutritional Counseling                               | Dr. Pratibha Singh   | Muskaan Jain    | GRADIVA REVIEW JOURNAL   |
| Association of Orthorexia Nervosa with mental health disorders:A review                        | Dr. Pratibha Singh   | Stuti sharma    | GRADIVA REVIEW JOURNAL   |

|  |                    |                 |  |
|--|--------------------|-----------------|--|
| Hand grip strength – Nutritional Assessment Tool: A review                                   | Dr Pratibha Singh  | Sumit Kalra     | International Journal of Pharmaceutical Research  Oct -Dec 2021   Vol 13   Issue 4 |
| Impact of celiac disease on reproductive performance of women                                | Dr Pratibha Singh  | Saloni Sharma   | International Journal of Health Sciences,  |
| Nutritional Status of school going children in India: A review                               | Dr. Mahak Sharma   | Brij Pal Singh  | International Journal of Medical Research & Health Sciences                        |
| Nigella Sativa, as preventive strategy in COVID 19   | Dr. Mahak Sharma   | Vaishali Mathur | Current Traditional Medicine   |
| Assessment of food safety knowledge among school teachers of Etawah district during Covid-19 | Dr. Mahak Sharma   | Indumati S      | International Journal of Agriculture and Allied Sciences                           |
| relationship between weight management, shopping mode and lifestyle.                         | Dr. Priya Mishra   | Prashasti Aatre | International Journal of Health Sciences,  |
| Empirical study to determine the relationship between food                                   | Dr. Priya Mishra   | Prashasti Aatre | international journal of health sciences   |
| Changes in eating pattern, physical activity and sleep quality among night shift workers.    | Dr. Gurseen Rakhra | Priyanka        | International Journal of food and Nutritional Sciences                             |
| Effect of oilseeds on cardiovascular health: a review.                                       | Dr. Gurseen Rakhra | Perna Dhingra   | International Journal of creative research thoughts                                |
| Hidden hunger and its interventions to combat the micronutrient deficiencies: a review.      | Dr. Gurseen Rakhra | AAYUSHI Agrawal | International Journal of Innovative Research in Technology                         |
| Effect of food additives on hormonal imbalance in children and its impact on health          | Dr. Gurseen Rakhra | Charu Agrawal   | International Journal of creative research thoughts                                |

|  |                    |                      |  |
|--|--------------------|----------------------|--|
| Sensory Attributes And Flavonoid Content Of Himalayan Rhododendron arboreum Flowers Based Tea  | Dr. Madhvi Awasthi | Deepti Agrwal        | International Journal of Biology, Pharmacy and Allied Sciences |
| Chemical Constituents and Therapeutic Properties of Himalayan Rhododendron arboreum - A Review | Dr. Madhvi Awasthi | Deepti Agrwal        | Journal of biodiversity  |
| A review on usage of nutritional labeling; consumer preferences and choices.                   | Dr. Madhvi Awasthi | Shubhangi Srivastava | Advances in Food Sciences                                      |
| Treating Shoulder Pain with Trigger Point Dry Needling; A Case Report                          | Dr. Madhvi Awasthi | Vikrant Bhardwaj     | Journal of Clinical and Diagnostic Research                    |
| Assessment of Diet and Sleep Quality of Teachers age 30-50 year                                | Ms. Vandana Garg   | Niklu Sasu           | International Journal of Creative Research Thoughts            |
| Trans Fats-A food industry pal or a root of numerous ailments?                                 | Ms. Srishti Negi   | Pragya singh         | Journal of Scientist R Academy                                 |
| Nocturnal Eating Syndrome and its consequences   | Ms. Srishti Negi   | Stuti sharma         | International Journal of Innovative Research in Technology     |

**b. Student progression to higher education during the year:2021-22**

| <b>Name of students enrolled for higher education</b> | <b>Graduated from which Programme</b> | <b>Name of institution joined</b>                                    | <b>Admitted to (Name of Programme)</b> |
|---|---------------------------------------|--|--|
| Akshay Malik  | B.Sc.-Nutrition & Dietetics           | Manav Rachna International Institute of Research and Studies,Haryana | MSc N&D                                |
| Deepanshi Bhatnagar                                   | B.Sc.-Nutrition & Dietetics           | Manav Rachna International Institute of Research and Studies,Haryana | MSc N&D                                |

|                   |                             |  |                                   |
|-------------------|-----------------------------|--|-----------------------------------|
| Khushi Bhati      | B.Sc.-Nutrition & Dietetics | Manav Rachna International Institute of Research and Studies,Haryana | MSc N&D                           |
| Priyanshi Jain    | B.Sc.-Nutrition & Dietetics | Manav Rachna International Institute of Research and Studies,Haryana | MSc N&D                           |
| Satyam Singh      | B.Sc.-Nutrition & Dietetics | University of Westminster, London ( 309 Regent St., London W1B 2HW). | MSc.Sports and Exercise Nutrition |
| Srishti Sethi     | B.Sc.-Nutrition & Dietetics | Sharda University,Noida,U.P  | M.Sc Nutrition and Dietetics      |
| Tannisha Vadhavan | B.Sc.-Nutrition & Dietetics | Symbiosis University Pune  | M.Sc Nutrition and Dietetics      |
| Yashika Bansal    | B.Sc.-Nutrition & Dietetics | Manav Rachna International Institute of Research and Studies,Haryana | MSc N&D                           |
| Cheshta Gera      | B.Sc.-Nutrition & Dietetics | Khalsa College Amritsar  | MSc N&D                           |
| Thungdeno B Kikon | B.Sc.-Nutrition & Dietetics | Manav Rachna International Institute of Research and Studies,Haryana | MSc N&D                           |
| Abir Mazumder     | B.Sc.-Nutrition & Dietetics | Sharda University,Noida,U.P  | M.Sc Nutrition and Dietetics      |
| Bhavyanshi        | B.Sc.-Nutrition & Dietetics | Coventry University  | MSc Global Healthcare Management  |

|                 |                              |   |                              |
|-----------------|------------------------------|---|------------------------------|
| Devanshi Kumari | B.Sc.-Nutrition & Dietetics  | Manav Rachna International Institute of Research and Studies, Haryana | M.Sc Nutrition and Dietetics |
| Neha Chauhan    | B.Sc.-Nutrition & Dietetics  | Chandigarh University, Chandigarh                                     | M.Sc Nutrition and Dietetics |
| Nehal Guruwani  | B.Sc.-Nutrition & Dietetics  | Jaipur National university  | M.Sc Clinical Nutrition      |
| Nikita Gupta    | B.Sc.-Nutrition & Dietetics  | Amity University Noida U.P.   | M.Sc Nutrition and Dietetics |
| Shipra Arora    | B.Sc.-Nutrition & Dietetics  | Manav Rachna International Institute of Research and Studies, Haryana | M.Sc Nutrition and Dietetics |
| Sonal Aswal     | B.Sc.-Nutrition & Dietetics  | Manav Rachna International Institute of Research and Studies, Haryana | M.Sc Nutrition and Dietetics |
| Soumya Tyagi    | B.Sc.-Nutrition & Dietetics  | Manav Rachna International Institute of Research and Studies, Haryana | M.Sc Nutrition and Dietetics |
| Utkarsh Dev     | B.Sc.-Nutrition & Dietetics  | Guru Nanak Dev University, Amritsar                                   | M.Sc Sports Nutrition        |
| Yashika Bharti  | B.Sc.-Nutrition & Dietetics  | Amity University Noida U.P.   | M.Sc Nutrition and Dietetics |
| Priyanka Jain   | BSc. Nutrition and Dietetics | Manav Rachna International Institute of Research and Studies          | M.Sc Nutrition and Dietetics |

|                 |                              |  |                              |
|-----------------|------------------------------|--|------------------------------|
| Shipra arora    | BSc. Nutrition and Dietetics | Manav Rachna International Institute of Research and Studies | M.Sc Nutrition and Dietetics |
| Shreya Pasricha | BSc. Nutrition and Dietetics | Manav Rachna International Institute of Research and Studies | M.Sc Nutrition and Dietetics |
| Sunakshichauhan | BSc. Nutrition and Dietetics | Manav Rachna International Institute of Research and Studies | M.Sc Nutrition and Dietetics |
| Tanvi Asija     | BSc. Nutrition and Dietetics | Guru Nanak Dev University, Amritsar                          | M.Sc Food technology         |
| Kanika Jain     | M.Sc.-Nutrition & Dietetics  | The Institute of Liver and Biliary Sciences ,Delhi           | PhD                          |

**c. Students benefited by career counseling and guidance for competitive Examinations: 2021-22**

| Activity Description   | No. of Participants |
|--|---------------------|
| Exam Pattern and Guidelines on NET/JRF   | 40                  |
| Nutrition Programs Monitoring & Evaluations: Are there any missed opportunities? | 66                  |
| Career Opportunities in Food Science and Technologies                            | 69                  |
| Career Counseling  | 30                  |

**d. Faculty members: Awards & Recognitions: 2021-22**

| Name of Faculty Member | Awards/Recognition  |
|------------------------|---|
| Mahak Sharma           | Recognition as Invited Speaker to deliver a lecture on topic "Nutrition and Workplace" at Morarji Desai National Institute of Yoga, New Delhi (03-09-2021)                      |
| Mahak Sharma           | Recognition as Invited Resource Person at ATAL FDP on "Contemporary Advances in Sustainable and Integrated Infrastructure" held at MRIIRS, Faridabad (02-08-2021 to 06-08-2021) |
| Gurjeet Kaur Chawla    | Certificate of Appreciation in contribution to world Environment Day 20-06-2022   |
| Lakhvinder Kaur        | Mentorship award during World Food Safety Day 2022(07-06-2022)  |

|                 |   |
|-----------------|---|
| Lakhvinder Kaur | Recognition for Anveshan 2021-22 tilted App Based Intelligent Packaging Film (27-03-2022 to 28-03-2022) |
|-----------------|---|

**e. FDPs attended by Faculty Members: 2021-22**

| <b>Name of the Faculty member</b> | <b>Title of the Event</b>  | <b>Date From</b> | <b>Date to</b> |
|-----------------------------------|--|------------------|----------------|
| Ankita Sehjpal Sharma             | FDP on Outlook over Research Writing & Publication Process                                   | 13-12-2021       | 18-12-2021     |
| Ankita Sehjpal Sharma             | FDP on nutrition and Diet Planning   | 28-08-2021       | 11-09-2021     |
| Ankita Sehjpal Sharma             | Quality Attributes for The Strategic Improvement of Faculty Productivity                     | 03-08-2021       | 07-08-2021     |
| Ankita Sehjpal Sharma             | Advances in food and value addition of grains  | 23-08-2021       | 27-08-2021     |
| Divya Puri                        | ATAL FDP on Non-Thermal Processing of Food Products  | 29-06-2021       | 03-07-2021     |
| Divya Puri                        | FDP on Outlook over Research Writing & Publication Process                                   | 13-12-2021       | 18-12-2021     |
| Divya Puri                        | FDP on Food Processing, preservation and cold storage  | 04-07-2021       | 08-07-2021     |
| Divya Puri                        | FDP on Non-Thermal Processing of Food Products   | 29-06-2021       | 03-07-2021     |
| Divya Puri                        | FDP on Leadership for Academicians Programme(LEAP) recognised by AICTE                       | 13-06-2022       | 17-06-2022     |
| Divya Sanghi                      | FDP on Waste Technology: Emerging Strategies in Waste Management Solutions                   | 23-08-2021       | 27-08-2021     |
| Divya Sanghi                      | FDP on Health Research fundamentals  | 01-07-2021       | 01-09-2021     |
| Divya Sanghi                      | FDP on Outlook over Research Writing & Publication Process                                   | 13-12-2021       | 18-12-2021     |
| Divya Sanghi                      | FDP on nutrition and Diet Planning   | 28-08-2021       | 11-09-2021     |
| Divya Sanghi                      | FDP on Leadership for Academicians Programme(LEAP) recognised by AICTE                       | 13-06-2022       | 17-06-2022     |
| Gurjeet Kaur Chawla               | FDP on "Personal Effectiveness"  | 23-08-2021       | 27-08-2021     |
| Gurjeet Kaur Chawla               | FDP on "Stress Management through Yoga and Meditation"                                       | 11-10-2021       | 15-10-2021     |
| Gurjeet Kaur Chawla               | FDP on Life Skills Developments of Educators Through Inner Transformation by 'Art of Living' | 16-08-2021       | 20-08-2021     |
| Gurseen Rakhra                    | E-CNE on Management & Prevention of NCDs-A new Paradigm                                      | 06-09-2021       | 09-09-2021     |
| Gurseen Rakhra                    | FDP on Outlook over Research Writing & Publication Process                                   | 13-12-2021       | 18-12-2021     |

|                 |  |            |            |
|-----------------|--|------------|------------|
| Lakhvinder Kaur | FDP on "Novel Applications of Waste Technology Systems for Sustainable future" | 02-08-2021 | 06-08-2021 |
| Lakhvinder Kaur | FDP on Outlook over Research Writing & Publication Process                     | 13-12-2021 | 18-12-2021 |
| Lakhvinder Kaur | FDP on Leadership for Academicians Programme(LEAP) recognised by AICTE         | 13-06-2022 | 17-06-2022 |
| Lavanya M.N     | FDP on Stress Management conducted by IEEE                                     | 24-01-2022 | 29-01-2022 |
| Lucy George     | Outlook over Research Writing and Publication Process"                         | 13-12-2021 | 18-12-2021 |
| Madhvi Awasthi  | FDP on "Nutraceuticals: Basics & Beyond"                                       | 12-07-2021 | 16-07-2021 |
| Madhvi Awasthi  | FDP on Advances in food and value addition of grains                           | 23-08-2021 | 27-08-2021 |
| Madhvi Awasthi  | FDP on Outlook over Research Writing & Publication Process                     | 13-12-2021 | 18-12-2021 |
| Madhvi Awasthi  | FDP on Leadership for Academicians Programme(LEAP) recognised by AICTE         | 13-06-2022 | 17-06-2022 |
| Madhvi Awasthi  | SWAYAM Course on Academic Writing  | 17-01-2022 | 21-02-2022 |
| Mahak Sharma    | FDP on Waste Technology: Emerging Strategies in Waste Management Solutions     | 23-08-2021 | 27-08-2021 |
| Mahak Sharma    | FDP on nutrition and Diet Planning   | 28-08-2021 | 11-09-2021 |
| Mahak Sharma    | FDP on Leadership for Academicians Programme(LEAP) recognised by AICTE         | 13-06-2022 | 17-06-2022 |
| Mahak Sharma    | FDP on Project Based Learning: International Perspective                       | 04-07-2022 | 09-07-2022 |
| Pratibha Singh  | FDP on Outlook over Research Writing & Publication Process                     | 13-12-2021 | 18-12-2021 |
| Pratibha Singh  | FDP on Project Based Learning: International Perspective                       | 04-07-2022 | 09-07-2022 |
| Priya Mishra    | FDP on Leadership for Academicians Programme(LEAP) recognised by AICTE         | 13-06-2022 | 17-06-2022 |
| Srishti Negi    | Coursera Course on Weight Management :Beyond Balancing Calories                | 21-07-2021 | 26-08-2021 |
| Srishti Negi    | ATAL FDP on Non-Thermal Processing of Food Products                            | 29-06-2021 | 03-07-2021 |
| Srishti Negi    | FDP on "Nutraceuticals: Basics & Beyond"                                       | 12-07-2021 | 16-07-2021 |
| Srishti Negi    | FDP on Non-Thermal Processing of Food Products                                 | 29-06-2021 | 03-07-2021 |
| Srishti Negi    | FDP on Outlook over Research Writing & Publication Process                     | 13-12-2021 | 18-12-2021 |
| Srishti Negi    | FDP on Leadership for Academicians Programme(LEAP) recognised by AICTE         | 13-06-2022 | 17-06-2022 |

|              |  |            |            |
|--------------|--|------------|------------|
| Vandana Garg | FDP on Outlook over Research Writing & Publication Process | 13-12-2021 | 18-12-2021 |
| Vandana Garg | FDP on "Nutraceuticals: Basics & Beyond"                   | 12-07-2021 | 16-07-2021 |

#### f. Events organised: 2021-22

| Title of the Event  | From date  | To date    |
|---|------------|------------|
| Workshop:E-CNE on Management and Prevention of NCDs- A new paradigm:Professional Development Program for teaching staff   | 06-09-2021 | 09-09-2021 |
| Virtual International Conference on Sustainability of Food-A Global Perspective:Professional Development Program for teaching and non-teaching staff  | 17-09-2021 | 18-09-2021 |
| Faculty Development Program on Outlook over Research Writing and Publication Process-Professional Development Program for teaching staff  | 13-12-2021 | 18-12-2021 |
| International Conference on Yoga, Nutrition and Health in collaboration with Directorate of Education Al-Diwaniyah with the foundation of the Academy of Excellence, UAE College of Physical Education and Sports Science College of Education for Girls, University of Al-Qadsiyah, Iraq | 21-06-2022 | 21-06-2022 |

#### g. Faculty Research Papers: 2021-22

| Title of Paper  | Name of the Author/S   | Name of Journal  | Year of Publication |
|---|--|--|---------------------|
| A Review On Usage Of Nutritional Labeling Consumer Preferences And Choices                                    | Shubhangi Srivastav and Madhvi Awasthi   | Advances in Food Sciences                                    | 2021-22             |
| Antimicrobial Packaging & Its Use In Food Industry A Review   | Saraswat S, Richa and Puri D   | Bulletin of Environment, Pharmacology and Life Sciences      | 2021-22             |
| Assessment Of Nutritional Quality Of Developed Product (Muffin & Vermicelli) By Using Different Type Of Seeds | Heena Dabral and Ankita Sharma   | Plant archives   | 2021-22             |
| Association Of Flat Foot With Obesity In Middle-Aged Individuals  | Manish Kumar*, Divya Sanghi, Jyoti Kataria, Pratiksha Arya   | International Journal of research in Pharmaceutical sciences | 2021-22             |
| Chemical Constituents And Therapeutic Properties Of Himalayan Rhododendron Arboreum - A Review                | Deepti Agarwal and M Awasthi   | Journal of biodiversity                                      | 2021-22             |
| Community Responses To Covid-19 Pandemic First Wave Containment Measures A Multinational Study                | Myo Nyein Aung, Claire Stein, Wei-Ti Chen, Vandana Garg, Monika Saraswati Sitepu, Nguyen Thi Dang Thu, Carlos Primero D Gundran, Mohd Rohaizat Hassan, Unyaporn Suthutvoravut, Aung Naing Soe, Magde Nour, Khin Khin Gyi, Rainer Brandl, Motoyuki Yuasa. | The Journal of Infection in Developing Countries             | 2021-22             |

|   |   |  |         |
|---|---|--|---------|
| Effect Of Endurance Training On Copper, Zinc, Iron And Magnesium Status   | Gurseen Rakhra, Daisy Masih, Annu Vats, Saroj K Verma, Vijay K Singh, Vandana Kirar, Som N Singh                                    | Journal of sports medicine and physical fitness                | 2021-22 |
| Effect Of Low Intensity Pulsed Ultrasound On Callus Formation In Tibial Diaphyseal Fracture - A Review                                  | Manishtha Rao, Madhvi Awasthi.  | Journal of critical reviews                                    | 2021-22 |
| Effect Of Type Of Physical Activity On The Sleep Pattern Of Sport Players   | Preeti Saini, Mahak Sharma  | INTERNATIONAL JOURNAL OF PHYSIOTHERAPY                         | 2021-22 |
| Genetic Predisposition Of Vitamin D Receptor Gene (Taq1, Apa1, Bsm1 And Fok1) Polymorphisms And Vitamin D Status In Knee Osteoarthritis | Divya Sanghi, Sarita Agarwal  | Bulletin of Environment , pharmacology and Life Sciences       | 2021-22 |
| Guava (Psidium Guajava L.) Leaves Nutritional Composition, Phytochemical Profile, And Health-Promoting Bioactivities                    | Manoj Kumar, Maharishi Tomar, Ryszard Amarowicz, Vivek Saurabh, M. Sneha Nair, Chirag Maheshwari, Minnu Sasi, Uma Prajapati, et al. | Foods  | 2021-22 |
| Influence Of Covid-19 Pandemic On Health Due To Home Confinement  | Purvi Garg and Pratibha Singh   | Current Medicine Research and Practice                         | 2021-22 |
| Influence Of Dietary Intake On Sleep Quality Of College Students  | Goel P and Singh P  | International Journal of Biology, Pharmacy and Allied Sciences | 2021-22 |
| Outbreaks In India Impact On Socio-Economy And Health   | Divya Sangi, Preeti Saini, Priya Mishra and Mahak Sharma  | Journal of Communicable disease                                | 2021-22 |
| Sensory Attributes And Flavonoid Content Of Himalayan Rhododendron Arboreum Flowers Based Tea   | Deepti Agarwal and M Awasthi  | International Journal of Biology, Pharmacy and Allied Sciences | 2021-22 |
| The Micronutrient Consumption In Indian Elementary School Children Across Socio-Economic Strata,  | Kshitija Patki, Divya Sanghi, Raju K Parasher, Barkha Bhatnagar   | International Journal of Child Health & Nutrition              | 2021-22 |
| Therapeutic Use Of Dropped Pomegranate Flowers On Metabolic Disorders A Review  | Pratima Singh and Mahak Sharma  | International Journal of Botany Studies                        | 2021-22 |
| Zinc Finger Proteins Insights Into The Transcriptional And Post Transcriptional Regulation Of Immune Response                           | Gurseen Rakhra, Gurmeen Rakhra  | Molecular Biology reports                                      | 2021-22 |

### g. Book Chapters: 2021-22

| Name of the teacher            | Title of the book/chapters published  | Title of the paper | Title of the proceedings of the conference |
|--------------------------------|---|--------------------|--|
| Madhvi Awasthi                 | Betel Leaves(Piper betel)Biochemistry and Therapeutics, Biochemistry and Therapeutics Applications of Medicinal Herbs | NA                 | NA   |
| Madhvi Awasthi                 | Food & Drug Interaction, Recent Advances In Pharmaceutical Sciences (Volume 3)  | NA                 | NA   |
| Divya Sanghi and Ankita Sharma | Impact of covid 19 on agri food industry, Covidonomics and India Economy during Covid -19                             | NA                 | NA   |

## 2. DEPARTMENT OF PHYSIOTHERAPY

### i) Thrust Area:

- ❖ Micro Injury Profile of Athletes
- ❖ Hydration Status
- ❖ Balance and Agility
- ❖ Vibration Training Technique
- ❖ Isokinetic Dynamometry
- ❖ Ergonomics
- ❖ Motor- Learning and NDT

### ii) Student's Achievements:

#### a. Student's Publications: 2021-22

| Title of Paper  | Name of all the author/s  | Student Authors | Journal/Conference/Book Title                        |
|---|---|-----------------|--|
| Correlation Between Bicycle Geometry And The Lysholm Score (Knee) In Young Healthy Adult Male Cyclists                    | Aditya Divyansh, Shishir Nigam, Moattar Raza Rizvi, Ankita Sharma, Shobhit Saxena | Aditya Divyansh | International Scientific Journal of Kinesiology      |
| Relationship Between Hamstring And Lower Back Muscles Flexibility And Sprint Speed In Under-19 Young Male Cricket Players | Bhushan Dahikar, Shishir Nigam, Sanchit Dahikar                                   | Bhushan Dahikar | Indian Journal of Basic and Applied Medical Research |

|  |  |                |                                  |
|--|--|----------------|----------------------------------|
| Comparison of endurance, agility, and core strength between national and state level female football players | Zoya Zaidi, Moattar Raza Rizvi, Ankita Sharma, Preeti Saini, Shishir Nigam         | Zoya Zaidi     | Saudi Journal of Sports Medicine |
| Effects of Plyometric Training on Agility, Speed and Explosive Power in Male Collegiate Badminton Players    | Chandra Suresh, Sharma Ankita, Malhotra Nitesh, Rizvi Moattar Raza, Kumari Sunita, | Chandra Suresh | Journal of lifestyle Medicine    |

**b. Student progression to higher education during the year: 2021-22**

| Name of Students enrolled for Higher Education | Graduated from which Programme | Name of Institution Joined                           | Admitted to (Name of Programme)      |
|--|--------------------------------|--|--------------------------------------|
| Muskan Rastogi                                 | Bachelor of Physiotherapy      | KMC, Mangalore                                       | MPT                                  |
| Priyanka Sharma                                | Bachelor of Physiotherapy      | Conestoga college, Canada                            | PG Diploma- HealthCareAdministration |
| Hafiza   | Bachelor of Physiotherapy      | Raja Rajeshwari college of Physiotherapy             | MPT                                  |
| Dolly  | Bachelor of Physiotherapy      | NarseeMonjee Institute of Management Studies, Mumbai | MBA                                  |
| Rinki  | Bachelor of Physiotherapy      | College of Physiotherapy, PGIMS, Rohtak              | MPT                                  |
| Yashma Shrestha                                | Bachelor of Physiotherapy      | Fanshawe college, Toronto                            | PG Diploma- Gerontology,             |

|                   |                           |  |  |
|-------------------|---------------------------|--|--|
| Harkesh           | Bachelor of Physiotherapy | Sanskriti University,U.P.  | MPT  |
| Khushboo          | Bachelor of Physiotherapy | Sanskriti University,U.P.  | MPT  |
| Nayanshi Varshney | Bachelor of Physiotherapy | Sanskriti University,U.P.  | MPT  |
| Nirvana Bhattarai | Bachelor of Physiotherapy | Fanshawe College International Centre,Canada                                 | GIP2G - Gerontology - Interprofessional Practice |
| Simran Chawla     | Bachelor of Physiotherapy | Shree Guru Gobind Singh Tricentenary University, Haryana                     | MPT- Neurology                                   |
| Yukti Yadav       | Bachelor of Physiotherapy | Sanskriti University,U.P.  | MPT  |
| Nainy Grewal      | Bachelor of Physiotherapy | Lambton College ,Canada  | MPT  |
| Jai Pant          | Bachelor of Physiotherapy | Manav Rachna International Institute of Research and Studies,Haryana         | MPT  |
| Anurag Nand Mehr  | Bachelor of Physiotherapy | Institute of Management & Technical Studies                                  | MPT  |
| Kanika Garg       | Bachelor of Physiotherapy | Lambton College at Queen's College of Business, Technology and Public Safety | Therapeutic Recreation                           |
| Priyanka          | Bachelor of Physiotherapy | Conestoga College Institute of Technology and Advanced Learning              | Healthcare Administration and Service Management |

**c. Students benefited by career counseling and guidance for competitive Examinations: 2021-22**

| Activity Description                  | No. of Participants |
|---------------------------------------|---------------------|
| Career of Physiotherapy in Canada     | 120                 |
| Career Counseling: Interaction of CRC | 65                  |

**d. FDPs Attended by Faculty Members: 2021-22**

| Name of the Faculty member | Title of the Event  | Date From  | Date to    |
|----------------------------|---|------------|------------|
| Ankita                     | Outlook over Research Writing and Publication Process                             | 13-12-2021 | 18-12-2021 |
| Ankita                     | Intelligent Interactive Medical Services  | 02-08-2021 | 06-08-2021 |
| Ankita                     | Hands on workshop on Instrument Assisted Soft tissue Mobilization (IASTM)         | 07-10-2021 | 08-10-2021 |
| Ankita                     | FDP on NEP 2020 Implementation in Higher Education Institutes recognised by AICTE | 09-05-2022 | 13-05-2022 |
| Ankita                     | FDP on Leadership for Academicians Programme (LEAP) recognised by AICTE           | 13-06-2022 | 17-06-2022 |
| Irshad Ahmad               | Outlook over Research Writing and Publication Process                             | 13-12-2021 | 18-12-2021 |
| Irshad Ahmad               | Unfolding the Perspectives of Research in Physiotherapy                           | 23-11-2021 | 27-11-2021 |
| Irshad Ahmad               | FDP on Leadership for Academicians Programme (LEAP) recognised by AICTE           | 13-06-2022 | 18-06-2022 |
| Moattar Raza Rizvi         | FDP on NEP 2020 Implementation in Higher Education Institutes recognised by AICTE | 09-05-2022 | 13-05-2022 |
| Moattar Raza Rizvi         | FDP on Leadership for Academicians Programme (LEAP) recognised by AICTE           | 13-06-2022 | 17-06-2022 |

|                 |   |            |            |
|-----------------|---|------------|------------|
| Nitesh Malhotra | Outlook over Research Writing and Publication Process                             | 13-12-2021 | 18-12-2021 |
| Nitesh Malhotra | FDP on NEP 2020 Implementation in Higher Education Institutes recognised by AICTE | 09-05-2022 | 13-05-2022 |
| Nitesh Malhotra | FDP on Leadership for Academicians Programme (LEAP) recognised by AICTE           | 13-06-2022 | 17-06-2022 |
| Pooja Sharma    | FDP on Leadership for Academicians Programme (LEAP) recognised by AICTE           | 13-06-2022 | 17-06-2022 |
| Preeti Saini    | Outlook over Research Writing and Publication Process                             | 13-12-2021 | 18-12-2021 |
| Preeti Saini    | Unfolding the Perspectives of Research in Physiotherapy                           | 23-11-2021 | 27-11-2021 |
| Preeti Saini    | FDP on Leadership for Academicians Programme (LEAP) recognised by AICTE           | 13-06-2022 | 17-06-2022 |
| Priyanka sethi  | Effective Decision Making   | 10-08-2021 | 14-08-2021 |
| Priyanka sethi  | Unfolding the Perspectives of Research in Physiotherapy                           | 23-11-2021 | 27-11-2021 |
| Priyanka sethi  | Emotional Intelligence  | 13-09-2021 | 17-09-2021 |
| Priyanka sethi  | Leadership Mastery Through self Management  | 27-12-2021 | 31-12-2021 |
| Priyanka sethi  | Outlook over Research Writing and Publication Process                             | 13-12-2021 | 18-12-2021 |
| Priyanka Sethi  | FDP on Academic Research Writing  | 04-06-2022 | 10-06-2022 |
| Priyanka Sethi  | FDP on Leadership for Academicians Programme (LEAP) recognised by AICTE           | 13-06-2022 | 17-06-2022 |
| Shishir Nigam   | Outlook over Research Writing and Publication Process                             | 13-12-2021 | 18-12-2021 |
| Shishir Nigam   | FDP on Precision Health Technology (FDP PHT-2021)                                 | 04-08-2021 | 08-08-2021 |
| Shishir Nigam   | FDP on Leadership for Academicians Programme (LEAP) recognised by AICTE           | 13-06-2022 | 17-06-2022 |
| Shobhit Saxena  | Outlook over Research Writing and Publication Process                             | 13-12-2021 | 18-12-2021 |
| Shobhit Saxena  | FDP on Leadership for Academicians Programme (LEAP) recognised by AICTE           | 13-06-2022 | 17-06-2022 |
| Sunita Kumari   | Outlook over Research Writing and Publication Process                             | 13-12-2021 | 18-12-2021 |
| Sunita Kumari   | FDP on Leadership for Academicians Programme (LEAP) recognised by AICTE           | 13-06-2022 | 17-06-2022 |



|   |  |                              |         |
|---|--|------------------------------|---------|
| Intermittent Pneumatic Compression Changes Heart Rate Recovery And Heart Rate Variability After Short Term Submaximal Exercise In Collegiate Basketball Players Crossover Study | Zoya Khan, Irshad Ahmad, Mohd. Ejaz Hussain  | Sports Sciences for Health   | 2021-22 |
| Point Of Care Detection Of Covid-19 Advancement In Biosensing And Diagnostic Methods  | Shariq Suleman ,<br>Sudheesh K Shukla ,<br>Nitesh Malhotra ,<br>Shikandar D<br>Bukkitgar, Nagaraj P<br>Shetti, Roberto<br>Pilloton, Jagriti<br>Narang , Yen Nee<br>Tan, Tejraj M<br>Aminabhavi | Chemical Engineering Journal | 2021-22 |

**Details of Board of Faculty and Board of Studies tabulated below:**

| <b>Board of Faculty</b> |                         |   |                 |
|-------------------------|-------------------------|---|-----------------|
| 1                       | Dr Moattar Raza Rizvi   | Professor & Dean-FAHS, Chairperson                    | <b>Chairman</b> |
| 2                       | Dr Divya Sanghi         | Professor & Head Dept of ND, Member                   | Member          |
| 3                       | Dr Nitesh Malhotra      | Associate Professor & Head Dept of PT, Member         | Member          |
| 4                       | Dr Pratibha Singh       | Professor, Dept of ND, Member                         | Member          |
| 5                       | Dr Gurjeet Kaur Chawla  | Professor, Dept of ND & Dean Student Welfare, Member  | Member          |
| 6                       | Dr Ekta Chitkara        | Associate Professor, Dept of PT, Member               | Member          |
| 7                       | Dr Mahak Sharma         | Associate Professor, Dept of ND, Member               | Member          |
| 8                       | Dr Shobhit Saxena       | Assistant Professor, Dept of PT, Member               | Member          |
| 9                       | Ms Ankita Sejpal Sharma | Assistant Professor, Dept of ND, Member               | Member          |
| 10                      | Dr Debabrata Kanungo    | Former Additional Director General of Health Services | External Member |
| 11                      | Dr Arvind Gupta         | Dean Academics  | External Member |

| <b>Board of Studies</b>                        |                         |  |          |
|--|-------------------------|--|----------|
| <b>Department of Nutrition &amp; Dietetics</b> |                         |  |          |
| 1  | Dr. Divya Sanghi        | Professor & Head-Dept of Nutrition and Dietetics, FAHS       | Chairman |
| 2  | Dr. Pratibha Singh      | Professor, Dept of Nutrition and Dietetics, FAHS             | Member   |
| 3  | Dr. Gurjeet Kaur Chawla | Professor, Dept of Nutrition and Dietetics, FAHS & Dean, DSW | Member   |
| 4  | Dr. Mahak Sharma        | Associate Professor, Dept. of Nutrition & Dietetics          | Member   |

|    |                    |   |                 |
|----|--------------------|---|-----------------|
| 5  | Dr Lakhvinder Kaur | Associate Professor, Nutrition & Dietetics  | Member          |
| 6  | Dr. Priya Mishra   | Assistant Professor, Dept. of Nutrition and Dietetics   | Member          |
| 7  | Ms Ankita Sharma   | Assistant Professor, Nutrition & Dietetics  | Member          |
| 8  | Dr. Iram Rao       | Associate Prof, Dept. of Food Technology<br>Bhaskaracharya College, Delhi University, New Delhi | External Member |
| 9  | Dr. Bani Aeri      | Assistant Professor, Department of Food and Nutrition, Institute of Home Economics, DU          | External Member |
| 10 | Ms. Anita Jatana   | Chief Dietician, Indraprastha Apollo Hospital   | External Member |

#### Department of Physiotherapy

|    |                      |   |                 |
|----|----------------------|---|-----------------|
| 1  | Dr.Nitesh Malhotra   | Associate Professor & Head of Department  | Chairman        |
| 2  | Dr.Moattarraza Rizvi | Professor & Dean , FAHS   | Member          |
| 3  | Dr. Ekta Chitkara    | Associate Professor   | Member          |
| 4  | Dr, Shishir Nigam    | Associate Professor   | Member          |
| 5  | Dr. Shobhit Saxena   | Assistant Professor   | Member          |
| 6  | Dr. Preeti Saini     | Assistant Professor   | Member          |
| 8  | Dr. Seema Grover     | Physiotherapy & Rehabilitation<br>Indraprastha Apollo Hospitals,<br>Sarita Vihar, New Delhi | External Member |
| 9  | Dr. Raju Parashar    | Director/Principal, Amar Jyoti<br>Institute of Physiotherapy, South<br>Delhi                | External Member |
| 10 | Dr. Ejaz Hussain     | Professor, Centre for<br>Physiotherapy & Rehabilitation,<br>Jamia Millia Islamia, New Delhi | External Member |

### 3.4 FACULTY OF COMPUTER APPLICATIONS

**Name of Department:**

**S.No. Name of Department**

**1. Computer Applications**

**Admission Status:**

| Programme                        |   |                |    |                  |    |
|----------------------------------|---|----------------|----|------------------|----|
| Name of the Faculty              | Programme                               | Student Intake |    | Total Admissions |    |
|                                  |   | UG             | PG | UG               | PG |
| Faculty of Computer Applications | Bachelor of Computer Applications (BCA) | 120            |    | 122              |    |
|                                  | B.Sc.-IT                                | 10             |    | 05               |    |
|                                  | MCA                                     |                | 60 |                  | 59 |

**Faculty of Computer Applications:**

**List of Faculty Member**

| Name of the Full-time teacher | Designation         | Department            |
|-------------------------------|---------------------|-----------------------|
| Anupriya Jain                 | Professor           | Computer Applications |
| Anupama Chadha/Pankaj         | Professor           | Computer Applications |
| Sonal Pathak                  | Associate Professor | Computer Applications |
| Parul Gandhi                  | Professor           | Computer Applications |
| Seema Sharma                  | Assistant Professor | Computer Applications |
| Vishawjyoti                   | Assistant Professor | Computer Applications |
| Rashmi Agrawal                | Professor           | Computer Applications |
| Shaveta Bhatia                | Professor           | Computer Applications |
| Mridula Batra                 | Associate Professor | Computer Applications |
| Neha Gupta                    | Associate Professor | Computer Applications |
| Sachin Sharma                 | Associate Professor | Computer Applications |
| Neerja Negi                   | Assistant Professor | Computer Applications |
| Kavita Arora                  | Assistant Professor | Computer Applications |
| Chitra Jalota                 | Assistant Professor | Computer Applications |
| Raj Kumar                     | Assistant Professor | Computer Applications |
| Sonia Duggal                  | Associate Professor | Computer Applications |
| Saket Kumar Choudhary         | Assistant Professor | Computer Applications |
| Priyanka Sharma               | Assistant Professor | Computer Applications |
| Sonia Setia                   | Assistant Professor | Computer Applications |
| Richa Vijay                   | Assistant Professor | Computer Applications |
| Aastha Budhiraja              | Assistant Professor | Computer Applications |
| Stuti Tandon                  | Assistant Professor | Computer Applications |
| Neda Fatima                   | Assistant Professor | Computer Applications |
| Usha Batra                    | Professor           | Computer Applications |



**Department at a Glance:**

## DEPARTMENT OF COMPUTER APPLICATIONS

### i) Thrust Area

- Cloud Computing
- Image Processing
- Cyber Security
- Natural Language Processing
- Machine Learning (ML)
- Content based Learning
- Data Mining
- Brain Computer Interface
- Neural Networks
- Software Defined Networking
- Big Data
- Internet of Things (IoT)
- Android Application Development
- Computer Networks
- Web Mining
- Software Testing

### ii) Academic Achievements

#### a. Student's Publications: 2021-22



|   |  |  |  |
|---|--|--|--|
| Polynomial Based Linear Regression Model To Predict Covid-19 Cases                              | Nikhil, Arushi Saini, Santu Pandey, Neha Gupta               | Nikhil, Arushi Saini, Santu Pandey               | 2021 6th IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT-2021) |
| Home automation using internet of things  | Vishawjyoti, Nikhil Dutt, Mahak Gupta , Jai Singh            | Nikhil Dutt, Mahak Gupta , Jai Singh             | International Conference on Futuristic Trends for Sustainable Ecosystem (FTSE-2021)  |
| Artificial Intelligence in Machine Learning   | Vishawjyoti, Nidhi Bhuttan, Muskan Jain, Shruti Varshney     | Nidhi Bhuttan, Muskan Jain, Shruti Varshney      | International Conference on Futuristic Trends for Sustainable Ecosystem (FTSE-2021)  |
| Imputation of Missing Values using Improved K-Means Clustering Algorithm to Attain Data Quality | Stephen Philip, Pawan Vashisth, Anant Chaturvedi, Neha Gupta | Stephen Philip, Pawan Vashisth, Anant Chaturvedi | 3rd International Conference on Inventive Research in Computing Applications ICIRCA 2021                                     |
| Instigating Decentralized Apps with Smart Contracts   | Nikhil, Neha Gupta, Arushi Saini, Santu Pandey               | Nikhil, Arushi Saini, Santu Pandey               | International Conference on Advances in Computing, Communication and Applied Informatics (ACCAI-2022)                        |
| Synergizing Smart Home with Smart Parking using IOT   | Ankit Raj, Manish Dubey, Lakshita Gugnani, Neha Gupta        | Ankit Raj, Manish Dubey, Lakshita Gugnani        | International Conference on Artificial Intelligence and Smart Systems (ICAIS 2022)   |
| Intensify Assured PHR Sharing in Cloud Using Entropy Based Signature Cryptosystem               | Bhagvender Singh, Kavita Arora, Sailesh Suryanarayan Iyer    | Bhagvender Singh                                 | International Conference on Technologies for green connected societies 2021  |
| Improved Security of IoT Through Blockchain   | Sonal Pathak, Apoorav Jhavar, Mukul Sharma, Archit Kohli     | Apoorav Jhavar, Mukul Sharma, Archit Kohli       | International Conference on Machine Learning (ICM-2022)  |

**b. Students benefited by career counseling and guidance for competitive Examinations:  
2021-22**

| Activity Description  | No. of Participants |
|---|---------------------|
| Startup Initiatives   | 110                 |
| Security of Multimedia Communications                                     | 90                  |
| Career Session by Industrial visit to IRGS Pvt. Ltd., Badarpur, New Delhi | 35                  |



|               |                                   |   |     |
|---------------|-----------------------------------|---|-----|
| Ankita Kumari | Bachelor of Computer Applications | Amity University  | MCA |
| Ankit Yadav   | Master of Computer Applications   | Manav Rachna International Institute of Research and Studies, Haryana | MCA |
| Ravi Kumar    | Master of Computer Applications   | Manav Rachna International Institute of Research and Studies, Haryana | MCA |

#### d. Faculty members: Awards & Recognitions: 2021-22

| Name of Faculty Member | Awards/Recognition   |
|------------------------|--|
| Rashmi Agrawal         | Recognition as Keynote Speaker in 3rd International Conference on Smart and Intelligent Learning for Information Optimization (CONSILIO-2021) (09-07-2021-10-07-2021)  |
| Rashmi Agrawal         | Recognition as Invited Speaker to deliver lecture on Internet of Things: Looking Beyond the Hype (October 23, 2021)  |
| Rashmi Agrawal         | Recognition as Invited Speaker to deliver lecture in one-week AICTE Sponsored STTP on "Emerging Research Areas in Big Data Computing" (11-10-2021 to 16-10-2021)   |
| Parul Gandhi           | Recognition as Invited Speaker to deliver lecture on Soft Computing (26-11-2021)   |
| Chitra Jalota          | Recognition as Invited Programme Committee Member and Reviewer at International Conference on sustainable and Innovative solutions for current Challenges in Engineering and Technology (13-11-2021 to 14-11-2021)   |
| Chitra Jalota          | Recognition as Invited reviewer for paper titled "Improved Document Categorization using Natural Language Toolkit in Python" (10-09-2021)  |
| Neha Gupta             | Recognition as Invited Session Chair in "Asian Conference on Innovation in Technology (ASIANCON) 2021" (27-08-2021 to 29-08-2021)  |
| Priyanka Sharma        | Recognition for publishing patent: An Agricultural System For Early Blight Detection With IoT Connectivity (15-10-2021)  |
| Sachin Sharma          | Recognition as Invited Speaker to deliver lecture on "Data Mining" at Gita Vidya Mandir Girls College, Sonapat (27-11-2021)  |
| Anupama Chadha/Pankaj  | Recognition for publishing patent: An IoT Based GAIT Trainer System for Physically Disabled Children(18-12-2021)   |
| Rashmi Agrawal         | Professional Membership has been admitted as a member of the Association for Computing Machinery (Jan 2022)  |
| Rashmi Agrawal         | Excellent Contributor: Outstanding contribution in Research & Innovation (Feb 2022)  |
| Rashmi Agrawal         | Recognition for Outstanding Contribution in Research and innovation(09-03-2022)  |
| Rashmi Agrawal         | Appreciation for mentoring startup Project : Empire Gaming (08-04-2022)  |
| Rashmi Agrawal         | Academic Excellence Award 2021 (19-06-2022)  |
| Rashmi Agrawal         | Recognition for invited Session Chair on Data Sciences at 6th International Conference on Advances in Computing and Data Sciences (ICACDS)-2022held at G. Pullaiah College of Engineering and Technology, Kurnool, Andhra Pradesh (22-04-2022 to 23-04-2022) |
| Rashmi Agrawal         | Appreciated as Resource Person for delivering lecture on FDP: Computer Vision and image processing(30-05-2022 to 03-06-2022)   |
| Rashmi Agrawal         | Powerful Women of the year(June 2022)  |
| Parul Gandhi           | Recognition as session chair International Conference on Smart computing technologies and business management strategies at Department of Computer Application (DCA),  |

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|-----------------|---|
|                 | Chandigarh Business School of Administration, a constituent college of Chandigarh Group of Colleges (CGC), Landran, Mohali. (20-01-2022)  |
| Neerja Negi     | Recognition for publishing patent: Machine Learning Analytics for Specialized stock trading (20-01-2022)  |
| Neerja Negi     | Recognition for publishing patent: Intelligent Electricity Utilization Management System (15-02-2022)   |
| Priyanka Sharma | Recognition as Educationist and Researcher: Powerful Women Transforming Nation Awards 2022 (09-03-2022)   |
| Priyanka Sharma | Best Paper award in International Conference-Titled: Patient and Doctor Key Management in Electronic Health Record Using Block Chain CIEMA 2022(26-03-2022 to 27-03-2022)                                       |
| Kavita Arora    | Recognition as Invited session chair for Track 1 ICT in International Conference on Futuristic Trends for Sustainable Ecosystem (FTSE-2021) (26-08-2021 to 28-08-2021)  |
| Kavita Arora    | Awarded First Prize for pitching Best Business Plan (11-03-2022 to 12-03-2022)  |
| Anupriya Jain   | Awarded as Session Chair: The International Conference on Bio-Neuro Informatics and Algorithms organised by Symbiosis Institute of Digital and Telecom Management(21-06-2022 to 22-06-2022)                     |
| Anupriya Jain   | Recognition for expert lecture on Object Oriented Programming (28-04-2022)  |
| Anupriya Jain   | Certificate of appreciation as a resource person in FDP on Recent Trends in Cyber Security and Machine Learning(01-06-2022 to 05-06-2022)   |
| Seema Sharma    | Recognition for the invited Session Chair at the International Conference on Bio-Neuro Informatics and Algorithms organised by Symbiosis Institute of Digital and Telecom Management (21-06-2022 to 22-06-2022) |
| Seema Sharma    | Certificate of appreciation as a resource person in FDP on Recent Trends in Cyber Security and Machine Learning(01-06-2022 to 05-06-2022)   |

#### e. FDPs attended by Faculty Members: 2021-22

| Name of the Faculty member | Title of the Event   | Date From  | Date to    |
|----------------------------|--|------------|------------|
| Aastha Budhiraja           | FDP on MATLAB for Engineering Applications recognised by AICTE   | 30-05-2022 | 03-06-2022 |
| Aastha Budhiraja           | FDP on STC on OBE and NBA Accreditation recognised by AICTE  | 23-05-2022 | 27-05-2022 |
| Anupama Chadha/Pankaj      | FDP on Effective Academic Practices  | 10-01-2022 | 14-01-2022 |
| Anupama Chadha/Pankaj      | AICTE Recognised STC on Artificial Intelligence & Big Data Analysis of Electrical Engineering (in Collaboration with Math Works) through ICT | 07-03-2022 | 11-03-2022 |
| Anupriya Jain              | Faculty Development Programme on Effective Academic Practices  | 10-01-2022 | 14-01-2022 |
| Anupriya Jain              | FDP on STC on OBE and NBA Accreditation recognised by AICTE  | 23-05-2022 | 27-05-2022 |
| Chitra Jalota              | Entrepreneurship and Challenges  | 12-07-2021 | 16-07-2021 |
| Chitra Jalota              | Internet of Things and Sensors   | 26-07-2021 | 30-07-2021 |
| Chitra Jalota              | Emphasizing the centrality of Marketing to Business  | 20-09-2021 | 24-09-2021 |
| Chitra Jalota              | Advance Data Analysis in Management and Engineering Research   | 01-08-2021 | 05-08-2021 |
| Chitra Jalota              | Faculty Development Programme on Effective Academic Practices  | 10-01-2022 | 14-01-2022 |

|                 |   |            |            |
|-----------------|---|------------|------------|
| Kavita Arora    | Advance Concepts on Networking and Linux  | 31-05-2021 | 05-06-2021 |
| Kavita Arora    | FDP on Leadership Mastery Through Self Management                                     | 27-12-2021 | 31-12-2021 |
| Kavita Arora    | Faculty Development Programme on Next Generation Artificial Techniques & Applications | 08-02-2022 | 13-02-2022 |
| Kavita Arora    | Faculty Development Programme on Effective Academic Practices                         | 10-01-2022 | 14-01-2022 |
| Kavita Arora    | FDP on STC on OBE and NBA Accreditation recognised by AICTE                           | 23-05-2022 | 27-05-2022 |
| Neda Fatima     | FDP on MATLAB for Engineering Applications recognised by AICTE                        | 30-05-2022 | 03-06-2022 |
| Neerja Negi     | Artificial Intelligence for Computer Vision   | 12-07-2021 | 16-07-2021 |
| Neerja Negi     | Faculty Development Programme on Effective Academic Practices                         | 10-01-2022 | 14-01-2022 |
| Neerja Negi     | Faculty Development Programme on Machine Learning for Internet of Things              | 03-01-2022 | 08-01-2022 |
| Neerja Negi     | STTP on Blockchain Technology & Networks  | 07-03-2022 | 12-03-2022 |
| Neerja Negi     | FDP on STC on OBE and NBA Accreditation recognised by AICTE                           | 23-05-2022 | 27-05-2022 |
| Neha Gupta      | Faculty Development Programme on Effective Academic Practices                         | 10-01-2022 | 14-01-2022 |
| Neha Gupta      | FDP on STC on OBE and NBA Accreditation recognised by AICTE                           | 23-05-2022 | 27-05-2022 |
| Parul Gandhi    | Faculty Development Programme on Effective Academic Practices                         | 10-01-2022 | 14-01-2022 |
| Parul Gandhi    | Unleashing Research Potential: Global Trends and Practices                            | 07-03-2022 | 11-03-2022 |
| Parul Gandhi    | FDP on STC on OBE and NBA Accreditation recognised by AICTE                           | 23-05-2022 | 28-05-2022 |
| Priyanka Sharma | Robust AI: Building through Data Exploration, Pre-processing and Representation       | 01-10-2021 | 05-10-2021 |
| Priyanka Sharma | Faculty Development Programme on Effective Academic Practices                         | 10-01-2022 | 14-01-2022 |
| Priyanka Sharma | FDP on STC on OBE and NBA Accreditation recognised by AICTE                           | 23-05-2022 | 27-05-2022 |
| Raj Kumar       | Faculty Development Programme on Effective Academic Practices                         | 10-01-2022 | 14-01-2022 |
| Raj Kumar       | Five Days Global E-FDP on Unleashing Research Potential: Global Trends and Practices  | 07-03-2022 | 11-03-2022 |
| Raj Kumar       | FDP on OBE and NBA Accreditation recognised by AICTE                                  | 23-05-2022 | 27-05-2022 |
| Rashmi Agrawal  | FDP on Effective Academic Practices   | 10-01-2022 | 14-01-2022 |
| Richa Vijay     | FDP on MATLAB for Engineering Applications recognised by AICTE                        | 30-05-2022 | 03-06-2022 |
| Sachin Sharma   | FDP on STC on OBE and NBA Accreditation recognised by AICTE                           | 23-05-2022 | 27-05-2022 |
| Seema Sharma    | Faculty Development Programme on Effective Academic Practices                         | 10-01-2022 | 14-01-2022 |
| Seema Sharma    | FDP on STC on OBE and NBA Accreditation recognised by AICTE                           | 23-05-2022 | 27-05-2022 |
| Sonal Pathak    | Faculty Development Programme on  | 10-01-2022 | 14-01-2022 |

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|--------------|--|------------|------------|
|              | Effective Academic Practices                                   |            |            |
| Sonal Pathak | FDP on STC on OBE and NBA Accreditation recognised by AICTE    | 23-05-2022 | 27-05-2022 |
| Sonia Duggal | FDP on STC on OBE and NBA Accreditation recognised by AICTE    | 23-05-2022 | 27-05-2022 |
| Stuti Tandon | FDP on STC on OBE and NBA Accreditation recognised by AICTE    | 23-05-2022 | 27-05-2022 |
| Stuti Tandon | FDP on MATLAB for Engineering Applications recognised by AICTE | 30-05-2022 | 03-06-2022 |
| Vishawjyoti  | Faculty Development Programme on Effective Academic Practices  | 10-01-2022 | 14-01-2022 |
| Vishawjyoti  | FDP on STC on OBE and NBA Accreditation recognised by AICTE    | 23-05-2022 | 27-05-2022 |

#### f. Events Organized: 2021-22

| Title  | From Date  | To Date    |
|--|------------|------------|
| Short Term Course on OBE and NBA Accreditation in collaboration with NITTTR Chandigarh | 23-05-2022 | 27-05-2022 |

#### g. Faculty Research Papers: 2021-22

| Title of paper  | Name of the author/s   | Name of journal   | Year of publication |
|---|--|---|---------------------|
| A big data framework for E-Government in Industry 4.0                               | Cu Kim Long, Rashmi Agrawal, Ha Quoc Trung and Hai Van Pham                  | Open Computer Science   | 2021-22             |
| Artificial Intelligence Based Video Games   | Vishawjyoti, Rohit Rawat, Fardeen Saifi, Jai Kumar Sharma                    | International Journal of Advanced Research, Ideas and Innovations in Technology                       | 2021-22             |
| Converging AI and Robotic: Techniques and Applications                              | Ankit Raj, Lakshita Gugnani, Manish Dubey, Neha Gupta                        | Artificial & Computational Intelligence   | 2021-22             |
| Cyber Security and the Internet of Things: Vulnerabilities, Threats & Future of IoT | Stephin Philip, Anant Chaturvedi, Pawan Vashisht & Neha Gupta                | International Journal of Advance Research, Ideas and Innovations in Technology                        | 2021-22             |
| Designing a Smart Cart Application with Zigbee and RFID Protocols.                  | Palvadi Srinivas Kumar, Abhishek Kumar, Rashmi Agrawal, Pramod Singh Rathore | Recent Advances in Computer Science and Communications (Formerly: Recent Patents on Computer Science) | 2021-22             |
| Domain Adaptable Model for Sentiment Analysis                                       | Vaishali Kalra, Rashmi Agrawal, Shrishti Sharma                              | Mechatronic Systems and Control   | 2021-22             |

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|---|--|---|---------|
| E-Learning Platforms - A Review   | Raj Kumar, ChandermaniAttri  | International Journal of All Research Education and Scientific Methods (IJARESM)                      | 2021-22 |
| Global Artificial Intelligence in Agriculture   | Mitali, Sunita Joshi, Neerja Negi  | International journal of Advanced Research and Science Communication and Technology                   | 2021-22 |
| Metric Approach to Anticipate Reusability of Object-Oriented (O-O) Software Systems                         | Bharti Bisht, Parul Gandhi   | Turkish Journal of Computer and Mathematics Education (TURCOMAT)                                      | 2021-22 |
| Online Education in the Time of COVID19 Crisis  | Keshav Dahiya, Naman Malhotra, Vaibhav Bachhwal, & Neha Gupta  | International Journal of Engineering Technologies and Management Research                             | 2021-22 |
| Review on Ethical Hacking and its Techniques  | Sachin Sharma, Hardik Saini, Deepak Makhija, Kamlesh Belwal  | IIOAB Journal   | 2021-22 |
| Sentiment Classification Using Feature Selection Techniques for Text Data Composed of Heterogeneous Sources | Vaishali Arya, Rashmi Agrawal  | Recent Advances in Computer Science and Communications (Formerly: Recent Patents on Computer Science) | 2021-22 |
| Soft Computing Techniques for Software Fault Prediction: Comparative Analysis                               | Gurmeet Kaur, Jyoti Pruthi, Parul Gandhi   | International Journal of Advance Computational Engineering and Networking (IJACEN)                    | 2021-22 |
| Software Reliability Assessment Using Hybrid Neuro-Fuzzy Model  | Parul Gandhi, Mohammad Zubair Khan, Ravi Kumar Sharma, Omar H. Alhazmi, Surbhi Bhatia, Chinmay Chakraborty | Computer Systems Science & Engineering  | 2021-22 |

#### h. Book Chapters: 2021-22

| Name of the teacher | Title of the book/chapters published | Title of the proceedings of the conference                           |
|---------------------|--------------------------------------|--|
| Anupama Chadha      | NA                                   | Deep Fake An Overview  |
| Chitra Jalota       | NA                                   | Feature Selection Algorithm and Student Academic Performance A Study |
| Chitra Jalota       | Privacy Preserving using Data Mining | NA   |

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|---------------|--|---|
| Mridula Batra | NA   | Optimizing Greedy Algorithm to Balance the Server Load in Cloud Simulated Environment           |
| Mridula Batra | Fault Tolerance Algorithm for Cloud Node Reliability   | NA  |
| Neerja Negi   | NA   | Clustering Algorithm in Healthcare  |
| Neha Gupta    | NA   | Imputation of Missing Values using Improved K-Means Clustering Algorithm to Attain Data Quality |
| Neha Gupta    | NA   | Polynomial Based Linear Regression Model to Predict COVID-19 Cases                              |
| Neha Gupta    | NA   | Systematic review of virtual reality its challenges   |
| Neha Gupta    | NA   | A systematic review of techniques, tools and applications of machine learning                   |
| Neha Gupta    | NA   | Analysis of COVID-19 data using machine learning techniques                                     |
| Neha Gupta    | Introduction to hardware accelerator system for artificial intelligence and machine learning | NA  |
| Neha Gupta    | NA   | Understanding and Implementing Machine Learning Models with Dummy Variables with Low Variance   |
| Neha Gupta    | NA   | Optimizing Greedy Algorithm to Balance the Server Load in Cloud Simulated Environment           |
| Neha Gupta    | NA   | An Analytical View of Revocable Attribute Based Encryption Scheme                               |
| Neha Gupta    | Fault Tolerance Algorithm for Cloud Node Reliability   | NA  |

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|------------------|--|--|
| Neha Gupta       | Transforming Cybersecurity Solutions Using Blockchain  | NA   |
| Neha Gupta       | Impact of Deep Learning on Semantic Sentiment Analysis   | NA   |
| Neha Gupta       | Integrating Semantic Acquaintance for Sentiment Analysis   | NA   |
| Parul Gandhi     | Significance of data mining in the domain of intrusion detection   | NA   |
| Parul Gandhi     | Data driven Decision Making using Analytics  | NA   |
| Parul Gandhi     | Internet of Things in Business Transformation Developing an Engineering and Business Strategy for Industry 5.0 | NA   |
| Poonam Chaudhary | NA   | Orthonormal wavelet transform for efficient feature extraction for sensory-motor imagery electroencephalogram brain-computer interface |
| Priyanka Sharma  | Internet of Things and Blockchain  | NA   |
| Rashmi Agrawal   | NA   | Analysis of COVID-19 data using machine learning techniques  |
| Rashmi Agrawal   | NA   | Feature Selection Algorithm and Student Academic Performance A Study   |
| Rashmi Agrawal   | NA   | Building English-Punjabi Parallel Corpus for Machine Translation   |
| Rashmi Agrawal   | NA   | Orthonormal wavelet transform for efficient feature extraction for sensory-motor imagery electroencephalogram brain-computer interface |
| Rashmi Agrawal   | Privacy Preserving using Data Mining   | NA   |
| Rashmi Agrawal   | Changing World Smart Homes   | NA   |

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|----------------|---|---|
|                | Review and Future   |   |
| Rashmi Agrawal | Blockchain Technology Applications for Next Generation      | NA  |
| Rashmi Agrawal | Swarm Intelligence Optimization Algorithms and Applications | NA  |
| Rashmi Agrawal | Smart IoT for Research and Industry                         | NA  |
| Rashmi Agrawal | NA  | Comparative Analysis of Machine Learning Algorithm for Hybrid Sources of Textual Data In Development of Domain Adaptable Sentiment Analysis Model |
| Rashmi Agrawal | NA  | Security and Privacy in IOT   |
| Rashmi Agrawal | NA  | A Review of Big Data and Machine Learning Techniques in Healthcare  |
| Rashmi Agrawal | NA  | Diabetes prediction by using Big Data Tool and Machine Learning Approaches  |
| Rashmi Agrawal | NA  | Multi Model Implementation on General Medicine Prediction with Quantum Neural Networks  |
| Rashmi Agrawal | NA  | Analysis of COVID-19 Data Using Machine Learning Techniques   |
| Rashmi Agrawal | Transforming Cybersecurity Solutions Using Blockchain       | NA  |
| Rashmi Agrawal | Impact of Deep Learning on Semantic Sentiment Analysis      | NA  |
| Rashmi Agrawal | Integrating Semantic Acquaintance for Sentiment Analysis    | NA  |
| S S Tyagi      | Blockchain for business, how it creates value               | NA  |
| S.S. Tyagi     | NA  | Secure data storage in cloud using encryption algorithm   |

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| S.S. Tyagi  | NA   | Design a Hybrid Algorithm Using ACO and Best-Fit Optimization Algorithm for Energy Consumption in Cloud Data Center |
| S.S. Tyagi  | NA   | An Analysis and Comparative Study of Data Deduplication Scheme in Cloud Storage                                     |
| Shaveta Bhatia  | Blockchain for business, how it creates value                      | NA  |
| Simran Jolly  | NA   | Building English–Punjabi Parallel Corpus for Machine Translation  |
| Sonal Pathak  | NA   | Impact of Internet of Things and Artificial Intelligence on Human Resource Development                              |
| Sonal Pathak  | Blockchain Enabled Supply Chain Management System                  | NA  |
| Vishawjyoti   | E-Wallets  | NA  |
| Parul Gandhi, N K Chadha  | Thesis Writing: A Complete Guide to Research and Phd Journey       | NA  |
| Parul Gandhi, N K Chadha  | Dissertation Writing: A Complete Guide to Research                 | NA  |
| Pramod Singh Rathore, Vishal Dutt, Rashmi Agrawal, Satya Murthy Sasubilli, and Srinivasa Rao Swarna | Deep Learning approaches to Cloud Security                         | NA  |
| Anupriya Jain, Sachin Sharma, Seema Sharma, Sonia Duggal  | Nature Inspired Algorithm and Applications                         | NA  |
| Sonal Pathak, Anupriya Jain, Sachin Sharma, Sonia Duggal  | Impact of Artificial Intelligence on Organisational Transformation | NA  |
| Anupama Pankaj Sachin Sharma Vasudha Arora  | Computational Science and Its Applications                         | NA  |
| Neerja Negi , Geetika Chawla  | Clustering Algorithm in Healthcare                                 | NA  |

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|---|--|----|
| Anupriya Jain, Seema Sharma, Sachin Sharma                                | Firefly  | NA |
| Anupama Chadha  | An Efficient K-means Algorithm: Generating Clusters Dynamically in MapReduce Framework | NA |
| Parul Gandhi  | Significance of data mining in the domain of intrusion detection                       | NA |
| Seema Sharma  | The Data given Blockchain Ecosystem  | NA |
| Parul Gandhi  | IoT-enabled healthcare - a paradigm shift  | NA |
| Neha Gupta, Rashmi Agrawal  | Integrating Semantic Acquaintance for Sentiment Analysis                               | NA |
| Chitra Jalota, Rashmi Agrawal   | Privacy Preserving using Data Mining   | NA |
| Pooja Tiwari<br>Vikas Garg<br>Rashmi Agrawal                              | Changing World: Smart Homes Review and Future  | NA |
| Neha Gupta, Rashmi Agrawal  | Epidemic Analysis of COVID-19 Using Machine Learning Techniques                        | NA |
| Neha Puri, Vikas Garg, Rashmi Agrawal                                     | Blockchain Technology Applications for Next Generation                                 | NA |
| Abhishek Kumar, Pramod Singh Rathore, Vicente Garcia Díaz, Rashmi Agrawal | Swarm Intelligence Optimization: Algorithm and Applications                            | NA |
| Melody Moh, Kanta Prasad Sharma, Rashmi Agrawal, Vicente Garcia Díaz      | Smart IoT for Research and Industry  | NA |
| Parul Gandhi, Surbhi Bhatia, Kapal Dev                                    | Data driven Decision Making using Analytics  | NA |

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|--|----|---|
| Nikhil, Neha Gupta, Arushi Saini, Santu Pandey   | NA | Instigating Decentralized Apps with Smart Contracts   |
| Isha Gupta, Inanath Chatterjee, Neha Gupta   | NA | Latent Semantic Analysis based Real-world Application of Topic modeling: A Review Study   |
| Ankit Raj, Manish Dubey, Lakshita Gugnani, Neha Gupta                                  | NA | Synergizing Smart Home with Smart Parking using IOT   |
| Anupam Tiwari, Usha Batra  | NA | Blockchain Enabled Internet-Of-Vehicles on Distributed Storage  |
| Kamal Batra, Parul Gandhi  | NA | Artificial Neural Network-Based Model for the Prediction of Evaporation in Agriculture  |
| Bharti Bisht, Parul Gandhi   | NA | Reusability Estimation of Object-Oriented (O-O) System Using SOM Technique  |
| Rajyalakshmi Jaiswal, Sailesh Suryanarayan Iyer, Kavita Arora                          | NA | Chronic Kidney Disease Detection Using Machine Learning Regression Models   |
| Bhagvender Singh, Kavita Arora, Sailesh Suryanarayan Iyer                              | NA | Intensify Assured PHR Sharing in Cloud Using Entropy Based Signature Cryptosystem   |
| Rashmi Agrawl, Neha Gupta  | NA | Impact of Activation Functions of Neural Network in Mammographic Masses   |
| Priyanka Sharma, Nitin Kumar Saran; Samrat Ray; Joel Alanya-Beltran; KorakodTongkachok | NA | An Exploratory analysis of Machine Learning adaptability in Big Data Analytics Environments: A Data Aggregation in the age of Big Data and the Internet of Things |
| Anupriya Jain  | NA | Language Comparison in various domain   |
| Anupriya Jain  | NA | Super Agent: Chatbot for customer support   |
| Anupriya Jain  | NA | Social media marketing strategies and its impact  |
| Parul Gandhi   | NA | Comparative Analysis Of Web Frameworks (Angularjs And Reactjs)  |
| Parul Gandhi   | NA | A Research Paper on Smart Agriculture Using IOT   |
| Raj Kumar  | NA | Review Paper on Blockchain Technology   |

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|---|----|---|
| Isha Gupta, Inanath Chatterjee, Neha Gupta                      | NA | Sentiment analysis of COVID-19 Tweets   |
| Usha Batra  | NA | Medical Cyber Physical System Enabled with Permissioned Blockchain  |
| Venkatesh Bharti, Vishal Sharma, Krishna Sureka, Rashmi Agarwal | NA | A Novel Smart Parking System Using IoT  |
| Kavita Arora  | NA | Chronic Kidney Disease Detection Using Machine Learning Regression Models                                   |
| Sonal Pathak, Kavita Arora, Mridula Batra                       | NA | Influence of Artificial Intelligence and Machine Learning Algorithm on Human Psychology and Decision Making |
| Divyansh Pushkarna, Mayank Bhati, Peeyush Sharma, Mridula Batra | NA | Reasons to Secure India against Cyber Attacks   |
| Shobha Chawla, Neha Gupta                                       | NA | An Analytical View of Revocable Attribute Based Encryption Scheme   |
| Nikhil, Arushi Saini, Santu Pandey, Neha Gupta                  | NA | Polynomial Based Linear Regression Model To Predict Covid-19 Cases  |
| Bharti Bisht, Parul Gandhi                                      | NA | Reusability Estimation of Object-Oriented (O-O) System using SOM Technique                                  |
| Neha Gupta, Mridula Batra, Anita Khosla                         | NA | Optimizing Greedy Algorithm to Balance the Server Load in Cloud Simulated Environment                       |
| Stephen Phillip, Pawan Vashisth, Anant Chaturvedi, Neha Gupta   | NA | Imputation of Missing Values using Improved K-Means Clustering Algorithm to Attain Data Quality             |
| Vishawjyoti, Nikhil Dutt, Mahak Gupta, Jai Singh                | NA | Home automation using internet of things  |
| Vishawjyoti, Nidhi Bhuttan, Muskan Jain, Shruti Varshney        | NA | Artificial Intelligence in Machine Learning   |
| Sonal Pathak, Apoorav Jhavar, Mukul Sharma, Archit Kohli        | NA | Improvised Security of IoT Through Blockchain   |

| <b>Board of Faculty</b> |                    |   |                 |
|-------------------------|--------------------|---|-----------------|
| 1                       | Dr. Pradeep Kumar  | Professor & Dean FCA  | Chairperson     |
| 2                       | Dr. Shaveta Bhatia | Prof. & Head-CA   | Member          |
| 3                       | Dr. Parul Gandhi   | Professor-CA  | Member          |
| 4                       | Dr. Sonal Pathak   | Associate Professor   | Member          |
| 5                       | Ms. Neerja Negi    | Assistant Professor   | Member          |
| 6                       | Dr. Usha Batra     | Professor & Dean-FCA  | Member          |
| 7                       | Dr. Rashmi Agrawal | Professor & Head-CA   | Member          |
| 8                       | Dr. C K Nagpal     | Professor, Dept. of Computer Science & Engg, J.C Bose University of Science & Technology, YMCA, Faridabad                       | External Member |
| 9                       | Dr. Nanhay Singh   | Professor & Head, CSE Department<br>Ambedkar Institute of Advanced<br>Communication Technologies and Research<br>(AIACTR) Delhi | External Member |

| <b>Board of Studies</b> |                    |  |                 |
|-------------------------|--------------------|--|-----------------|
| 1                       | Dr. Usha Batra     | Professor & Dean-FCA   | Chairperson     |
| 2                       | Dr. Rashmi Agrawal | Professor & HoD-CA   | Member          |
| 3                       | Dr. Parul Gandhi   | Professor-CA   | Member          |
| 4                       | Dr. Anupma Pankaj  | Professor-CA   | Member          |
| 5                       | Dr. Anupriya Jain  | Professor-CA   | Member          |
| 6                       | Dr. Neha Gupta     | Associate Professor-CA   | Member          |
| 7                       | Dr. Sonia Duggal   | Associate Professor-CA   | Member          |
| 8                       | Dr. Seema Sharma   | Assistant Professor-CA   | Member          |
| 9                       | Dr. Kavita Arora   | Assistant Professor-CA   | Member          |
| 10                      | Dr. Afshar Alam    | Professor & Dean,<br>School of Engineering Science &<br>Technology, Jamia Hamdard University,<br>New Delhi | External Member |
| 11                      | Mr. Siddharth Das  | President & Co-Founder, Stratemis Pvt<br>Ltd, Gurugram   | External Member |

### 3.5 FACULTY OF MEDIA & HUMANITIES

**Name of Department:**

**S.No. Name of Department**

1. Department of Journalism and Mass Communication
2. Department of English

**Admission Status:**

| Name of the Faculty                     | Departments                                 | Student Intake |    | Total Admissions |    |
|---|---|----------------|----|------------------|----|
|   |   | UG             | PG | UG               | PG |
| Faculty of Media Studies and Humanities | BA-Journalism and Mass Communication (BJMC) | 30             |    | 31               |    |
|   | BA (Hons) English                           | 30             |    | 29               |    |
|   | MA-Journalism and Mass Communication (MJMC) |                | 05 |                  | 01 |
|   | MA English                                  |                | 10 |                  | 08 |

**Faculty of Media & Humanities:**

**List of Faculty Member**

| Name of the Full-time teacher | Designation         | Department                      |
|-------------------------------|---------------------|---------------------------------|
| Suman Kumari                  | Associate Professor | Journalism & Mass Communication |
| Diksha Bhashkar Bhatia        | Assistant Professor | Journalism & Mass Communication |
| Ankita Bharti                 | Assistant Professor | Journalism & Mass Communication |
| Maithili Ganjoo               | Professor           | Journalism & Mass Communication |
| Rahul Joshi                   | Assistant Professor | Journalism & Mass Communication |
| Krishna Pandey                | Associate Professor | Journalism & Mass Communication |
| Mithali Mohanty               | Assistant Professor | Journalism & Mass Communication |
| Aman Vats                     | Professor           | Journalism & Mass Communication |
| Aditya Shukla                 | Associate Professor | Journalism & Mass Communication |
| Riya Gupta                    | Assistant Professor | Journalism & Mass Communication |
| Kumar Raajesh                 | Professor           | Journalism & Mass Communication |
| Kalyan Srinivas Raygalla      | Assistant Professor | Journalism & Mass Communication |
| Tinam Borah                   | Assistant Professor | Journalism & Mass Communication |
| Mantosh Kumar                 | Assistant Professor | Journalism & Mass Communication |
| Sujata                        | Associate Professor | English                         |
| Shivani Vashisht              | Professor           | English                         |
| Jyoti Sharma                  | Professor           | English                         |
| Swati Chauhan                 | Associate Professor | English                         |
| Tripti Tyagi                  | Assistant Professor | English                         |
| Jayashree Hazarika            | Assistant Professor | English                         |
| Mouli Chowdhury               | Assistant Professor | English                         |
| Kanupriya Pathik              | Associate Professor | English                         |



**DEPARTMENT OF JOURNALISM & MASS COMMUNICATION**

**i. Thrust Area:**

The Department of Journalism and Mass Communication established in 2007 offers courses at Bachelor, Post graduate and Doctoral levels, in Media Studies with focus on Journalism and Mass Communication including Advertising, Public Relations and Corporate Communication, Film production, Social Media Design and Development Communication. The Department has an in-house TV studio, Community radio station and dedicated labs to train students in the latest AR, MR and VR innovations that are impacting the news and entertainment industry. These media labs have state-of-the-art equipment and latest software to provide hands-on training to design and produce for different media like print, radio, television and video production. The Department has robust research capabilities, research projects on development communication, and sponsored workshops.

**ii. Academic Achievement:**

**a. Students benefited by career counseling and guidance for competitive Examinations: 2021-22**

| Activity Description  | No. of Participants |
|---|---------------------|
| Career Counseling on Challenges in News Gathering in the New Normal | 37                  |
| Career Counseling on Bharatvarshiya Communication                   | 51                  |

|   |    |
|---|----|
| Career Counseling on New World of Radio   | 43 |
| Television Journalism: The Success Mantra   | 63 |
| Career Guidance on Women in Newsroom: Icons of Glamour or Voices of the Marginalized? | 58 |
| Workshop on DSLR and Mobile Photography-Career Growth                                 | 50 |

**b. Student progression to higher education during the year:2021-22**

| Name of students enrolled for higher education | Graduated from which Programme         | Name of institution joined   | Admitted to (Name of Programme) |
|--|--|--|---------------------------------|
| Sakshi Sharma                                  | B.A.-Journalism and Mass Communication | Sharda University, Noida,U.P.  | MA JMC                          |
| Somya Sharma                                   | B.A.-Journalism and Mass Communication | Amity University Noida U.P.  | MA JMC                          |
| Vipin  | B.A.-Journalism and Mass Communication | Manav Rachna International Institute of Research and Studies,Haryana | MA JMC                          |
| Waquar Ali Ahmad                               | B.A.-Journalism and Mass Communication | Central University of Jammu  | MA JMC                          |
| Ankit Jaglan                                   | B.A.-Journalism and Mass Communication | Manav Rachna International Institute of Research and Studies,Haryana | MA JMC                          |
| Sahil Bhati                                    | B.A.-Journalism and Mass Communication | Manav Rachna International Institute of Research and Studies,Haryana | MA JMC                          |

**c. Faculty members: Awards & Recognitions: 2021-22**

| Name of Faculty Member   | Awards/Recognition   |
|--------------------------|--|
| Maithili Ganjoo          | Certificate of Recognition for presenting preliminary finding of National Survey insights during 'Media Mantra 2021-Unlocking Digital', Department of Extension & Communication, SNDT Women University, Juhu, Mumbai. (26-06-2021) |
| Aman Vats                | Certificate of Recognition for presenting preliminary finding of National Survey insights during 'Media Mantra 2021-Unlocking Digital', Department of Extension & Communication, SNDT Women University, Juhu, Mumbai. 26-06-2021   |
| Aman Vats                | Certificate of Recognition for contributing as Judge in Filmography Festival 2021, SJMC-K.R Mangalam, Woodpecker International Film Festival & Grey Matters Communication Consulting. (16-06-2021 to 17-06-2021)                   |
| Aman Vats                | Recognition as Reviewer of regular issue of the Advances in Science, Technology and Engineering Systems Journal. (28-06-2021)  |
| Kalyan Srinivas Raygalla | Recognition as Best English Language Professor of the Year (28-12-2021)  |

**d. FDPs attended by Faculty Members: 2021-22**

| <b>Name of Faculty Member</b> | <b>FDP/Workshop/Conference Attended</b>  | <b>Date From</b> | <b>Date To</b> |
|-------------------------------|--|------------------|----------------|
| Aman Vats                     | FDP on Effective Teaching Learning using Social Media recognised by AICTE                        | 06-06-2022       | 10-06-2022     |
| Kalyan Srinivas Raygalla      | FDP on Design and Development of Digital Media Curriculum  | 18-02-2022       | 22-02-2022     |
| Kalyan Srinivas Raygalla      | FDP on Effective Teaching Learning using Social Media recognised by AICTE                        | 06-06-2022       | 10-06-2022     |
| Kalyan Srinivas Raygalla      | FDP on Soft Skills and Personality Development recognised by AICTE                               | 13-06-2022       | 17-06-2022     |
| Krishna Pandey                | FDP on Effective Teaching Learning using Social Media recognised by AICTE                        | 06-06-2022       | 10-06-2022     |
| Krishna Pandey                | FDP on Graphics And Animation for Quality Instructional Material Development recognised by AICTE | 20-06-2022       | 24-06-2022     |
| Krishna Pandey                | FDP on Soft Skills & Personality Development recognised by AICTE                                 | 13-06-2022       | 17-06-2022     |
| Krishna Pandey                | AICTE recognised STC on Climate change, Disaster Management and Sustainable Development          | 25-04-2022       | 29-04-2022     |
| Maithili Ganjoo               | Workshop on Mapping Women's Movement in India and Worldwide                                      | 28-03-2022       | 03-04-2022     |
| Mantosh Kumar                 | FDP on Soft Skills and Personality Development recognised by AICTE                               | 13-06-2022       | 17-06-2022     |
| Mantosh Kumar                 | FDP on Graphics And Animation for Quality Instructional Material Development recognised by AICTE | 20-06-2022       | 24-06-2022     |
| Mithali Mohanty               | FDP on Soft Skills and Personality Development recognised by AICTE                               | 13-06-2022       | 17-06-2022     |
| Rahul Joshi                   | FDP on Effective Teaching Learning using Social Media recognised by AICTE                        | 06-06-2022       | 10-06-2022     |
| Rahul Joshi                   | FDP on Soft Skills and Personality Development recognised by AICTE                               | 13-06-2022       | 17-06-2022     |
| Rahul Joshi                   | FDP on Graphics And Animation for Quality Instructional Material Development recognised by AICTE | 20-06-2022       | 24-06-2022     |
| Rahul Joshi                   | FDP on Effective and Quality Research Writing-Phase III  | 13-06-2022       | 19-06-2022     |
| Suman Kumari                  | FDP on Soft Skills and Personality Development recognised by AICTE                               | 13-06-2022       | 17-06-2022     |
| Tinam Borah                   | FDP on Design & Development of Digital Media Curriculum  | 18-02-2022       | 22-02-2022     |
| Tinam Borah                   | FDP on NEP 2020 Implementation in Higher Education Institutes recognised by AICTE                | 09-05-2022       | 13-05-2022     |

**e. Event Organised: 2021-22**

| <b>Title</b>   | <b>From Date</b> | <b>To Date</b> |
|--|------------------|----------------|
| STC on Graphics and Animation for Quality Instructional Material Development in collaboration with NITTTR Chandigarh | 20-06-2022       | 24-06-2022     |



|                          |  |    |    |
|--------------------------|--|----|----|
| Maithili Ganjoo          | Broken Language Fractured Identities Role and Relevance of Kashmiri language broadcasts  | NA | NA |
| Krishna Pandey           | Advertising, Gender And Social Media-Board Examination And The Concept Of Pariksha Pe Charcha: A Study   | NA | NA |
| Prof. () Maithili Ganjoo | Regional Hindi Channels: Origin, Development, And Challenges , Regional Language Television In India   | NA | NA |
| Prof () Aman Vats        | Regional Hindi Channels: Origin, Development, And Challenges , Regional Language Television In India   | NA | NA |
| Suman Kashyap            | The Role Of Gender In Women Healthcare Communication: A Study Of Primary Health Care Center In Nagaur (Rajasthan), Advertising, Gender And Social Media                    | NA | NA |
| Prof. () Maithili Ganjoo | Coming Out Of The Closet: Emerging Third Gender ' Hero' Of The Popular Hindi Film-Analysing New Narratives , Advertising, Gender And Social Media                          | NA | NA |
| Suman Kashyap            | A Comparative Analysis Of Prime Time News Of Four Hindi News Channel During First Wave Of Covid-19 Pandemic , Covid-19 Impact And Fake News                                | NA | NA |
| Rahul Joshi              | An Online Review Of The Role Of Media And Its Impact On The Common Society During The Coronavirus Disease: A Special Reference To Delhi Ncr, Covid-19 Impact And Fake News | NA | NA |

#### DEPARTMENT OF ENGLISH

##### i) Thrust Area

- Research on diverse areas like Diaspora writings, Feminism, Post colonial Literature, Indian English Novels, Confessional Poetry, Mythology, Modern and Postmodern Literature
- UG and PG programs running with a robust and extensive syllabus.

**ii) Academic Achievements:**
**a. Student's Publications: 2021-22**

| <b>Title of paper</b>  | <b>Name of all the author/s</b>          | <b>Student Authors</b> | <b>Journal/Conference/Book Title</b>                                      |
|--|--|------------------------|---|
| Female Consciousness and Social realism in Jane Austen's Novels,   | Chinar Khatri and Dr. Jyoti Sharma       | Chinar Khatri          | Langlit- An international Peer reviewed International Open Access Journal |
| Greek Mythology in English Romantic Poetry   | Akansha Raghav and DR. Jyoti Sharma,     | Akansha Raghav         | Langlit- An international Peer reviewed International Open Access Journal |
| Relative study of Mahasweta Devi's Dopdi and Vyasa's Draupadi"   | Niyati Sharma and DR. Tripti Tyagi       | Niyati Sharma          | Quest Journals, Journal of Humanities and Social Sciences                 |
| Studying Virginia Woolf's "Shakespeare's Sister" as an epitaph on crushed talents of the Woman                             | Muskan Goel and Dr. Sujata               | Muskan Goel            | Snodh Sarita  |
| Mythological Reading of "Tess of the D'Urbervilles"  | Bhumika Sihag and Dr. Jyoti Sharma       | Bhumika Sihag          | Langlit- An international Peer reviewed International Open Access Journal |
| The Use of Bible in Milton's epics: Paradise Lost and Paradise Regained  | Aditi Jain and Dr. Jayshree Hazarika     | Aditi Jain             | International Journal of Scientific Research and Engineering Development  |
| Diasporic Consciousness in the namesake by Jhumpa Lahiri   | Shivani Vashist and Dr. Jyoti Sharma     | Shivani Vashist        | International Journal of Scientific Research and Engineering Development  |
| "The Witty and Intelligent Women: A Critical Study of Courtesans in India with reference to Vasantsena and Umrao Jaan Ada" | Aayushi Sharma and Dr. Sujata            | Aayushi Sharma         | Journal of Research and Humanities and Social Science                     |
| A Comparative Study of Mother-Son Relationship in Oedipus the King and Sons and Lovers                                     | Anshu Sharma and Dr. Sujata              | Anshu Sharma           | Langlit- An international Peer reviewed International Open Access Journal |
| "Modernity of Shakespeare"   | Radhika Parasher and Dr. Shivani Vashist | Radhika Parasher       | Quest Journal of Research in Humanities & Social Science                  |

**b. Students benefited by career counseling and guidance for competitive Examinations:  
2021-22**

| Activity Description  | No. of Participants |
|---|---------------------|
| Career Exploration / Creative and Technical Writing and Editing | 25                  |
| Career Counseling Session on "Future Career Opportunities"      | 10                  |
| Career Counseling Session on "How to Redefine your Career"      | 20                  |

**c. Students' progression to higher education in percentage during the year:  
2021-22**

| Name of students enrolled for higher education | Graduated from which Programme | Name of Institution Joined  | Admitted to (Name of Programme) |
|--|--------------------------------|---|---------------------------------|
| Anjali Pathak                                  | B.A. (Hons) - English          | Manav Rachna International Institute of Research and Studies, Haryana | MA English                      |
| Eshu Pathania                                  | B.A. (Hons) - English          | Manav Rachna International Institute of Research and Studies, Haryana | MA English                      |
| Mansa Panigrahi                                | B.A. (Hons) - English          | Manav Rachna International Institute of Research and Studies, Haryana | MA English                      |
| Shikhar Gothwal                                | B.A. (Hons) - English          | Manav Rachna International Institute of Research and Studies, Haryana | MA English                      |
| Smriti   | B.A. (Hons) - English          | Manav Rachna International Institute of Research and Studies, Haryana | MA English                      |
| Shambhavi Tarun                                | B.A. (Hons) - English          | Guru Gobind Singh Indraprastha University, Delhi                      | MA English                      |
| Riya Kataria                                   | B.A. (Hons) - English          | Manav Rachna International Institute of Research and Studies, Haryana | MA English                      |
| Ankita Sehrawat                                | B.A. (Hons) - English          | Manav Rachna International Institute of Research and Studies, Haryana | MA English                      |
| Aakriti Srivastava                             | B.A. (Hons) - English          | Indira Gandhi National Open University -IGNOU, Delhi                  | MA English                      |

|                      |                       |   |                                   |
|----------------------|-----------------------|---|-----------------------------------|
| Abhinav Mangla       | B.A. (Hons) - English | Coventry University   | MBA                               |
| Alisha Gulati        | B.A. (Hons) - English | Indira Gandhi National Open University -IGNOU, Delhi                  | MA English                        |
| Bhawna Bajaj         | B.A. (Hons) - English | Amity University, Noida   | B Ed                              |
| Gunika Dudeja        | B.A. (Hons) - English | NIIMS Global Access school for continuing education                   | Diploma in operations management. |
| Himani Sangwan       | B.A. (Hons) - English | LLOYD law college   | LLB                               |
| Manisha Dagar        | B.A. (Hons) - English | Manav Rachna University, Haryana                                      | B Ed                              |
| Nishu Rani           | B.A. (Hons) - English | Saraswati Mahila Mahavidyalaya, Haryana                               | M.A English                       |
| Rama Chauhan         | B.A. (Hons) - English | Manav Rachna University, Haryana                                      | B Ed                              |
| Tanushri Tiwari      | B.A. (Hons) - English | Bharat sarkar prashikshansansthan, Delhi                              | Interior Design and decoration    |
| Hiba Ghazal          | B.A. (Hons) - English | Jamia Millia Islamia, Delhi   | M.A (Arab-Islamic culture)        |
| Kundan Raj Choudhary | B.A. (Hons) - English | Manav Rachna International Institute of Research and Studies, Haryana | MA Eng                            |
| Shivangi Jain        | M.A.- English         | Manav Rachna International Institute of Research and Studies, Haryana | PhD English                       |
| Chinar Khatri        | M.A.- English         | Manav Rachna International Institute of Research and Studies, Haryana | PhD English                       |

#### d. FDPs attended by Faculty Members:2021-22

| Name of Faculty Member | FDP/Workshop/Conference Attended   | Date From  | Date To    |
|------------------------|--|------------|------------|
| Jayashree Hazarika     | AICTE Training and Learning (ATAL) Academy FDP on "Life Skills for Blissful Life" at Centre for Life Skills & Soft Skills (CLAS), Swaraj Sadan, M.D University Rohtak. | 13-12-2021 | 17-12-2021 |
| Jayashree Hazarika     | AICTE Training and Learning (ATAL) Academy FDP on "Life Skills for Blissful Life" at Centre for Life Skills & Soft Skills (CLAS), Swaraj Sadan, M.D University Rohtak. | 13-12-2021 | 17-12-2021 |

|                    |  |            |            |
|--------------------|--|------------|------------|
| Jayashree Hazarika | One week FDP on Soft Skills & Personality Development recognised by AICTE  | 13-06-2022 | 17-06-2022 |
| Jayashree Hazarika | FDP on Effective Teaching Learning using Social Media recognised by AICTE  | 06-06-2022 | 10-06-2022 |
| Jyoti Sharma       | One week FDP on Soft Skills & Personality Development recognised by AICTE  | 13-06-2022 | 17-06-2022 |
| Jyoti Sharma       | One week FDP on Business Startups and Innovation Management recognised by AICTE  | 06-06-2022 | 10-06-2022 |
| Kanupriya Pathik   | One week FDP on Soft Skills & Personality Development recognised by AICTE  | 13-06-2022 | 17-06-2022 |
| Shivani Vashisht   | ATAL FDP on Art and Science of Effective Teaching: Strategies and Methods  | 21-02-2022 | 25-02-2022 |
| Shivani Vashisht   | FDP on Effective Teaching Learning using Social Media recognised by AICTE  | 06-06-2022 | 10-06-2022 |
| Shivani Vashisht   | FDP on Soft Skills and Personality Development recognised by AICTE   | 13-06-2022 | 17-06-2022 |
| Sujata             | One week FDP on Soft Skills & Personality Development recognised by AICTE  | 13-06-2022 | 17-06-2022 |
| Sujata             | One week FDP on Business Startups and Innovation Management recognised by AICTE  | 06-06-2022 | 10-06-2022 |
| Swati Chauhan      | AICTE Training and Learning (ATAL) Academy FDP on "Life Skills for Blissful Life" at Centre for Life Skills & Soft Skills (CLAS), Swaraj Sadan, M.D University Rohtak. | 13-12-2021 | 17-12-2021 |
| Swati Chauhan      | FDP on NEP 2020 Implementation in Higher Education Institutes recognised by AICTE  | 09-05-2022 | 13-05-2022 |
| Swati Chauhan      | One week FDP on Soft Skills & Personality Development recognised by AICTE  | 13-06-2022 | 17-06-2022 |
| Tripti Tyagi       | One week FDP on Soft Skills & Personality Development recognised by AICTE  | 13-06-2022 | 17-06-2022 |
| Tripti Tyagi       | FDP on Effective Teaching Learning using Social Media recognised by AICTE  | 06-06-2022 | 10-06-2022 |

#### e. Events Organised: 2021-22

| Title   | From Date  | To date    |
|---|------------|------------|
| International Conference on 'Cultural Unification through Literature and Language' in collaboration with CAPE CAMORIN TRUST | 28-01-2022 | 29-01-2022 |
| FDP on 'Soft Skills and Personality Development' in collaboration with NITTTR Chandigarh                                    | 13-06-2022 | 17-06-2022 |

#### f. Faculty members: Awards & Recognitions: 2021-22

| Name of Faculty Member | Awards/Recognition   |
|------------------------|--|
| Swati                  | Recognition as Invited as a Resource person for the conduct of Impact lecture on Entrepreneurship and Skill Development organized by Institution Innovative council at Nazareth College of Arts and Science (Affiliated to University of Madras), Avadi, Chennai. (29-06-2021) |
| Shivani Vashisht       | Awarded for Grant of ICSSR Research project: An Exploratory Study of Ashapura Devi and Suchitra Bhattacharya: Narratives of Resistance and Re-Assertion (11-03-2022)   |

**g. Faculty Research Papers: 2021-22**

| <b>Title of paper</b>   | <b>Name of the author/s</b>           | <b>Name of journal</b>   | <b>Year of publication</b> |
|---|---------------------------------------|--|----------------------------|
| "Such A Strong Wish For Wings': Charlotte Bronte's Cultural Interactions"   | Gurvandana R M Singh and Jyoti Sharma | The Journal Of Oriental Research Madras                        | 2021-22                    |
| A Critical Study Of Feminism In The Novels Of Namita Gokhale  | Akhand & Tripti Tyagi                 | Utkal Historical Research Journal                              | 2021-22                    |
| A Study Of Vedantic Culture In WB Yeats's Selected Works  | Shivangi & Tripti Tyagi               | Dickensian Journal   | 2021-22                    |
| Account Of Resistance Of Women In The Hegemonic Power Structure In Suchitra Bhattacharya's Novels - Dahan: The Burning and Hemanter Pakhi (Autumn Bird) | Kajal Chaudhary and Shivani Vashist   | Journal Of Education: Rabindra Bharati University (Print form) | 2021-22                    |
| An Exploration into the Struggle for Identity in Manju Kapur's Difficult Daughters  | Ritika Singh & Shivani Vashist        | Shodh Samhita  | 2021-22                    |
| Catharsis through Confessional Poetry   | Ivy Dasgupta and Jyoti Sharma         | Kala Sarovar   | 2021-22                    |
| Dislocation and Relocation of Self: A study of Meena Alexander's Manhattan Music  | Apoorva Hooda & Swati Chauhan         | Kanpur Philosophers  | 2021-22                    |
| Historical Analysis Of Poetry As Confession"  | Ivy Dasgupta ,Jyoti Sharma            | The journal of Oriental Research Madras                        | 2021-22                    |
| Mythology: Backbone Of The Literature   | Jitender & Tripti Tyagi               | Shodh Samhita  | 2021-22                    |
| Personal Experience or Fictional Story: A Study of Ice Candy Man  | Mahek Dudeja and Shivani Vashist      | Shodh Samhita  | 2021-22                    |
| Pinjar-A Critical Study of Displacement and Dislocation   | Mahek Dudeja and Shivani Vashist      | Juni Khyat   | 2021-22                    |
| Relationships And The Sense Of Loyalty In Khalid Hosseini'S The Kite Runner   | Ashu Yadav and Jyoti Sharma           | Turkish online journal of Qualitative Inquiry                  | 2021-22                    |
| Resistance of the Subaltern: Heathcliff in Wuthering Heights  | Gurvandana R M Singh and Jyoti Sharma | Tatva Sindhu   | 2021-22                    |
| Significance of Ramayana Amid Covid 19  | Swati Chauhan and Lata Bhardwaj       | DogoRangsang Research Journal                                  | 2021-22                    |
| State of despair in the characters of Anita Desai's Fictional world   | Shweta & Swati Chauhan                | DogoRangsang Research Journal                                  | 2021-22                    |
| The Absolute Place Of Animals In Indian Culture Through the Works Of Devdutt Pattanaik  | Jyoti Balhara & Jayashree Hazarika    | The Journal Of Oriental Research Madras                        | 2021-22                    |
| The Artists Tryst With Nature With Special Reference To The First Generation Writers In Indian English  | Swati chauhan, Sujata & Jyoti Sharma  | Turkish Online Journal of Qualitative Inquiry                  | 2021-22                    |
| The Importance of Food in Hindu Spiritualism Through the Works of Devdutt Pattanaik   | Jyoti Balhara & Jayashree Hazarika    | International Journal of Special Education                     | 2021-22                    |

|   |   |   |         |
|---|---|---|---------|
| The Myth Re-Enacted Sisyphus And Heathcliff   | Guru Vandana R. M. Singh , Jyoti Sharma | Turkish Online Journal of Qualitative Inquiry | 2021-22 |
| The Theme Of Marriage and Matrimonial Slavery | Manbir Singh & Shivani vashist          | NIU International Journal of Human Rights     | 2021-22 |

#### h. Book Chapters: 2021-22

| Name of the teacher                                     | Title of the book/ chapters published  | Title of the paper | Title of the proceedings of the conference / |
|---|--|--------------------|--|
| Jyoti Sharma, Sujata, Swati Chauhan, Jayashree Hazarika | Women's Writings and Postcolonial Literature   | NA                 | NA   |
| Jyoti Sharma  | Leading the Digital Way, Virtual Classroom during Covid 19 Pandemic in the Indian Context: | NA                 | NA   |

| Board of Faculty |                            |   |                 |
|------------------|----------------------------|---|-----------------|
| 1                | Dr. Maithili Ganjoo        | Professor & Dean  | Chairperson     |
| 2                | Dr. Shvani Vashisht        | Professor & HOD   | Member          |
| 3                | Dr. Aman Vats              | Professor   | Member          |
| 4                | Dr. Swati Chauhan          | Associate Professor                                       | Member          |
| 5                | Dr. Krishna Pandey         | Associate Professor                                       | Member          |
| 6                | Dr. Kanupriya Pathak       | Assistant Professor                                       | Member          |
| 7                | Dr. Tinam Borah            | Assistant Professor                                       | Member          |
| 8                | Dr. Manukonda Rabindranath | PROFESSOR & HEAD, CENTER OF MEDIA STUDIES, JNU, NEW DELHI | External Member |
| 9                | Prof. Anup Beniwal         | DEAN, SCHOOL OF HUMANITIES & SOCIAL SCIENCES , GGSIP      | External Member |

| <b>Board of Studies-Journalism and Mass Communication</b> |                       |                     |                 |
|---|-----------------------|---------------------|-----------------|
| 1   | Dr. Aman Vats         | Professor           | Chairperson     |
| 2   | Dr. Maithili Ganjoo   | Professor           | Member          |
| 3   | Dr. Kumar Raajesh     | Professor           | Member          |
| 4   | Dr. Suman Kumari      | Associate Professor | Member          |
| 5   | Dr. Krishna Pandey    | Associate Professor | Member          |
| 6   | Dr. Tinam Borah       | Assistant Professor | Member          |
| 7   | Mr. Rahul Joshi       | Assistant Professor | Member          |
| 8   | Dr. Manoj Kumar Singh | Associate Professor | External Member |
| 9   | Mr. Samir Kapur       | Director            | External Member |

| <b>Board of Studies-English</b> |                       |   |                 |
|---------------------------------|-----------------------|---|-----------------|
| 1                               | Dr Shivani Vashist    | Professor and Head-Dept of English  | Chairperson     |
| 2                               | Dr Jyoti Sharma       | Professor, Dept of English  | Member          |
| 3                               | Dr Sujata             | Associate Professor, Dept of English  | Member          |
| 4                               | Dr Jayashree Hazarika | Assistant Professor, Dept of English  | Member          |
| 5                               | Dr. Tripti Tyagi      | Assistant Professor, Dept of English  | Member          |
| 6                               |                       |   | Member          |
| 7                               | Prof. Anup Beniwal    | University School Humanities and Social Sciences, GGSIP University, Dwarka, Delhi | External Member |
| 8                               | Prof. T.N. Dhar       | Retd. Professor, University of Kashmir  | External Member |

### 3.6. FACULTY OF MANAGEMENT STUDIES

#### Department of Management Studies

##### Admission Status:

| Name of the Faculty           | Programme                                | Student Intake |     | Total Admissions |    |
|-------------------------------|--|----------------|-----|------------------|----|
|                               |  | UG             | PG  | UG               | PG |
| Faculty of Management Studies | Masters in Business Administration (MBA) |                | 120 |                  | 78 |

#### FACULTY OF MANAGEMENT STUDIES

##### List of Faculty Members

| Name of the Full-time teacher | Designation         | Department |
|-------------------------------|---------------------|------------|
| Amit Seth                     | Professor           | Management |
| Nandini Srivastava            | Professor           | Management |
| Priyanka Singh                | Professor           | Management |
| Amardeep Dhaliwal             | Associate Professor | Management |
| Stuti Sahni                   | Associate Professor | Management |
| Anindita Chatterjee Rao       | Professor           | Management |
| Deepti Dabas Hazarika         | Professor           | Management |
| Shilpa Arora                  | Assistant Professor | Management |
| Farhat Mohsin                 | Professor           | Management |
| Surbhi Kapur                  | Professor           | Management |
| Bhavesht Prakash Joshi        | Professor           | Management |
| Gautam Srivastava             | Professor           | Management |
| Meghna Chhabra                | Associate Professor | Management |
| Sanjay Srivastava             | Professor           | Management |
| Ridhi Khattar                 | Assistant Professor | Management |
| Rakesh Kumar Anand            | Professor           | Management |
| Soma Arora                    | Professor           | Management |
| Apurva Anil Chauhan           | Assistant Professor | Management |
| Niharika                      | Assistant Professor | Management |
| Swati Punjani                 | Assistant Professor | Management |



**Department at a Glance:**

**1. DEPARTMENT OF MANAGEMENT STUDIES**

**i) Thrust Area**

- Sustainable Business Practices
- Women Entrepreneurship
- Student Skill Enhancement
- Project based/ Peer Learning
  
- Industry/Global Outreach

**ii) Academic Achievements**

**a. Student's Publications:2021-22**

| Title of paper  | Name of all the author/s | Student Authors | Journal/Conference/Book Title  |
|---|--------------------------|-----------------|--|
| Analyzing the Effect of Social Issue Based Advertising on the Brand Image of FMCG Companies | Anurakti Jain            | Anurakti Jain   | International Conference on Empowering Emerging Economies: Entrepreneurs, Women and Businesses |

|  |                                       |                                       |  |
|--|---------------------------------------|---------------------------------------|--|
| Analyzing the Impact of Instagram on Consumer Buying Behavior                        | Pratibha Aggarwal and Drishti Arora   | Pratibha Aggarwal and Drishti Arora   | International Conference on Empowering Emerging Economies: Entrepreneurs, Women and Businesses |
| A Study on the Impact of Covid -19 on Lifestyle Related Behaviour in Delhi NCR.      | Jyoti, Shilpa Arora And Jeswin George | Jyoti, Shilpa Arora And Jeswin George | International Conference on Empowering Emerging Economies: Entrepreneurs, Women and Businesses |
| A Study on Evolution of Fintech in the Financial Industry: A Case Study of Ringmoney | Anurakti Jain, Amandeep Dhaliwal      | Anurakti Jain, Amandeep Dhaliwal      | International Conference on Empowering Emerging Economies: Entrepreneurs, Women and Businesses |
| Job Layoff and Mental Health   | Kushagra Agarwal, Shipra Basor        | Kushagra Agarwal, Shipra Basor        | International Conference on Empowering Emerging Economies: Entrepreneurs, Women and Businesses |
| Airport and Terminal Designing: Sustainable Environmental Development                | Anant Jain and Mayank Vashisht        | Anant Jain and Mayank Vashisht        | International Conference on Empowering Emerging Economies: Entrepreneurs, Women and Businesses |

**b. Students benefited by career counseling and guidance for competitive Examinations:  
2021-22**

| Activity Description   | No. of Participants |
|--|---------------------|
| Expert Session- Countdown To Corporate Careers   | 70                  |
| HR Round table-Countdown To Corporate Careers  | 123                 |
| Expert Session for Career Guidance in IB Operations  | 12                  |
| Expert Session and Career Guidance on Compensation & Benefits Management   | 22                  |
| Expert Session on Corporate & Workplace Practices for a Successful Career  | 86                  |
| Countdown to Corporate Careers: Session on Company - formation & regulation, Memorandum& Articles of Association   | 76                  |
| Countdown to Corporate Careers: Session on Meetings & Resolutions, Appointments & Remuneration of Managerial Personnel   | 75                  |
| Countdown to Corporate Careers: Expert session on "Organization culture and employee engagement" by Mr. H K Gandhi, Former Group HR Head, InterGlobe Enterprises                               | 54                  |
| Countdown to Corporate Careers: Expert session on "Strategy Formulation and Airline service Quality by Mr. Bhargava Ramana Rayaprolu, CEO, Maruthsakra Aerospace and Aviation                  | 3                   |
| Countdown to Corporate Careers: Expert session on " Aircraft Facility Cargo and operations and service function in Airline Industry by Sushant Nigam, International Air Cargo & AEO Consultant | 11                  |
| Countdown to Corporate Careers: Expert session on "Evolving role of Finance" by Mr. Ajay Seth, Chief Financial Officer, Maruti Suzuki.   | 55                  |

**c. Student progression to higher education during the year: 2021-22**

| Name of students enrolled for higher education | Graduated from which Programme    | Name of institution joined  | Admitted to (Name of Programme) |
|--|-----------------------------------|---|---------------------------------|
| Arshdeep Singh                                 | Master of Business Administration | SWANSEA University, U.K.  | MSc- Operation & Supply Mgt     |
| Juli   | Master of Business Administration | Tentishev Asian Medical Institute                                     | MD Physician                    |
| Jyoti Kumar                                    | Master of Business Administration | Manav Rachna International Institute of Research and Studies, Haryana | Phd                             |

**d. Faculty members: Awards & Recognitions: 2021-22**

| Name of Faculty Member | Awards/Recognition  |
|------------------------|---|
| Amandeep Dhaliwal      | Recognition as Keynote Speaker in International Conference on Finance, Information Technology & management at Ghanzou China (24-09-2021 to 26-09-2021)  |
| Stuti Sahni            | Recognition as Invited Speaker to deliver session on "Enhancing efficiency and effectiveness at workplace: Strategies" during training programme on Enhancing Administrative Efficiency, Haryana Institute of Public Administration. (04-06-2021)   |
| Stuti Sahni            | Recognition as Invited Speaker to deliver session on "Enhancing Administrative Efficiency: Work in Professional Manner" for Vigilance officers of Haryana during "Training Program on Capacity Building in Service Matters", Haryana Institute of Public Administration. (07-06-2021)           |
| Stuti Sahni            | Recognition as Invited Speaker to deliver session on "Simplified Strategies for Improving Administrative Efficiency" for Teachers from the Department of School Education of Haryana during "Training Program on Quality Improvement", Haryana Institute of Public Administration. (15-06-2021) |
| Stuti Sahni            | Recognition as Invited Speaker to deliver session on "Human Values and Professional Ethics" in "Training Programme organised by Haryana Institute of Public Administration. (23-06-2021)  |
| Stuti Sahni            | Recognition as Invited Speaker to deliver session on "Enhancing Administrative Efficiency: Work in Professional Manner" in Training Programme organised by Haryana Institute of Public Administration. (12-07-2021)   |
| Stuti Sahni            | Recognition as Invited Speaker to deliver lecture on "Enhancing Administrative Efficiency: Through digital mode" (07-12-2021)   |
| Meghna Chhabra         | Recognition as Invited Speaker to deliver lecture on Writing Up of Research Proposals, Research Projects and Research Reports" (11-07-2021 to 17-07-2021)   |
| Meghna Chhabra         | Recognition as Invited Speaker to deliver lecture on "Women Entrepreneurship" at ATAL FDP on Entrepreneurship Development & Managing Start Ups at Babasaheb Bhimrao Ambedkar University, Lucknow (19-11-2021)   |
| Meghna Chhabra         | Recognition for publishing patent: LSM Luggage Trolleys: Intelligent Shopping Mall Luggage Trolleys (17-06-2021)  |
| Deepti Dabas Hazarika  | Recognition as Invited Speaker to deliver lecture on Roadmap to NBA Accreditation: Driving Outcomes for Education (01-11-2021)  |

**e. FDPs attended by Faculty Members: 2021-22**

| Name of Faculty Member  | Title   | From Date  | To Date    |
|-------------------------|---|------------|------------|
| Amandeep Dhaliwal       | FDP on Developing Real Life Case Studies  | 20-12-2021 | 24-12-2021 |
| Amandeep Dhaliwal       | ATAL FDP on Developing Real Life Case Studies   | 20-12-2021 | 24-12-2021 |
| Anindita Chatterjee Rao | FDP on Leadership Mastery Through Self Management   | 27-12-2021 | 31-12-2021 |
| Anindita Chatterjee Rao | FDP on Inculcating universal values in technical education organised by AICTE             | 14-03-2022 | 18-03-2022 |
| Apurva Anil Chauhan     | Online Workshop Structural Equation Modeling and Artificial Neural Network                | 21-05-2022 | 19-06-2022 |
| Bhavesh Prakash Joshi   | FDP on Effective Teaching Learning using Social Media recognised by AICTE                 | 06-06-2022 | 10-06-2022 |
| Deepti Dabas Hazarika   | NBA Accreditation Process   | 28-06-2021 | 02-07-2021 |
| Deepti Dabas Hazarika   | FDP on Developing Interpersonal Skills and Effective Communication Intelligence           | 06-12-2021 | 10-12-2021 |
| Gautam Srivastava       | FDP on Leadership for Academicians Programme(LEAP) Recognised by AICTE                    | 13-06-2022 | 17-06-2022 |
| Niharika                | Online Workshop Structural Equation Modeling and Artificial Neural Network                | 21-05-2022 | 19-06-2022 |
| Priyanka Singh          | FDP on Developing Real Life Case Studies  | 20-12-2021 | 24-12-2021 |
| Priyanka Singh          | ATAL FDP on Developing Real Life Case Studies   | 20-12-2021 | 24-12-2021 |
| Ridhi Khattar           | FDP on Effective Teaching Learning using Social Media recognised by AICTE                 | 06-06-2022 | 10-06-2022 |
| Shilpa Arora            | ATAL FDP on Supply chain management   | 17-01-2022 | 21-02-2022 |
| Shilpa Arora            | ATAL FDP on Innovative Technical Education Practices and Academic Leadership              | 07-02-2022 | 11-02-2022 |
| Shilpa Arora            | ATAL FDP on Emerging issues and recent advancements in Demand and Supply chain management | 07-01-2022 | 11-01-2022 |
| Stuti Sahni             | FDP on Entrepreneurship Development   | 24-05-2021 | 05-06-2021 |
| Surbhi Kapur            | FDP on Soft Skills and Personality Development recognised by AICTE                        | 13-06-2022 | 17-06-2022 |

**f. Events Organised: 2021-22**

| Title  | From Date  | To Date    |
|--|------------|------------|
| Faculty Development Program on Leadership and Team Building-Professional Development Program for teaching staff  | 12-07-2021 | 16-07-2021 |
| International Conference on Empowering Emerging Economies:Entrepreneurs,Women and Businesses : MRCON 2022 in collaboration with University of Maribor.Slovenia | 18-02-2022 | 19-02-2022 |
| FDP on Contemporary Industry Practices for Pedagogical Enhancement   | 23-02-2022 | 25-02-2022 |



|                           |  |  |  |
|---------------------------|--|--|--|
| Bhavesh<br>Prakash Joshi  | Crouching tiger,<br>beware India<br>a case study of South<br>Korean IT industry"   | NA   | NA   |
| Bhavesh<br>Prakash Joshi  | NA   | Role of IT in customer<br>relationship management<br>with special reference to<br>Banking Sector | Emerging Trends in Technology<br>Management. |
| Bhavesh<br>Prakash Joshi  | NA   | Dangee Du (Case Study)   | NA   |
| Bhavesh<br>Prakash Joshi  | NA   | Regulations in Financial<br>System   | NA   |
| Rajat Gera                | NA   | Diagonal recurrent neural<br>network based prediction<br>model for sales forecasting             | Studies in Computational<br>Intelligence     |
| Sahil Malik               | Acceptance and<br>Adoption of Blockchain<br>Technology: An<br>Examination of the<br>Security & Privacy<br>Challenges   | NA   | NA   |
| Amit Seth,<br>Monika Goel | Real Life Management<br>Case Studies-<br>Developed In Factual<br>Conversation with<br>Industry Leaders,<br>Bhartiya Valves Pvt<br>Ltd.- A Case of<br>Entrepreneurial<br>Excellence | NA   | NA   |

| <b>Board of Faculty</b> |                              |   |          |
|-------------------------|------------------------------|---|----------|
| 1                       | Dr. Nand Lal Dhameja         | Professor & Dean,<br>Department of Management Studies           | Chairman |
| 2                       | Lt Gen Rakesh Kumar<br>Anand | Professor and Dean-FMS  | Member   |
| 3                       | Dr. Deepti Dabas Hazarika    | Professor, Director & Head,<br>Department of Management Studies | Member   |
| 4                       | Dr. Surbhi Kapur             | Professor,<br>Department of Management Studies                  | Member   |
| 5                       | Dr. Meghna Chhabra           | Associate Professor,<br>Department of Management Studies        | Member   |
| 6                       | Dr. Bhavesh Prakash Joshi    | Professor, Director & Head -FMS-UG                              | Member   |
| 7                       | Dr Anindita Chatterjee Rao   | Professor   | Member   |
| 8                       | Dr Narinder Tanwar           | Professor   | Member   |
| 9                       | Dr. Amandeep Dhaliwal        | Assoc. Prof   | Member   |
| 10                      | Dr. Anjali Singh             | Assoc. Prof, Dept of UG   | Member   |

|    |                         |                         |                 |
|----|-------------------------|-------------------------|-----------------|
| 11 | Dr. Shilpa Arora        | Assistant Professor     | Member          |
| 12 | Ms. Madhumita Mahapatra | Assistant Professor     | Member          |
| 13 | Dr. Shalini Srivastava  | Professor               | Member          |
| 14 | Dr. Ridhi Khattar       | Assistant Professor     | Member          |
| 15 | Dr. Ajay Kumar Jain     | Professor, MDI, Gurgaon | External Member |
| 16 | Mr. Manas Sarkar        | Uflex Ltd., Noida       | External Member |

| <b>Board of Studies</b> |                            |  |                 |
|-------------------------|----------------------------|--|-----------------|
| 1                       | Dr Deepti Dabas Hazarika   | Professor, Director & Head   | Member          |
| 2                       | Dr Surbhi Kapur            | Professor  | Member          |
| 3                       | Dr Anindita Chatterjee Rao | Professor  | Member          |
| 4                       | Dr Gautam Srivastava       | Professor  | Member          |
| 5                       | Dr. Farhat Mohsin          | Professor  | Member          |
| 6                       | Dr. Priyanka Singh         | Professor  | Member          |
| 7                       | Dr Nandini Srivastava      | Professor  | Member          |
| 8                       | Dr. Meghna Chhabra         | Associate Professor  | Member          |
| 9                       | Dr. Amandeep Dhaliwal      | Associate Professor  | Member          |
| 10                      | Dr Ridhi Khattar           | Associate Professor  | Member          |
| 11                      | Dr. Apurva Anil Chauhan    | Assistant Professor  | Member          |
| 12                      | Dr M.K Bhat                | Professor  | Member          |
| 13                      | Mr. Himanshu Pawar         | Founder  | Member          |
| 14                      | Dr. Bhavesh Prakash Joshi  | Professor  | Member          |
| 15                      | Dr. Shilpa Arora           | Assistant Professor  | Member          |
| 16                      | Ms. Rachna Aggarwal        | Associate Professor,<br>Department of Management Studies,<br>J. C. Bose university of Science &<br>Technology, Faridabad | External Member |
| 17                      | Mr. Saurabh Dhall          | Pracharnama Media Pvt. Ltd.  | External Member |

### 3.7 FACULTY OF HOTEL MANAGEMENT

#### Department of Hotel Management

##### Admission Status:

| Name of the Faculty | Programme                                  | Student Intake |    | Total Admissions |    |
|---------------------|--|----------------|----|------------------|----|
|                     |  | UG             | PG | UG               | PG |
|                     | B.Sc. Hospitality and Hotel Administration | 20             |    | 19               |    |

#### Faculty of Hotel Management

##### List of Faculty Members

| Name of the Full-time teacher | Designation         | Department       |
|-------------------------------|---------------------|------------------|
| Ritika Singh                  | Assistant Professor | Hotel Management |
| Narender Suhag                | Associate Professor | Hotel Management |
| Prachi                        | Assistant Professor | Hotel Management |
| Nikita Tomar                  | Assistant Professor | Hotel Management |
| Kunal                         | Assistant Professor | Hotel Management |
| Madhav Anand Sharma           | Assistant Professor | Hotel Management |
| Vikas Singh                   | Professor           | Hotel Management |



**DEPARTMENT OF HOTEL MANAGEMENT STUDIES**
**i) Thrust Area**

- Experiential Learning
- Entrepreneurship
- Industry Exposure through Visits
- Culinary Competitions
- Visits to exclusive Hospitality events

**Future Planning**

- Better Integration of Restaurant with the Kitchen.
- Organise Hospitality Conferences and Workshops in our University.
- Participate in Culinary Competitions.
- Research and Innovation for Faculty and Students.

**ii) Academic Achievements**
**a. Students benefited with career counseling and guidance for competitive Examinations: 2021-22**

| Activity Description                | No. of Participants |
|-------------------------------------|---------------------|
| Webinar on Careers in Hospitality   | 29                  |
| Education leaders Summit            | 25                  |
| Career in Hotel Management          | 15                  |
| International Housekeeping Week     | 25                  |
| World Tourism Day                   | 40                  |
| International Chefs Day             | 30                  |
| Career Guidance in Hotel management | 40                  |

**b. Student's Publications:2021-22**

| Title of paper  | Name of all the author/s | Student Authors | Journal/Conference/Book Title  |
|---|--------------------------|-----------------|--|
| Analyzing the Effect of Social Issue Based Advertising on the Brand Image of FMCG Companies | Anurakti Jain            | Anurakti Jain   | International Conference on Empowering Emerging Economies: Entrepreneurs, Women and Businesses |

**c. Student progression to higher education during the year: 2021-22**

| Name of students enrolled for higher education | Graduated from which Programme             | Name of institution joined | Admitted to (Name of Programme)               |
|--|--|----------------------------|---|
| Nermati Mani Kumar Reddy                       | B.Sc.-Hospitality and Hotel Administration | Fanshawe Toronto Campus    | Hospitality and Tourism Operations Management |

**d. FDPs attended: 2021-22**

| Name of Faculty Member | Title   | From Date  | To Date    |
|------------------------|---|------------|------------|
| Kunal                  | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Narender Suhag         | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Nikita Tomar           | FDP on Indian Heritage Management   | 05-07-2021 | 09-07-2021 |
| Nikita Tomar           | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Prachi                 | FDP on Leadership Mastery through Self Management   | 27-12-2021 | 31-12-2021 |
| Prachi                 | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Ritika Singh           | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |

**e. Events organised: 2021-22**

| Title  | From Date  | To Date    |
|--|------------|------------|
| Faculty Development Program on Managing Human Resources-Professional Development Program for teaching staff        | 27-08-2021 | 27-08-2021 |
| Workshop on making Sustainable Hospitality Model:Professional Development Program for teaching staff               | 14-09-2021 | 14-09-2021 |
| Faculty Development Program on International Housekeeping Week:Professional Development Program for teaching staff | 15-09-2021 | 15-09-2021 |
| Workshop on Healthy food for Healthy Living-Professional Development Program for teaching staff                    | 20-10-2021 | 20-10-2021 |
| Workshop on Healthy Salads Preparations-Professional Development Program for teaching staff                        | 21-10-2021 | 21-10-2021 |

**f. Faculty members: Awards & Recognitions:2021-22**

| Name of Faculty Member | Awards/Recognition   |
|------------------------|--|
| Ritika Singh           | Eminent Social Activist Award for protecting and promoting Human Rights, Peace & Harmony on the occasion of 11th International Human Rights Summit & Awards (10-12-2021) |

### Board of Faculty-FHM

|   |                                   |  |                 |
|---|-----------------------------------|--|-----------------|
| 1 | Lt. Gen Rakesh Kumar Anand (Retd) | Dean, FMS  | Chairperson     |
| 2 | Dr. Narender Suhag                | Associate Professor & Head Department of Hotel Management          | Member          |
| 3 | Ms. Ritika Singh                  | Assistant Professor, Director Faculty of Hotel Management          | Member          |
| 4 | Ms. Nikita Tomar                  | Assistant Professor, Department of Hotel Management                | Member          |
| 5 | Mr. Neeraj Chandhok               | CEO, Building Block Customer Services Ltd, South West Delhi, Delhi | External Member |
| 6 | Mrs. Anita Sood                   | Senior Lecturer (Retd.), Delhi Institute of Hotel Management       | External Member |

### Board of Studies-FHM

|   |                        |  |                 |
|---|------------------------|--|-----------------|
| 1 | Dr. Narender Suhag     | Associate Professor, Head Department of Hotel Management,                            | Chairperson     |
| 2 | Dr. Nandini Srivastava | Professor, Department of Hotel Management, Director, CDP                             | Member          |
| 3 | Ms. Prachi Mor         | Assistant Professor, Department of Hotel Management                                  | Member          |
| 4 | Mr. Kunal              | Assistant Professor, Department of Hotel Management                                  | Member          |
| 5 | Ms. Sakshi Chhabra     | Director of Sales, Vivanta by Taj, Surajkund, Faridabad                              | Member          |
| 6 | Ms. Arti Agnihotri     | Learning and Development Manager, South West Asia Head, Intercontinental Hotel Group | External Member |
| 7 | Ms. Ritika Singh       | Assistant Professor, Director, FHM   | Special Invitee |

### 3.8 FACULTY OF BEHAVIORAL & SOCIAL SCIENCES

#### Department:

#### S.No. Name of Department

1. Applied Psychology
2. Economics
3. Social and Political Studies

#### Admission Status:

| Name of the Faculty                       | Programme                                    | Student Intake |    | Total Admissions |    |
|---|--|----------------|----|------------------|----|
|   |  | UG             | PG | UG               | PG |
| Faculty of Behavioral and Social Sciences | BA / B.Sc. Applied Psychology                | 45             |    | 43               |    |
|   | BA (Hons) Economics                          | 05             |    | 04               |    |
|   | Bachelor of Liberal Arts                     | 10             |    | 05               |    |
|   | BA (Hons) Political Science                  | 15             |    | 14               |    |
|   | MA - Applied Psychology                      |                | 20 |                  | 16 |
|   | MA - Economics                               |                | 05 |                  | 04 |
|   | MA – Public Policy and Public Administration |                | 05 |                  | 02 |

#### Faculty of Behavioral & Social Sciences

#### List of Faculty Member Details:

| Name of the Full-time teacher | Designation         | Department                   |
|-------------------------------|---------------------|------------------------------|
| Jayant P V Sundaresan         | Associate Professor | Applied Psychology           |
| Swati                         | Assistant Professor | Applied Psychology           |
| Garima Tuli                   | Assistant Professor | Applied Psychology           |
| Vimanshi Solanki              | Assistant Professor | Applied Psychology           |
| Mitakshara Medhi              | Assistant Professor | Applied Psychology           |
| Puja Chopra                   | Assistant Professor | Applied Psychology           |
| Priyanka Tiwari               | Assistant Professor | Applied Psychology           |
| Khusboo                       | Assistant Professor | Applied Psychology           |
| Azmat Jahan                   | Assistant Professor | Applied Psychology           |
| Anika Magan                   | Assistant Professor | Applied Psychology           |
| Payel Dey Ghosh               | Assistant Professor | Applied Psychology           |
| Divya Dhawan                  | Assistant Professor | Applied Psychology           |
| Preeti Singh                  | Associate Professor | Economics                    |
| Durairaj Kumarasamy           | Associate Professor | Economics                    |
| Priya Vij                     | Associate Professor | Economics                    |
| Sunando Basu                  | Assistant Professor | Economics                    |
| Sunetra Ghatak                | Associate Professor | Economics                    |
| Manisha Nayyar                | Assistant Professor | Economics                    |
| Anandajit Goswami             | Professor           | Social and Political Studies |
| Prashant Chaudhary            | Assistant Professor | Social and Political Studies |
| Bhavna Kataria                | Assistant Professor | Social and Political Studies |
| Ashish Kumar                  | Assistant Professor | Social and Political Studies |
| Sreshtha Chakraborty          | Assistant Professor | Social and Political Studies |
| Anima Puri                    | Assistant Professor | Social and Political Studies |

|                      |                     |                              |
|----------------------|---------------------|------------------------------|
| Upamanyu Basu        | Assistant Professor | Social and Political Studies |
| Dhruv Gautam         | Assistant Professor | Social and Political Studies |
| Sundaresha D S       | Assistant Professor | Social and Political Studies |
| Vishal Sagar         | Assistant Professor | Social and Political Studies |
| Twinkal Dogra        | Assistant Professor | Social and Political Studies |
| Sandipa Bhattacharya | Associate Professor | Social and Political Studies |



## 1. DEPARTMENT OF APPLIED PSYCHOLOGY

### i) Thrust Area

- Counseling
- Research
- Training

### ii) Academic Achievement:

#### a. Student's Publications: 2021-22

| Title of paper  | Name of all the author/s           | Student Authors | Journal / Conference / Book Title  |
|---|------------------------------------|-----------------|--|
| Influence of Demonetisation on various sectors of the economy | Anita Prasad and Anandajit Goswami | Anita Prasad    | International Journal of Strategic Management and Decision Support Systems in Strategic Management |

|  |                               |               |                                       |
|--|-------------------------------|---------------|---------------------------------------|
| To Study The Relationship Between Siblings and its Impact On Our Gratitude Level: A Study With Young Adults. | Sadaa Pandoyi and Dr. Khusboo | Sadaa Pandoyi | Mukt Shabd Journal                    |
| Making Digital Platforms Work for Asia and the Pacific'  | Vanshika Jain                 | Vanshika Jain | Journal of Asian Economic Integration |

**b. Student progression to higher education in percentage during the year:  
2021-22**

| <b>Name of students enrolled for higher education</b> | <b>Graduated from which Programme</b> | <b>Name of institution joined</b>                                 | <b>Admitted to (Name of Programme)</b> |
|---|---------------------------------------|---|--|
| Admya Banwala   | B.A.- Psychology                      | Kurukshetra University  | MA Psychology                          |
| Aashima Kathpalia                                     | B.A.- Psychology                      | Thapra Institute, Punjan  | MA Psychology                          |
| Pratibha Chaudhary                                    | B.A.- Psychology                      | Amity University Noida U.P.                                       | MA Psychology                          |
| Deepanjali Sharma                                     | B.A.- Psychology                      | Amity University Noida U.P.                                       | MA Psychology                          |
| Ankita Dahiya   | B.A.- Psychology                      | Amity University Noida U.P.                                       | MA Psychology                          |
| Sakshi Kaushik  | B.A.- Psychology                      | Amity University Noida U.P.                                       | MA Psychology                          |
| Varsha  | B.A.- Psychology                      | Banaras Hindu University  | MA Psychology                          |
| Vrinda Aggarwal                                       | B.A.- Psychology                      | Central University of Haryana                                     | MA Psychology                          |
| Srija Kaistha   | B.A.- Psychology                      | Amity University Noida U.P.                                       | MA Psychology                          |
| Nitika  | B.A.- Psychology                      | Banaras Hindu University, U.P.                                    | M.A. in Psychology                     |
| Shreshtha Negi  | B.A.- Psychology                      | Hemvati Nandan Bahuguna Garhwal University, Uttarakhand           | Master of Arts (Psychology)            |
| Admya Banwala   | B.A.- Psychology                      | Kurukshetra University  | MA Psychology                          |
| UPASANA   | B.A. Psychology                       | Amity University  | MA Clinical Psychology                 |
| GOPIKA AGGARWAL                                       | BA/BSc Psychology                     | Amity University, Noida, U.P.                                     | Msc clinical psychology                |
| Garima Gupta  | M.A. in Psychology                    | The Shridan college Institute of technology and advanced learning | PHRMC-Human Resources Management Coop  |

**c. FDPs attended by Faculty Members: 2021-22**

| <b>Name of Faculty Member</b> | <b>Title of Event</b>   | <b>Date From</b> | <b>Date To</b> |
|-------------------------------|---|------------------|----------------|
| Anika Magan                   | Two-week Refresher Course on Managing Online Classes and Co-creating MOOCs 8.0                            | 04-09-2021       | 18-09-2021     |
| Anika Magan                   | Online one week Faculty Development Programme on Psychological Skills for Effective Teaching and Learning | 06-01-2022       | 12-01-2022     |
| Anika Magan                   | FDP on Leadership for Academicians Programme (LEAP) recognised by AICTE                                   | 13-06-2022       | 17-06-2022     |
| Azmat Jahan                   | Online one week Faculty Development Programme on Psychological Skills for Effective Teaching and Learning | 06-01-2022       | 12-01-2022     |
| Azmat Jahan                   | FDP on Leadership for Academicians Programme (LEAP) recognised by AICTE                                   | 13-06-2022       | 17-06-2022     |
| Jayant P V Sundaresan         | Online one week Faculty Development Programme on Academic Research Writing                                | 04-06-2022       | 10-06-2022     |
| Khusboo                       | Online one week Faculty Development Programme on Psychological Skills for Effective Teaching and Learning | 06-01-2022       | 12-01-2022     |
| Payel Dey Ghosh               | Online one week Faculty Development Programme on Academic Research Writing                                | 04-06-2022       | 10-06-2022     |
| Payel Dey Ghosh               | FDP on Leadership for Academicians Programme (LEAP) recognised by AICTE                                   | 13-06-2022       | 17-06-2022     |
| Priyanka Tiwari               | Online one week Faculty Development Programme on Psychological Skills for Effective Teaching and Learning | 06-01-2022       | 12-01-2022     |
| Priyanka Tiwari               | FDP on Effective academic Practices   | 10-01-2022       | 14-01-2022     |
| Priyanka Tiwari               | Five days Leadership for Academicians Programme (LEAP) recognised by AICTE                                | 13-06-2022       | 17-06-2022     |
| Swati                         | Online one week Faculty Development Programme on Psychological Skills for Effective Teaching and Learning | 06-01-2022       | 12-01-2022     |

**d. Events organised: 2021-22**

| <b>Title</b>                           | <b>From Date</b> | <b>To Date</b> |
|--|------------------|----------------|
| IBM SPSS basic level training workshop | 12-01-2022       | 13-01-2022     |

**e. Faculty Research Papers: 2021-22**

| Title of paper  | Name of the author/s                       | Name of journal   | Year of publication |
|---|--|---|---------------------|
| A Positive Psychology Approach to Development and Use of Media and Technology   | Swati Saharan                              | Mukt Shabd (print only)   | 2021-22             |
| Dark or Fair? Skin Tone Bias in Personal and Professional Arenas  | Kajal Daga, Anika Magan, Anurakti Mathur   | International Journal of Education and Management Studies           | 2021-22             |
| "WE ARE WHAT WE BROWSE" : EFFECTS OF INSTAGRAM BROWSING ON APPEARANCE INTERNALISATION AND USE OF BEAUTY APPS.               | Ritika Pahwa, Priyanka Tiwari, Anika Magan | Juni Khyat  | 2021-22             |
| A Systematic Review On Psycho Social Challenges Of Parenting In Today's Digital World: A Psychological Perspective          | Sarika Sharma, Priyanka Tiwari             | The Journal of Oriental Research Madras                             | 2021-22             |
| A systematic review on role of hypnotherapeutic intervention in promoting positive psychological health                     | Sarika Sharma, Priyanka Tiwari             | Journal of Health Sciences (JHS)                                    | 2021-22             |
| Effect of Mindfulness on Self-Concept amongst Adolescents in Delhi & NCR  | Sarika Sharma, Priyanka Tiwari             | IOSR Journal Of Humanities And Social Science (IOSR-JHSS)           | 2021-22             |
| Emotional intelligence and the workplace – An increased importance during covid times                                       | Jayant Sundaresan                          | International Research Journal of Management Sociology & Humanities | 2021-22             |
| Psychological well-being and Social Position of women in context to Patriarchal and Matriarchal Societies in Different Eras | Trisha Sharma, Khusboo                     | Juni Khyat  | 2021-22             |
| Raga Todi Intervention on State Anxiety level inFemale Young Adults during COVID-19   | S. Deka, P. Tiwari, K. Mani Tripathi       | Materials Today: Proceedings  | 2021-22             |
| To study the relationship between siblings and its impact on our Gratitude level: A Study with young adults                 | Sadaa Pandoyi, Khusboo                     | Mukt Shabd Journal  | 2021-22             |

**f. Book Chapters: 2021-22**

| Name of the teacher    | Title of the book/chapters published   | Title of the paper | Title of the proceedings of the conference / |
|------------------------|--|--------------------|--|
| Prof . Priyanka Tiwari | Sleep quality, Anxiety and mental well-being of healthcare professionals during COVID-19, COVID 19PANDEMIC: A flamboyant spark against human health and lifestyle, | NA                 | NA   |

**2. DEPARTMENT OF ECONOMICS &  
3. DEPARTMENT OF SOCIAL AND POLITICAL STUDIES**

**i) Thrust Area**

- Research
- Development and Consultancy

**ii) Academic Achievement:**

**a. Student progression to higher education during the year: 2021-22**

| <b>Name of students enrolled for higher education</b> | <b>Graduated from which Programme</b> | <b>Name of institution joined</b>                                     | <b>Admitted to (Name of Programme)</b>      |
|---|---------------------------------------|---|---|
| Muskan Gupta  | B.A. (Hons) - Economics               | The Energy and Resources Institute: TERI , Uttarakhand                | M.sc Economics                              |
| Lakshay Gaur  | B.A. (Hons) - Economics               | Gokhale Institute of Politics & Economics, Delhi                      | M.sc Agribusiness Economics                 |
| Diksha Garg   | B.A. (Hons) - Economics               | IIFT Indian Institute of Foreign Trade, Delhi                         | M.A Economics                               |
| Gautam Sharma   | B.A. (Hons) - Economics               | Manav Rachna International Institute of Research and Studies, Haryana | M.A Economics                               |
| Divneet Kaur  | B.A. (Hons) - Economics               | Manav Rachna International Institute of Research and Studies, Haryana | M.A Economics                               |
| Ishita Handa  | B.A. (Hons) - Economics               | RMIT University, Melbourne  | M.A Economics                               |
| Palak   | B.A. (Hons) - Economics               | Manav Rachna International Institute of Research and Studies, Haryana | M.A Economics                               |
| Dishant Singh   | B.A./B.sc Liberal Arts                | Manav Rachna International Institute of Research and Studies, Haryana | MA Liberal Arts                             |
| Shivank Besoya  | B.A./B.sc Liberal Arts                | Manav Rachna International Institute of Research and Studies, Haryana | MA Liberal Arts                             |
| Sanskar Havelia                                       | B.A./B.sc Liberal Arts                | Manav Rachna International Institute of Research and Studies, Haryana | Masters in Public Policy and Administration |

**b. FDPs attended by Faculty Members: 2021-22**

| <b>Name of Faculty Member</b> | <b>Title of Event</b>   | <b>Date From</b> | <b>Date To</b> |
|-------------------------------|---|------------------|----------------|
| Anima Puri                    | Online two week Interdisciplinary Refresher Course on Advanced Research Methodology | 22-01-2022       | 05-02-2022     |
| Anima Puri                    | FDP on NEP 2020 Implementation in Higher Education Institutes recognised by AICTE   | 09-05-2022       | 13-05-2022     |
| Anima Puri                    | FDP on Leadership for Academicians Programme (LEAP) recognised by AICTE             | 13-06-2022       | 17-06-2022     |
| Bhavna Kataria                | FDP on Ethics and Qualitative Methods in Research, a Multidisciplinary Approach     | 07-03-2022       | 11-03-2022     |
| Durairaj Kumarasamy           | AICTE FDP on Inculcating Universal Human Values in Technical Education              | 27-09-2021       | 01-10-2021     |
| Durairaj Kumarasamy           | FDP on Effective Academic Practices   | 10-01-2022       | 14-01-2022     |
| Manisha Nayyar                | FDP on NEP 2020 Implementation in Higher Education Institutes recognised by AICTE   | 09-05-2022       | 13-05-2022     |
| Manisha Nayyar                | FDP on Inculcating universal values in technical education organised by AICTE       | 14-03-2022       | 18-03-2022     |
| Preeti Singh                  | "Faculty Development Programme on Teaching and Research Methods"                    | 02-08-2021       | 06-08-2021     |
| Preeti Singh                  | FDP on Effective Academic Practices   | 10-01-2022       | 14-01-2022     |
| Priya Vij                     | "Faculty Development Programme on Teaching and Research Methods"                    | 02-08-2021       | 06-08-2021     |
| Puja Chopra                   | AICTE ATAL FDP on Developing Real Life Case Studies                                 | 20-12-2021       | 24-12-2021     |
| Sunetra Ghatak                | FDP on Effective Academic Practices   | 10-01-2022       | 14-01-2022     |
| Sunetra Ghatak                | FDP on Effective Teaching Learning using Social Media recognised by AICTE           | 06-06-2022       | 10-06-2022     |
| Sunetra Ghatak                | FDP on Leadership for Academicians Programme(LEAP) Recognised by AICTE              | 13-06-2022       | 17-06-2022     |
| Upamanyu Basu                 | FDP on Leadership for Academicians Programme (LEAP) recognised by AICTE             | 13-06-2022       | 17-06-2022     |
| Vishal Sagar                  | FDP on Leadership for Academicians Programme (LEAP) recognised by AICTE             | 13-06-2022       | 17-06-2022     |

**c. Faculty Research Papers: 2021-22**

| Title of paper   | Name of the author/s   | Name of journal          | Year of publication |
|--|------------------------|--------------------------|---------------------|
| Conflicted transitions: Exploring the actors, tactics, and outcomes of social opposition against energy infrastructure | Prof Anandajit Goswami | elsevier, Web of Science | 2021-22             |

**d. Book Chapters: 2021-22**

| Name of the teacher    | Title of the book/chapters published  | Title of the paper | Title of the proceedings of the conference / |
|------------------------|---|--------------------|--|
| Aarti Suryavanshi      | Managerial Economics and Financial Analysis   | NA                 | NA   |
| Manisha Nayyar         | Tiding over the Pandemic Wave and the Growth Strategy, Real Life Management Case Studies-Developed In Factual Conversation with Industry Leaders          | NA                 | NA   |
| Puja Chopra            | Rural Industrialisation Challenges and Opportunities  | NA                 | NA   |
| Prof Anandajit Goswami | Sustainability Science for Social, Economic, and Environmental Development  | NA                 | NA   |
| Aarti Suryavanshi      | Managerial Economics and Financial Analysis   | NA                 | NA   |
| Manisha Nayyar         | Tiding over the Pandemic Wave and the Growth Strategy, Real Life Management Case Studies-Developed In Factual Conversation with Industry Leaders          | NA                 | NA   |
| Puja Chopra            | Rural Industrialisation Challenges and Opportunities  | NA                 | NA   |
| Puja Chopra            | Bhartiya Valves Pvt Ltd.- A Case of Entrepreneurial Excellence, Real Life Management Case Studies-Developed In Factual Conversation with Industry Leaders | NA                 | NA   |
| Prof Anandajit Goswami | Sustainability Science for Social, Economic, and Environmental Development  | NA                 | NA   |

### Board of Faculty-FBSS

| <b>Board of Faculty-Faculty of Behavioral and Social Sciences</b> |                       |   |                 |
|---|-----------------------|---|-----------------|
| 1   | Prof. Naresh Grover   | Dean FBSS & PVC   | Chairperson     |
| 2   | Dr Priyanka Tiwari    | HoD, DoAP   | Member          |
| 3   | Dr Sunetra Ghatak     | Associate Professor, DoE  | Member          |
| 4   | Dr Jayant Sundareshan | Associate Professor, DoAP   | Member          |
| 5   | Dr Bhavna Kataria     | Assistant Professor, DOSPS  | Member          |
| 6   | Dr Anika Magan        | Assistant Professor, DOAP   | Member          |
| 7   | Dr. Avinash Kumar     | Associate Professor<br>Dept. of Psychology<br>Delhi University, New Delhi | External Member |
| 8   | Dr. Amulya Gurtu      | Head of External Relations<br>University, Wisconsin, Green Bay            | External Member |

### Board of Studies – Applied Psychology

|   |                        |                                 |                 |
|---|------------------------|---------------------------------|-----------------|
| 1 | Dr Priyanka Tiwari     | Associate Professor<br>and Head | Chairperson     |
| 2 | Prof Anandajit Goswami | Director, FBSS                  | Member          |
| 3 | Mr Jayant Sundareshan  | Associate Professor             | Member          |
| 4 | Dr Swati Sharan        | Assistant Professor             | Member          |
| 5 | Dr Anika Magan         | Assistant Professor             | Member          |
| 6 | Dr Abha Singh          | Director                        | External Member |
| 7 | Prof Navin Kumar       | Associate Professor             | External Member |

### Board of Studies - Economics

|   |                        |  |                 |
|---|------------------------|--|-----------------|
| 1 | Dr. Anandajit Goswami  | Associate Professor & HoD, Economics                       | Chairman        |
| 2 | Dr. Chavi Bhargava     | Professor, Economics                                       | Member          |
| 3 | Dr. Durairaj Kumarsamy | Associate Professor, Economics                             | Member          |
| 4 | Dr. Preeti Singh       | Assistant Professor, Economics                             | Member          |
| 5 | Dr. Priya Vij          | Assistant Professor, Economics                             | Member          |
| 6 | Dr. Swadhin K Mondal   | Dept. of Economics & Finance,<br>University of Nizwa, Oman | External Member |
| 7 | Dr. Sandeep Sharma     | Health Economist, NHSRC,<br>NHM (MoH & FW) New Delhi       | External Member |

### Board of Studies - Social and Political Studies

|   |                              |   |                 |
|---|------------------------------|---|-----------------|
| 1 | Dr. Anandajit Goswami        | Associate Professor & Head<br>Dept. of Social and Political Studies | Chairman        |
| 2 | Dr. Chavi Bhargava<br>Sharma | Professor, Dept. Psychology<br>(Dean FBSS)                          | Member          |
| 3 | Dr. Durairaj Kumarsamy       | Associate Prof. & Head<br>Dept. of Psychology                       | Member          |
| 4 | Dr. Prashant Chaudhary       | Assistant Professor<br>Dept. of Social and Political Studies        | Member          |
| 5 | Dr. Bhavna Kataria           | Assistant Professor<br>Dept. of Social and Political Studies        | Member          |
| 6 | Dr. Nitya Nanda              | Director<br>Council for Social Dept., New Delhi                     | External Member |
| 7 | Dr. Saransh Sugandh          | Film Maker, Director<br>Vaartha Communication                       | External Member |

### 3.9 FACULTY OF ARCHITECTURE & DESIGN

#### Department:

- Architecture & Design

#### Admission Status:

| Name of the Faculty              | Programme              | Student Intake |    | Total Admissions |    |
|----------------------------------|------------------------|----------------|----|------------------|----|
|                                  |                        | UG             | PG | UG               | PG |
| Faculty of Architecture & Design | B. Arch                | 30             |    | 06               |    |
|                                  | B. Design              | 30             |    | 08               |    |
|                                  | B.Sc.- Interior Design | 30             |    | 27               |    |

#### FACULTY OF ARCHITECTURE & DESIGN

#### Faculty Member Details:

| Name of the Full-time teacher | Designation         | Department            |
|-------------------------------|---------------------|-----------------------|
| Sanjeev Gupta                 | Professor           | Architecture & Design |
| Sanjay Surya                  | Professor           | Architecture & Design |
| Arati Prakash Khare           | Professor           | Architecture & Design |
| Dinesh Bhardwaj               | Professor           | Architecture & Design |
| Saket Jain                    | Associate Professor | Architecture & Design |
| Ishita Jindal                 | Assistant Professor | Architecture & Design |
| Shabeena                      | Assistant Professor | Architecture & Design |
| Dharmendra Bhogal             | Assistant Professor | Architecture & Design |
| Anika Singh                   | Assistant Professor | Architecture & Design |
| Hitesh Kumar                  | Assistant Professor | Architecture & Design |
| Smriti Saigal                 | Assistant Professor | Architecture & Design |
| Nida Hassan                   | Assistant Professor | Architecture & Design |
| Deepesh Jai Singh             | Assistant Professor | Architecture & Design |
| Pradeep Thapliyal             | Assistant Professor | Architecture & Design |
| Sonam Aggarwal                | Assistant Professor | Architecture & Design |



**Departments at a Glance:**

**1. DEPARTMENT OF ARCHITECTURE**

**i) Thrust Area**

- Architectural History and Theory
- Seismic considerations for Buildings
- Hospital Architecture
- Sustainable Design and Urbanism
- Energy Efficient Architecture
- Design of Learning Environments
- Architectural Education
- Vernacular Studies

**2. DEPARTMENT OF INTERIOR DESIGN**

**i) Thrust Area**

- Socially relevant Innovation
- Eco-friendly Lighting Solutions
- Sustainable Design

**ii) Academic Achievements**

**a. Student progression to higher education during the year: 2021-22**

| Name of students enrolled for higher education | Graduated from which Programme     | Name of institution joined                 | Admitted to (Name of Programme) |
|--|------------------------------------|--|---------------------------------|
| Prachi Aagarwal                                | B.Sc.- Interior design             | Delhi College of Technology and Management | MBA                             |
| Sajal Verma                                    | Bachelor of Architecture (B.Arch.) | Sushant University, Haryana                | M.Arch                          |

**b. Students benefited by career counseling and guidance for competitive Examinations: 2021-22**

| Activity Description                                    | No. of Participants |
|---|---------------------|
| Role of good design changing lives and career in design | 52                  |

**c. FDPs attended by Faculty Members: 2021-22**

| Name of Faculty member | Title of Event  | Date From  | Date To    |
|------------------------|---|------------|------------|
| Anika Singh            | AICTE recognised STC on Climate change, Disaster Management and Sustainable Development through ICT | 25-04-2022 | 29-04-2022 |
| Arati Prakash Khare    | AICTE recognised STC on Climate change, Disaster Management and Sustainable Development through ICT | 25-04-2022 | 29-04-2022 |
| Arati Prakash Khare    | FDP on Project Based Learning International Perspective   | 04-04-2022 | 09-04-2022 |
| Arati Prakash Khare    | FDP on Graphics And Animation for Quality Instructional Material Development recognised by AICTE    | 20-06-2022 | 24-06-2022 |
| Ashish Anand           | AICTE recognised STC on Climate change, Disaster Management and Sustainable Development through ICT | 25-04-2022 | 29-04-2022 |
| Jyoti Chhabra          | FDP on Research Tools & Techniques in Architecture and Planning                                     | 24-03-2022 | 28-03-2022 |
| Jyoti Chhabra          | AICTE recognised STC on Climate change, Disaster Management and Sustainable Development through ICT | 25-04-2022 | 29-04-2022 |
| Khushboo Zehra Naqvi   | AICTE recognised STC on Climate change, Disaster Management and Sustainable Development through ICT | 25-04-2022 | 29-04-2022 |
| Khushboo Zehra Naqvi   | FDP on Project Based Learning International Perspective   | 04-04-2022 | 09-04-2022 |

|                |   |            |            |
|----------------|---|------------|------------|
| Pallavi Sharma | AICTE recognised STC on Climate change, Disaster Management and Sustainable Development through ICT | 25-04-2022 | 29-04-2022 |
| Shruti Jain    | AICTE recognised STC on Climate change, Disaster Management and Sustainable Development through ICT | 25-04-2022 | 29-04-2022 |
| Shruti Jain    | FDP on Graphics And Animation for Quality Instructional Material Development recognised by AICTE    | 20-06-2022 | 24-06-2022 |
| Simran Vats    | AICTE recognised STC on Climate change, Disaster Management and Sustainable Development through ICT | 25-04-2022 | 29-04-2022 |
| Simran Vats    | FDP on Leadership for Academicians Programme (LEAP) recognised by AICTE                             | 13-06-2022 | 17-06-2022 |
| Smriti Saigal  | Life Skills for Blissful Life   | 13-12-2021 | 17-12-2021 |
| Smriti Saigal  | AICTE recognised STC on Climate change, Disaster Management and Sustainable Development through ICT | 25-04-2022 | 29-04-2022 |

#### d. Events organised: 2021-22

| Title  | From Date  | To Date    |
|--|------------|------------|
| STC on Graphics and Animation for Quality Instructional Material Development in collaboration with NITTTR Chandigarh | 20-06-2022 | 24-06-2022 |

#### Board of Faculty

|   |                         |  |                 |
|---|-------------------------|--|-----------------|
| 1 | Col. Sanjeev Gupta      | Professor & Dean                                       | Chairperson     |
| 2 | MS. Shruti Jain         | Associate Professor & HOD of FAD                       | Member          |
| 3 | Dr. Arati Prakash Khare | Professor- Design deptt. of FAD                        | Member          |
| 4 | Ms. Smriti Saigal       | Assistant Professor- deptt. of FAD                     | Member          |
| 5 | Mr. Deesh Jai Singh     | Assistant Professor- deptt. of FAD                     | Member          |
| 6 | Mr. Hitesh Kumar        | Assistant Professor- deptt. of FAD                     | Member          |
|   | Dr. Neerja Lugani Sethi | Professor University school of Planning & Architecture | External Member |

#### Board of Studies

|   |                         |  |                 |
|---|-------------------------|--|-----------------|
| 1 | MS. Shruti Jain         | Associate Professor & HOD of FAD                       | Chairman        |
| 2 | Dr. Arati Prakash Khare | Professor- Design deptt. of FAD                        | Member          |
| 3 | Ms. Smriti Saigal       | Assistant Professor- deptt. of FAD                     | Member          |
| 4 | Ms. Pallavi Sharma      | Assistant Professor- deptt. of FAD                     | Member          |
| 6 | Dr. Neeraj Lugani Sethi | Professor University school of Planning & Architecture | External Member |
| 7 | Prof. Manoj Mathur      | Professor school of Planning & Architecture            | External Member |

### 3.10 FACULTY OF DENTAL SCIENCE (FDS)

#### DEPARTMENT OF DENTAL SCIENCE

##### Admission Status:

| Name of the Faculty | Programme | Student Intake | Total Admissions |
|---------------------|-----------|----------------|------------------|
|                     |           | UG/PG          | UG/PG            |
| FDS                 | BDS       | 100            | 60               |
|                     | MDS       | 15             | 15               |

##### Faculty Member Details:

#### FACULTY OF DENTAL SCIENCE (FDS)

| Name of the Full-time teacher | Designation         | Department             |
|-------------------------------|---------------------|------------------------|
| Arundeeep Singh               | Professor           | Conservative Dentistry |
| Dax Abraham                   | Professor           | Conservative Dentistry |
| Swati Sanghi                  | Professor           | Conservative Dentistry |
| Ravjot Ahuja                  | Reader              | Conservative Dentistry |
| Alpa Gupta                    | Reader              | Conservative Dentistry |
| Aishvarya Kaushik             | Reader              | Conservative Dentistry |
| Divyam Girdhar                | Reader              | Conservative Dentistry |
| Sucheta Jala                  | Reader              | Conservative Dentistry |
| Parul Chauhan                 | Assistant Professor | Conservative Dentistry |
| Garima                        | Assistant Professor | Conservative Dentistry |
| Varsha Jain                   | Assistant Professor | Conservative Dentistry |
| Tushar Kohli                  | Assistant Professor | Conservative Dentistry |
| Vikas Swami                   | Assistant Professor | Conservative Dentistry |
| Suvidh Virmani                | Assistant Professor | Conservative Dentistry |
| Jaiprin Kaur Sethi            | Assistant Professor | Conservative Dentistry |
| Nishant Chauhan               | Assistant Professor | Conservative Dentistry |
| Seema Hasna Bukhari           | Assistant Professor | Conservative Dentistry |
| Pankaj Dhawan                 | Professor           | Prosthodontics         |
| Piyush Tandan                 | Professor           | Prosthodontics         |
| Suruchi Pujara                | Reader              | Prosthodontics         |
| Shivam Singh Tomar            | Reader              | Prosthodontics         |
| Divyesh Mehta                 | Reader              | Prosthodontics         |
| Harsimran Kaur                | Reader              | Prosthodontics         |
| Mansi Nautiyal                | Assistant Professor | Prosthodontics         |
| Shrey Kundra                  | Assistant Professor | Prosthodontics         |
| Ojasvi Nijhawan               | Assistant Professor | Prosthodontics         |
| Reena Roy Rassawet            | Assistant Professor | Prosthodontics         |
| Sushen Sharma                 | Assistant Professor | Prosthodontics         |
| Surbhi Malhotra               | Assistant Professor | Prosthodontics         |
| Vidushi Saxena                | Assistant Professor | Prosthodontics         |

|                       |                     |   |
|-----------------------|---------------------|---|
| Uswah Khan            | Assistant Professor | Prosthodontics  |
| Tannu Goyal           | Assistant Professor | Prosthodontics  |
| Pankaj Dhawan         | Professor           | Prosthodontics  |
| Puneet Batra          | Professor           | Orthodontics  |
| Nitin Arora           | Professor           | Orthodontics  |
| Ashish Kumar Singh    | Professor           | Orthodontics  |
| Jitesh Wadhwa         | Professor           | Orthodontics  |
| Abhita Malhotra       | Reader              | Orthodontics  |
| Aditya Talwar         | Assistant Professor | Orthodontics  |
| Yatin Bajaj           | Assistant Professor | Orthodontics  |
| Swati Kharab          | Assistant Professor | Orthodontics  |
| Akanksha Shukla       | Assistant Professor | Orthodontics  |
| Prashant Sharma       | Assistant Professor | Orthodontics  |
| Nikita Mohelay        | Assistant Professor | Orthodontics  |
| Gaurav Saluja         | Assistant Professor | Orthodontics  |
| Shveta Sood           | Professor           | Pediatric and Preventive Dentistry<br>(Pedodontics)                     |
| Naresh Sharma         | Professor           | Pediatric and Preventive Dentistry<br>(Pedodontics)                     |
| Akshara               | Reader              | Pediatric and Preventive Dentistry<br>(Pedodontics)                     |
| Puneet Mohan Khari    | Assistant Professor | Pediatric and Preventive Dentistry<br>(Pedodontics)                     |
| Vishal Jain           | Assistant Professor | Pediatric and Preventive Dentistry<br>(Pedodontics)                     |
| Karishma Chhabra      | Assistant Professor | Pediatric and Preventive Dentistry<br>(Pedodontics)                     |
| Madhulika Srivastava  | Assistant Professor | Pediatric and Preventive Dentistry<br>(Pedodontics)                     |
| Pooja Palwankar       | Professor           | Periodontics (Periodontology)   |
| Ruchi Pandey          | Professor           | Periodontics (Periodontology)   |
| Nipun Dhalla          | Reader              | Periodontics (Periodontology)   |
| Lipika Gopal          | Reader              | Periodontics (Periodontology)   |
| Shetal Gupta          | Assistant Professor | Periodontics (Periodontology)   |
| Karunik Gupta         | Assistant Professor | Periodontics (Periodontology)   |
| Shruti Saini          | Assistant Professor | Periodontics (Periodontology)   |
| Shivani Aggarwal      | Professor           | Dental Sciences (Oral & Maxillofacial<br>Pathology & Oral Microbiology) |
| Manish Bhargava       | Professor           | Dental Sciences (Oral & Maxillofacial<br>Pathology & Oral Microbiology) |
| Anchal Varshney       | Assistant Professor | Dental Sciences (Oral & Maxillofacial<br>Pathology & Oral Microbiology) |
| Hitesh                | Assistant Professor | Dental Sciences (Oral & Maxillofacial<br>Pathology & Oral Microbiology) |
| Ashim Aggarwal        | Professor           | Dental Sciences (Oral & Maxillofacial<br>Surgery)                       |
| Kumar Rakshak Anand   | Professor           | Dental Sciences (Oral & Maxillofacial<br>Surgery)                       |
| Amit Mohan            | Professor           | Dental Sciences (Oral & Maxillofacial<br>Surgery)                       |
| Sandeep Subhash Arora | Reader              | Dental Sciences (Oral & Maxillofacial<br>Surgery)                       |

|                      |                     |  |
|----------------------|---------------------|--|
| Abhinav Kumar Sharma | Assistant Professor | Dental Sciences (Oral & Maxillofacial Surgery) |
| Sumit Bhateja        | Professor           | Dental Sciences (Oral Medicine & Radiology)    |
| Tamanna Soni         | Reader              | Dental Sciences (Oral Medicine & Radiology)    |
| Sheena               | Assistant Professor | Dental Sciences (Oral Medicine & Radiology)    |
| Meena Jain           | Professor           | Dental Sciences (Public Health Dentistry)      |
| Nisha Yadav          | Reader              | Dental Sciences (Public Health Dentistry)      |
| Akanksha Monga       | Assistant Professor | Dental Sciences (Public Health Dentistry)      |
| Roomani Srivastava   | Assistant Professor | Dental Sciences (Public Health Dentistry)      |
| Anupama V. Betigeri  | Professor           | Dental Sciences (Physiology)                   |
| Shakila Mahesh       | Reader              | Dental Sciences (Microbiology)                 |
| Anjana Goyal         | Professor           | Dental Sciences (Biochemistry)                 |
| Savita Bansal        | Professor           | Dental Sciences (General Pathology)            |
| Reena Doomra         | Professor           | Dental Sciences (Pharmacology)                 |
| Alpana Goel Kesar    | Reader              | Dental Sciences (Human Anatomy)                |
| M.Y. Shareef         | Professor           | Dental Sciences (General Surgery)              |
| Pratul Priyadarshini | Reader              | Dental Sciences (General Medicine)             |
| Manju Singh          | Reader              | Dental Sciences (Anesthesia)                   |



## i) Academic Achievements

### a. Student's Publications: 2021-22

| Title of paper  | Name of all the author/s   | Student Authors                      | Journal/Conference/Book Title                              |
|---|--|--------------------------------------|--|
| Focal Fibrous Hyperplasia- A case report.   | Dr. Deepshikha Tyagi, Dr. Pooja Palwankar  | Dr. Deepshikha Tyagi                 | International Journal of Research and Reports in Dentistry |
| Association of Obesity and Resistin Levels in Periodontal Diseases  | Dr. Pooja Palwankar, Dr. Junam Nishi Barman, Dr. Nipun Dhalla  | Dr. Junam Nishi Barman               | International Journal of Research and Reports in Dentistry |
| To Determine Association between Socioeconomic status, Tobacco use and Periodontal Health- A Systematic Review  | Dr. Pooja Palwankar, Dr. Tanya Anand, Dr. Ruchi Pandey   | Dr. Tanya Anand                      | International Journal of Special Education                 |
| Salivary and Gingival crevicular fluid: Psychological stress biomarkers in Periodontal disease  | Dr. Pooja Palwankar, Dr. Deepshikha Tyagi, Dr. Lipika Gopal  | Dr. Deepshikha Tyagi                 | European Journal of Molecular & Clinical Medicine          |
| Assessment of patient's satisfaction with fixed partial denture and its correlation with patient's evaluation of clinicians   | Dr. Uswah Khan, Dr. Pankaj Dhawan, Dr. Piyush Tandan, Dr. Meena Jain   | Dr. Uswah Khan                       | Annals of Romanian Society for Cell Biology                |
| Prosthetic Status and Needs among Head and Neck Cancer Irradiated Patients Suffering from Xerostomia in Delhi, India  | Dr. Sakshi Gupta, Dr. Pankaj Dhawan, Dr. Piyush Tandan, Dr. Meena Jain   | Dr. Sakshi Gupta                     | Indian Journal of Forensic Medicine & Toxicology           |
| Anesthetic efficacy of primary and supplemental buccal/lingual infiltration in patients with irreversible pulpitis in human mandibular molars: a systematic review and meta- analysis | Dr. Alpa Gupta, Dr. Aarushi Sahai, Dr. Vivek Aggarwal, Dr. Namrata Mehta, Dr. Dax Abraham, Dr. Sucheta Jala, Dr. Arundeeep Singh                     | Dr. Aarushi Sahai, Dr. Namrata Mehta | Journal of Dental Anesthesia and Pain Medicine             |
| Comparison of healing assessments of periapical endodontic surgery using conventional radiography and cone-beam computed tomography: A systematic review                              | Dr. Garima Sharma, Dr. Dax Abraham, Dr. Alpa Gupta, Dr. Vivek Aggarwal, Dr. Namrata Mehta, Dr. Sucheta Jala, Dr. Parul Chauhan, Dr. Arundeeep Singh  | Dr. Garima Sharma, Dr. Namrata Mehta | Imaging Science in Dentistry                               |
| Comparative evaluation of the force required to fracture coronal segments reattached using different methods  | Dr. Deepti Sreen, Dr. Dax Abraham, Dr. Alpa Gupta, Dr. Arundeeep Singh, Dr. Vivek Aggarwal, Dr. Nishant Chauhan, Dr. Sucheta Jala, Dr. Namrata Mehta | Dr. Deepti Sreen, Dr. Namrata Mehta  | Dental Traumatology  |

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| Anesthetic efficacy of supplemental intraligamentary injection in human mandibular teeth with irreversible pulpitis: a systematic review and meta analysis   | Dr. Alpa Gupta, Dr. Jitesh Wadhwa, Dr. Vivek Aggarwal, Dr. Namrata Mehta, Dr. Da Abraham, Dr. Kritika Aneja, Dr. Arundeeep Singh   | Dr. Kritika Aneja  | Journal of Dental Anesthesia and Pain Medicine        |
| Correlation of endodontic infection and cytokine expression in patients with systemic diseases : a Systematic review of clinical studies   | Dr. Dax Abraham, Dr. Arudneep Singh, Dr. Ansy Hanna Kurian, Dr. Alpa Gupta, Dr. Kritika Aneja, Dr. Simar sethi   | Dr. Ansy Hanna Kurian                                    | Endodontology   |
| Quantitative evaluation of apically extruded debris during root canal preparation with reciprocating single file system, continuous rotary multiple file system and manual technique: an in vitro study.       | Dr. Pratima Mohana, Dr. Dax Abraham, Dr. Alka Gurawa, Dr. Alpa Gupta, Dr. parul Chauhan, Dr. Arundeeep Singh, Dr. Sucheta  | Dr. Alka Gurawa  | Endodontology   |
| Influence of vehicle for calcium hydroxide on postoperative pain: a scoping review   | Dr. Kritika Aneja, Dr. Alpa Gupta, Dr. Dax Abraham, dr. Vivek Aggarwal, Dr. Simar Sethi, Dr. Parul Chauhan, Dr. Arundeeep Singh, Dr. Ansy Hanna Kurian, Dr. Sucheta Jala | Dr. Kritika Aneja, Dr. Sima Sethi, Dr. Ansy Hanna Kurian | Journal of Dental Anesthesia and Pain Medicine        |
| Comparative evaluation of clinical efficiency and patient acceptability toward the use of circumferential matrix and sectional matrix for restoration of Class II cavities in Primary Molars: An in vivo study | Dr. Hind P Bhatia, Dr. Shveta Sood, Dr. Naresh Sharma, Dr. Varshini Rajagopal  | Dr. Varshini Rajagopal                                   | International Journal of Clinical Pediatric Dentistry |
| Effectiveness of virtual reality glasses digital screens and verbal command as a method to distract young patients during administration of local anesthesia   | Dr. Yogita Sharma, Dr. Hind Pal Bhatia, Dr. Naresh Sharma, Dr. Akshara Singh   | Dr. Yogita Sharma  | International Journal of Clinical Pediatric Dentistry |
| Dental Management of Pediatric Patients with Bronchial Asthma  | Dr. Karishma Chhabra, Dr. Shveta Sood, Dr. Naresh Sharma, Dr. Akshara Singh, Dr. Sankalp Nigam   | Dr. Sankalp Nigam  | International Journal of Clinical Pediatric Dentistry |

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| Attitude and Practices of Healthcare professionals and their family members toward Health Care Professionals dealing with Covid-19 patients In New Delhi, India | Dr. Shruti Chopra, Dr. Sabreen Gujral, Dr. Shveta Sood, Dr. Naresh Sharma, Dr. Akshara Singh  | Dr. Shruti Chopra, Dr. Sabreen Gujral   | Journal of Evolution of Medical and Dental Sciences   |
| Aerodontalgia among Airline Pilots of India: A Cross sectional Survey   | Dr. Sabreen Gujral, Dr. Shruti Chopra, Dr. Shveta Sood, Dr. Naresh Sharma, Dr. Akshara Singh  | Dr. Shruti Chopra, Dr. Sabreen Gujral   | Journal of Clinical and Diagnostic Research           |
| Effects of Covid-19 on Dentistry  | Yashika Pal, Urvashi Saini, Dr. Lipika Gopal  | Yashika Pal, Urvashi Saini  | Turkish Journal of Physiotherapy and Rehabilitation   |
| Knowledge, attitude and practices of undergraduate students towards sleep habits  | Dr. Anupama Vithalkumar Betigiri, Jasneek Singh, Shreya Bhatia, Ishika Chanra, Ishita Yadav, Shivya Narula                            | Jasneek Singh, Shreya Bhatia, Ishika Chanra, Ishita Yadav, Shivya Narula                              | Indian Journal of Health and Well being               |
| Knowledge and Perception about Patient Empowerment and Telemedicine   | Dr. Anupama Vithalkumar Betigiri, Kaja Sai Ragesvari, Manya Jain, Jigyasa Gupta, Juhi Singhia, Kadambari Harit                        | Kaja Sai Ragesvari, Manya Jain, Jigyasa Gupta, Juhi Singhia, Kadambari Harit                          | Indian Journal of Health and Well being               |
| Knowledge, Attitude and Practice about Premenstrual Syndrome amongst the Females of Manav Rachna University   | Dr. Anjana Goyal, Anushka Choudhary, Anila Maria Varghese, Nandini Mathur, Vanshika Batra, Prakriti Harsh, Antarini Roy               | Anushka Choudhary, Anila Maria Varghese, Nandini Mathur, Vanshika Batra, Prakriti Harsh, Antarini Roy | Indian Journal of Health and Well being               |
| Analyzing Cognition for COVID-19 Vaccine: A Survey on Undergraduate students of Manav Rachna University   | Dr. Anjana Goyal, Dr. Reena Doomra, Anushka Choudhary, Anila Maria Varghese, Neha Atkaan, Chirag Kalha, Arjun Singh Verma, Ishu Gupta | Anushka Choudhary, Anila Maria Varghese, Neha Atkaan, Chirag Kalha, Arjun Singh Verma, Ishu Gupta     | IAHRW International Journal of Social Sciences Review |
| Attitude, Social Presence, and Satisfaction of Dental Students towards E-Learning- A Cross-Sectional Study from Haryana, India                                  | Shakila Mahesh, Dr. Savita Bansal, Kruthiventi Hemalata, Anila Maria Varghese   | Kruthiventi Hemalata, Anila Maria Varghese  | Journal of Evolution of Medical and Dental Sciences   |

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| Knowledge , Attitude and Perceptions towards COVID-19 Vaccines: A cross sectional study in Delhi NCR   | Shakila Mahesh, Neeru Rani, Anushka Rajesh Choudhary, Ishika Chandra, Ankit Kumar                        | Neeru Rani, Anushka Rajesh Choudhary, Ishika Chandra, Ankit Kumar  | Indian Journal of Health and Well being                |
| Knowledge and Perception Related to the New SARS-CoV-2 Variants amongst the General Population and the Healthcare Workers in Delhi NCR: A Survey-based Study | Shakila Mahesh, Kadambari Harit, Kaja Sai Rajesvari, Manya Jain, Jigyasa Gupta, Juhi Singhla             | Kadambari Harit, Kaja Sai Rajesvari, Manya Jain, Jigyasa Gupta, Juhi Singhla                             | Indian Journal of Health and Well being                |
| The Untold Saga of Chromotherapy in Dentistry  | DSV Sindhuja, Dr. Sumit Bhateja, Dr. Meenakshi Sharma, Geetika S. Arora                                  | DSV Sindhuja, Geetika S. Arora   | Journal of Family Medicine and Primary Care            |
| Nutritional aspects of oral disorders- A review  | Aastha Kaushik, Riya Tripathi, Shreya Asija, Ritika Tanwar, Abid Meraj, Dr. Sumit Bhateja                | Aastha Kaushik, Riya Tripathi, Shreya Asija, Ritika Tanwar, Abid Meraj,                                  | IP Journal of Nutrition, Metabolism and Health Science |
| The Unexplored Diagnostic Aid in the Indian Armed Forces- Forensic Odontology  | Sakshi, Dr. Ashim Aggarwal   | Sakshi   | Academic Journal of Anthropological Studies            |
| Time Dependent Oral Microflora Changes in Removable Partial Denture Wearers  | Dr. Tanaya, Dr, Pankaj Dhawan, Dr. Piyush Tandan, Dr. Pankaj Madhukar, Shakila Mahesh, Dr. Meena Jain    | Dr. Tanaya   | Indian Journal of Public Health Research & Development |
| Prosthetic rehabilitation of Completely Edentulous Patients with Resorbed Mandibular Ridge: Case Series  | Dr. Sakshi Gupta, Dr. Pankaj Dhawan, Dr. Shivam Singh Tomar, Dr. Divyesh Mehta                           | Dr. Sakshi Gupta   | Journal of Prosthetic and Implant Dentistry            |
| A Review on the Potential role of Lasers in Oral Medicine  | Dr. Poonam Negi, Dr. Pushpa Kumari, Sahil Negi, Nitish Kumar Mahto, Dr. Sumit Bhateja                    | Dr. Poonam Negi, Dr. Pushpa Kumari, Sahil Negi, Nitish Kumar Mahto                                       | IOSR Journal of Dental and Medical sciences            |
| Oral and perioral piercings: Awareness and knowledge among undergraduate dental students in a private dental college, Haryana                                | Reshma RK, Dr. Sumit Bhateja, Dr. Tamanna Soni, Dr. Geetika Arora, Dr. Sheena T Arora, Dr. Vinita Charan | Reshma RK, Dr. Sumit Bhateja, Dr. Tamanna Soni, Dr. Geetika Arora, Dr. Sheena T Arora, Dr. Vinita Charan | International Dental Journal of Student's Research     |

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| Menstrual Hygiene: Practices and Challenges faced by female workers of Manav Rachna University                         | Dr. Anjana Goyal, Jigyasa Gupta, Anushka Choudhary, Kadambari Harit, K.S. Ragesvari, Ishu Gupta | Jigyasa Gupta, Anushka Choudhary, Kadambari Harit, K.S. Ragesvari, Ishu Gupta | Indian Journal of Positive Psychology                                     |
| A Survey on Awareness towards the new Covid-19 Variants  | Dr. Anjana Goyal, Dr. Reena Doomra, Natalia Thakran, Megha Monga, Rohit Raj, Saiyam Gupta       | Natalia Thakran, Megha Monga, Rohit Raj, Saiyam Gupta                         | Indian Journal of Health and Well being                                   |
| Awareness, attitude, and practice about basic life support among dental students                                       | Dr. Savita Bansal, Jigyasa Gupta, Juhi Singhla, Kadambari Harit, KajasaiRagesvari, Manya Jain   | Jigyasa Gupta, Juhi Singhla, Kadambari Harit, KajasaiRagesvari, Manya Jain    | Journal of the Scientific society   |
| The impact of SARS-CoV-2 on the sudden onset of Mucormycosis in the Indian subcontinent-A Review                       | Shakila Mahesh, Samridhi Srivastava, Sakshi, Riya Tripathi                                      | Samridhi Srivastava, Sakshi, Riya Tripathi                                    | Journal of Family Medicine and Primary Care                               |
| Does the current generation's smile esthetics hinge on social media and cosmetic makeover? A questionnaire-based study | Dr. Rohit Karkun, Dr. Puneet Batra  | Dr. Rohit Karkun  | Journal of Oral Medicine, Oral Surgery, Oral Pathology and Oral Radiology |
| Mandibular Muscles and how they influence Orthodontic Mechanics  | Rohit Karkun, Aditya Talwar, Puneet Batra   | Rohit Karkun  | Dental Practice   |
| Focal Fibrous Hyperplasia- A case report   | Dr. Deepshikha Tyagi, Dr. Pooja Palwankar   | Dr. Deepshikha Tyagi  | International Journal of Research and Reports in Dentistry                |

**b. Student progression to higher education during the year:2021-22**

| <b>Name of students enrolled for higher education</b> | <b>Graduated from which programme</b> | <b>Name of institution joined</b>   | <b>Admitted to (Name of Programme)</b> |
|---|---------------------------------------|---|--|
| D S V Sindhuja  | Bachelor of Dental Sciences           | Sudha Rustagi Dental College, Haryana   | MDS (Endo)                             |
| Ekta Vats   | Bachelor of Dental Sciences           | Institute of Clinical Research India (In Collaboration With Sushant University) | MBA                                    |

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|---------------|-----------------------------|--------------------------------------|-------------|
| Nishtha Yadav | Bachelor of Dental Sciences | Sharda Dental College- Greater Noida | MDS (Ortho) |
| Reshma Rk     | Bachelor of Dental Sciences | University Of Greenwich, London      | MSc.        |

**c. Students benefited by career counseling and guidance for competitive Examinations: 2021-22**

| Activity Description                                    | No. of Participants |
|---|---------------------|
| CEDEES Program for exam preparation & career counseling | 21                  |

**d. Faculty members: Awards & Recognitions: 2021-22**

| Name of Faculty Member | Awards/Recognition   |
|------------------------|--|
| Arundeeep Singh        | Recognition as Incharge-Representative to CDE, Indian Dental Association, West Delhi Branch. 27-06-2021  |
| Lipika Gopal           | Letter of Recognition- Evaluation of Student Project Scheme (01-1-2021)  |
| Manish Bhargava        | World Clinical Laser Institute Associate fellowship (22-10-2021)   |
| Sucheta Jala           | World Clinical Laser Institute Associate fellowship (22-10-2021)   |
| Pankaj Dhawan          | World Clinical Laser Institute Associate fellowship (22-10-2021)   |
| Anchal Varshney        | Letter of Recognition- Evaluation of Student Project Scheme (01-12-2021)   |
| Anchal Varshney        | Emerging Scientist Award; International Conference for Award Winners on Engineering, Science and Medicine held on 12-11-2021                       |
| Shivani Aggarwal       | Letter of Recognition for Evaluation of Student Project Scheme (01-12-2021)  |
| Shveta Sood            | Letter of Recognition for Evaluation of Student Project Scheme (01-12-2021)  |
| Ashim Aggarwal         | Letter of Recognition for Evaluation of Student Project Scheme (01-12-2021)  |
| Ashim Aggarwal         | Recognition as Invited Session Chair for scientific session at 24th Mid-Term Conference and 10th PG Convention of AOMSI (30-07-2021 to 01-08-2021) |
| Nipun Dhalla           | Letter of recognition for Evaluation of Student Project Scheme (01-12-2021)  |
| Piyush Tandan          | Recognition as Invited Session Chair for scientific session at 23rd IPS PG Convention Jaipur (02-07-2021 to 04-07-2021)                            |
| Shivam Singh Tomar     | Recognition as Invited Session Chair for scientific session at 23rd IPS PG Convention Jaipur (02-07-2021 to 04-07-2021)                            |
| Sumit Bhateja          | Best Author & Young Researcher Award for journal titled: Journal of Oral Medicine, Oral Surgery, Oral Pathology and Oral Radiology(19-03-2022)     |
| Sumit Bhateja          | Peer Reviewer Award(11-03-2022 to 12-03-2022)  |
| Sumit Bhateja          | Invited Editor for the journal "Frontiers in Oral Health & Nutrition" (20-05-2022)   |
| Sumit Bhateja          | Award for Excellence in Reviewing (04-05-2022)   |

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| Sumit Bhateja   | Invited Editorial Team Member for Indian Journal of Contemporary Dentistry (16-08-2022)   |
| Meena Jain      | Recognition as invited guest speaker for the World Dentistry Conference(WDC-2022)(27-04-2022 to 28-04-202)  |
| Meena Jain      | Peer Reviewer for Pubmed indexed International Journal (18-05-2022)   |
| Meena Jain      | Peer Reviewer for Pubmed indexed International Journal (24-03-2022)   |
| Meena Jain      | Peer Reviewer for Pubmed indexed International Journal (10-05-2022)   |
| Meena Jain      | Peer Reviewer for Pubmed indexed International Journal (24-02-2022)   |
| Meena Jain      | Peer Reviewer for International Journals of Springer Nature(20-01-2022)   |
| Harsimran Kaur  | Recognition as invited guest speaker on the topic :Predictable Implant Placement: Your Guide To Guides For Implant Surgery (24-2-2022 to 26-02-2022)                                      |
| Harsimran Kaur  | Recognition as invited guest speaker (Prosthodontics Master Course) 28-03-2022 to 02-04-2022  |
| Harsimran Kaur  | Recognition a mentor for Pre-Convention course (04-03-2022)   |
| Harsimran Kaur  | Recognition as Chairperson at scientific session at 24th IPS Dharwad convention(04-03-2022 to 06-03-2022)   |
| Harsimran Kaur  | Recognition as invited guest speaker on the topic: Revisiting the Art and Science of Complete Denture Prosthodontics (31-05-2022)   |
| Manish Bhargava | Chaired a session in Foundation day of Forensic Odontology Unit and 4th International Conference of Forensic Odontology & Child Abuse in association with IAMLE(28-03-2022 to 31-03-2022) |
| Manish Bhargava | Recognition as invited Judge of Scientific session in IOAMP National 3D Virtual Convention held for postgraduates (11-08-2021 to 12-08-2021)  |
| Shakila Mahesh  | Recognition as invited speaker in National Webinar on Recent Advances in Prevention and Control of Hepatitis B & C (28-02-2022)   |
| Pooja Palwankar | Award for Excellence in Reviewing: Journal of Pharmaceutical Research International (26-04-2022)  |
| Dax Abraham     | Certificate of appreciation for delivering guest lecture(04-03-2022)  |

#### e. FDPs attended by Faculty Members:2021-22

| Name of the Faculty member | Title of the event  | Date From  | Date To    |
|----------------------------|---|------------|------------|
| Abhinav Kumar Sharma       | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Abhita Malhotra            | FDP on Outlook over Research Writing and Publication Process  | 13-12-2021 | 18-12-2021 |
| Abhita Malhotra            | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Aditya Talwar              | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Aishvarya kaushik          | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |

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| Akanksha Monga      | FDP on Outlook over Research Writing and Publication Process  | 13-12-2021 | 18-12-2021 |
| Akanksha Monga      | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Akanksha Shukla     | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Akshara             | FDP on Outlook over Research Writing and Publication Process  | 13-12-2021 | 18-12-2021 |
| Akshara             | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Alpa Gupta          | FDP on Outlook over Research Writing and Publication Process  | 13-12-2021 | 18-12-2021 |
| Alpa Gupta          | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Alpana Goel Kesar   | FDP on Outlook over Research Writing and Publication Process  | 13-12-2021 | 18-12-2021 |
| Alpana Goel Kesar   | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Amit Mohan          | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Anchal Varshney     | FDP on Outlook over Research Writing and Publication Process  | 13-12-2021 | 18-12-2021 |
| Anchal Varshney     | FDP on Advanced Research Methodology  | 21-03-2022 | 27-03-2022 |
| Anchal Varshney     | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Anjana Goyal        | FDP on Outlook over Research Writing and Publication Process  | 13-12-2021 | 18-12-2021 |
| Anjana Goyal        | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Anupama V. Betigeri | FDP on Outlook over Research Writing and Publication Process  | 13-12-2021 | 18-12-2021 |
| Anupama V. Betigeri | Online Certification Course Niecer 102 Ethics Review of Health Research                                   | 01-03-2022 | 01-05-2022 |
| Anupama V. Betigeri | Basic Course in Biomedical Research(ICMR)   | 01-12-2021 | 01-04-2022 |
| Anupama V. Betigeri | Two Weeks International Workshop on Research Methodology,Academic Writing and Publishing                  | 15-02-2022 | 26-02-2022 |
| Anupama V. Betigeri | FDP on Outlook for research Writing and Publication Process   | 13-12-2021 | 18-12-2021 |

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| Anupama V. Betigeri | FDP on Leadership Mastery through Self Management   | 27-12-2021 | 31-12-2021 |
| Anupama V. Betigeri | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Arundeeep Singh     | FDP on Outlook over Research Writing and Publication Process  | 13-12-2021 | 18-12-2021 |
| Arundeeep Singh     | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Ashim Aggarwal      | FDP on Outlook over Research Writing and Publication Process  | 13-12-2021 | 18-12-2021 |
| Ashim Aggarwal      | International E-Conclave on Tobacco Cessation by ICanCare   | 04-07-2021 | 25-07-2021 |
| Ashim Aggarwal      | One Week Online International Workshop on Statistical Data Analysis using SPSS                            | 21-05-2022 | 27-05-2022 |
| Ashim Aggarwal      | Online Course Introduction to Systematic Reviews for Dental Health Professionals                          | 01-02-2022 | 30-04-2022 |
| Ashim Aggarwal      | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Ashish Kumar Singh  | FDP on Outlook over Research Writing and Publication Process  | 13-12-2021 | 18-12-2021 |
| Ashish Kumar Singh  | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Dax Abraham         | FDP on Outlook over Research Writing and Publication Process  | 13-12-2021 | 18-12-2021 |
| Dax Abraham         | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Divyesh Mehta       | FDP on Outlook over Research Writing and Publication Process  | 13-12-2021 | 18-12-2021 |
| Divyesh Mehta       | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Garima              | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Harsimran Kaur      | FDP on Outlook over Research Writing and Publication Process  | 13-12-2021 | 18-12-2021 |
| Harsimran Kaur      | Online Certification Course Basic Course in Biomedical Research   | 01-02-2022 | 30-04-2022 |
| Harsimran Kaur      | Online Course Introduction to Systematic Reviews for Dental Health professionals                          | 01-02-2022 | 30-04-2022 |
| Harsimran kaur      | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |

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| Hitesh               | FDP on Outlook over Research Writing and Publication Process   | 13-12-2021 | 18-12-2021 |
| Hitesh               | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion              | 07-02-2022 | 11-02-2022 |
| Jaiprinkaur Sethi    | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion              | 07-02-2022 | 11-02-2022 |
| Jitesh Wadhwa        | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion              | 07-02-2022 | 11-02-2022 |
| Karishma Chhabra     | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion              | 07-02-2022 | 11-02-2022 |
| Karunik Gupta        | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion              | 07-02-2022 | 11-02-2022 |
| Kumar Rakshak Anand  | FDP on Outlook over Research Writing and Publication Process   | 13-12-2021 | 18-12-2021 |
| Kumar Rakshak Anand  | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion              | 07-02-2022 | 11-02-2022 |
| Lipika Gopal         | FDP on Outlook over Research Writing and Publication Process   | 13-12-2021 | 18-12-2021 |
| Lipika Gopal         | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion              | 07-02-2022 | 11-02-2022 |
| M.Y. Shareef         | FDP on Outlook over Research Writing and Publication Process   | 13-12-2021 | 18-12-2021 |
| M.Y. Shareef         | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion              | 07-02-2022 | 11-02-2022 |
| Madhulika Srivastava | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion              | 07-02-2022 | 11-02-2022 |
| Manish Bhargava      | Virtual FDP on "Outlook Over Research writing and Publication Process" organised by Faculty of Allied sciences, MRIIRS | 13-12-2021 | 18-12-2021 |
| Manish Bhargava      | WCLI laser course at MRCDE Module 1  | 31-08-2021 | 22-10-2021 |
| Manish Bhargava      | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion              | 07-02-2022 | 11-02-2022 |
| Manju Singh          | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion              | 07-02-2022 | 11-02-2022 |
| Mansi Nautiyal       | FDP on Outlook over Research Writing and Publication Process   | 13-12-2021 | 18-12-2021 |
| Mansi Nautiyal       | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion              | 07-02-2022 | 11-02-2022 |

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| Meena Jain      | FDP on Outlook over Research Writing and Publication Process  | 13-12-2021 | 18-12-2021 |
| Meena Jain      | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Naresh Sharma   | FDP on Outlook over Research Writing and Publication Process  | 13-12-2021 | 8-12-2021  |
| Naresh Sharma   | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Nipun Dhalla    | FDP on Outlook over Research Writing and Publication Process  | 13-12-2021 | 18-12-2021 |
| Nipun Dhalla    | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Nisha yadav     | FDP on Outlook over Research Writing and Publication Process  | 13-12-2021 | 18-12-2021 |
| Nisha Yadav     | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Nishant chauhan | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Nitin Arora     | FDP on Outlook over Research Writing and Publication Process  | 13-12-2021 | 18-12-2021 |
| Nitin Arora     | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Ojasvi Nijhawan | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Pankaj Dhawan   | FDP on Outlook over Research Writing and Publication Process  | 13-12-2021 | 18-12-2021 |
| Pankaj Dhawan   | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Piyush Tandan   | FDP on Outlook over Research Writing and Publication Process  | 13-12-2021 | 18-12-2021 |
| Piyush Tandan   | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Pooja Palwankar | FDP on Outlook over Research Writing and Publication Process  | 13-12-2021 | 18-12-2021 |
| Pooja Palwankar | Online Certification Course on Ethics review of Health Research(NIE-ICMR e-Certificate Course:NIECer102)  | 01-10-2021 | 01-01-2022 |
| Pooja Palwankar | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Prashant Sharma | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |

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| Pratul Priyadarshini | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Puneet Batra         | FDP on Outlook over Research Writing and Publication Process  | 13-12-2021 | 18-12-2021 |
| Puneet Batra         | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Puneet Mohan Khari   | FDP on Outlook over Research Writing and Publication Process  | 13-12-2021 | 18-12-2021 |
| Puneet Mohan Khari   | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Ravjot Ahuja         | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Reena Doomra         | FDP on Outlook over Research Writing and Publication Process  | 13-12-2021 | 18-12-2021 |
| Reena Doomra         | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Reena Roy Rassawet   | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Roomani Srivastava   | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Ruchi Pandey         | FDP on Outlook over Research Writing and Publication Process  | 13-12-2021 | 18-12-2021 |
| Ruchi Pandey         | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Savita Bansal        | NPTEL course on Basic Course in Biomedical Research   | 01-03-2021 | 30-06-2021 |
| Savita Bansal        | FDP on Leadership Mastery Through Self Management   | 27-12-2021 | 31-12-2021 |
| Savita Bansal        | FDP on Outlook over Research Writing and Publication Process  | 13-12-2021 | 18-12-2021 |
| Savita Bansal        | Online Certification Course on NIE: Cer103 Scientific Writing in Health Research                          | 01-01-2022 | 01-03-2022 |
| Savita Bansal        | Online Certification Course Niecer 102 Ethics Review of Health Research                                   | 01-10-2021 | 01-01-2022 |
| Savita Bansal        | Two Week International Workshop Research Methodology, Academic Writing and Publishing                     | 15-02-2022 | 26-02-2022 |
| Savita Bansal        | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Seema Hasna Bukhari  | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |

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| Shakila Mahesh     | FDP on Outlook over Research Writing and Publication Process  | 13-12-2021 | 18-12-2021 |
| Shakila Mahesh     | Online Certification Course on NIE: Cer103 Scientific Writing in Health Research                          | 01-01-2022 | 01-03-2022 |
| Shakila Mahesh     | Online Certification Course Nicer 102 Ethics Review of Health Research                                    | 01-03-2022 | 01-05-2022 |
| Shakila Mahesh     | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Sheena             | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Shetal Gupta       | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Shivam Singh Tomar | FDP on Outlook over Research Writing and Publication Process  | 13-12-2021 | 18-12-2021 |
| Shivam Singh Tomar | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Shivani Aggarwal   | International E-Conclave on Tobacco Cessation by ICanCare   | 04-07-2021 | 25-07-2021 |
| Shivani Aggarwal   | FDP on Outlook over Research Writing and Publication Process  | 13-12-2021 | 18-12-2021 |
| Shivani Aggarwal   | Orientation course on Tobacco Cessation by ICanCare and Gujarat University                                | 19-06-2021 | 08-08-2021 |
| Shivani Aggarwal   | Online Certification Course Introduction to Systematic Reviews for Dental Health Professionals            | 01-02-2022 | 30-04-2022 |
| Shivani Aggarwal   | One Week Online International Workshop on Statistical Data Analysis using SPSS                            | 21-05-2022 | 27-05-2022 |
| Shivani Aggarwal   | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Shrey kundra       | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Shruti Saini       | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Shveta Sood        | FDP on Outlook over Research Writing and Publication Process  | 13-12-2021 | 18-12-2021 |
| Shveta Sood        | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Sucheta Jala       | FDP on Outlook over Research Writing and Publication Process  | 13-12-2021 | 18-12-2021 |
| Sucheta Jala       | WCLI laser course at MRCDE Module 1   | 31-08-2021 | 22-10-2021 |

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| Sucheta Jala    | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Sumit Bhateja   | FDP on Outlook over Research Writing and Publication Process  | 13-12-2021 | 18-12-2021 |
| Sumit Bhateja   | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Surbhi Malhotra | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Suruchi Pujara  | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Sushen Sharma   | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Suvidh Virmani  | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Swati Sanghi    | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Tamanna Soni    | FDP on Outlook over Research Writing and Publication Process  | 13-12-2021 | 18-12-2021 |
| Tamanna Soni    | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Tannu Goyal     | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Tushar kohli    | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Uswah khan      | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Varsha jain     | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Vidushi Saxena  | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Vikas swarni    | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Vishal Jain     | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |
| Yatin Bajaj     | Five days Workshop on Research Methodology titled Overview of Thesis Process-From Inception to Completion | 07-02-2022 | 11-02-2022 |

**f. Events Organised: 2021-22**

| Title of events   | From date  | To date    |
|---|------------|------------|
| CDE Workshop on - Restoration of mutilated teeth: Professional Development Program for teaching staff                             | 03-09-2021 | 03-09-2021 |
| WCLI laser course at MRCDE Module 2-Professional Development Program for teaching staff   | 20-10-2021 | 22-10-2021 |
| Workshop on Get It Right the first Time with Magnification in Endodontics-Professional Development Program for teaching staff     | 25-10-2021 | 27-10-2021 |
| Symposium on Orthodontics: OrthoRachna 2K21-Professional Development Program for teaching staff                                   | 29-11-2021 | 29-11-2021 |
| Research Methodology Workshop on Overview of Thesis Process from Inception to Completion in collaboration with SRM Dental College | 07-02-2022 | 11-02-2022 |

**g. Faculty Research Papers: 2021-22**

| Title of paper   | Name of the author/s  | Name of journal  | Year of publication |
|--|---|--|---------------------|
| A comparative evaluation of presurgical infant orthopedics of modified Grayson's technique with clear aligners incorporating a nasal elevator in patients with unilateral cleft lip and palate | Puneet Batra  | American Journal of Orthodontics & Dentofacial Orthopedics | 2021-22             |
| A New Frame For Orienting Infants With Cleft Lip And Palate During 3-Dimensional Facial Scanning   | Alisha K, Batra P, Raghavan S, Sharma K, Talwar A.                  | Cleft Palate-Craniofacial Journal                          | 2021-22             |
| An Assessment Of Oral Health Status Among Lead Battery Factory Workers In Ghaziabad Up A Cross Sectional Study.  | Monga A, Thrveer K, Gupta B, Aggarwal A, Yadav N, Jain M, Sharma A. | Indian Journal of Forensic Medicine and Toxicology         | 2021-22             |
| Analysis Of Growth Potential Of Odontogenic Keratocyst Using Ki-67 A Systematic Review.  | Varshney A, Aggarwal S  | Turkish Journal of Physiotherapy & Rehabilitation          | 2021-22             |
| Anesthetic Efficacy Of Primary And Supplemental Buccal/Lingual Infiltration In Patients With Irreversible Pulpitis In Human Mandibular Molars A Systematic Review And Meta-Analysis            | Alpa Gupta, Dax Abraham, Sucheta Jala, and Arundeeep Singh          | Journal of Dental Anesthesia and Pain Medicine             | 2021-22             |
| Anesthetic Efficacy of Supplemental intra- ligamentary injection in irreversible pulpitis: A Systematic Review and meta analysis on human mandibular teeth                                     | Alpa Gupta  | Journal of Dental Anesthesia and Pain Medicine             | 2021-22             |
| Anesthetic Efficacy of Supplemental intra- ligamentary injection in irreversible pulpitis: A Systematic Review and meta analysis on human mandibular teeth                                     | Arundeeep Singh   | Journal of Dental Anesthesia and Pain Medicine             | 2021-22             |

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| Anesthetic Efficacy of Supplemental intra- ligamentary injection in irreversible pulpitis: A Systematic Review and meta analysis on human mandibular teeth | Dax Abraham  | Journal of Dental Anesthesia and Pain Medicine                    | 2021-22 |
| Artificial Intelligence In Dentistry A Milestone   | Dsv Sindhuja, Gaurvi Vikram Kamra, Ankur Sharma  | Indian Journal of Applied Research                                | 2021-22 |
| Assessment of Changes in Oral Health-related Quality of Life and Nutritional Status of Edentulous Patients before and after Insertion of Complete Dentures | Meena Jain   | International Journal of Prosthodontics and Restorative Dentistry | 2021-22 |
| Assessment Of Patients' Satisfaction With Fixed Partial Denture And Its Correlation With Patients' Evaluation Of Clinicians.                               | Khan U, Dhawan P, Tandan P, Jain M   | Annals of the Romanian Society for Cell Biology                   | 2021-22 |
| Assessment Of Salivary Thiocyanate Levels And Ph In The Saliva Of Smokers And Nonsmokers With Chronic Periodontitis – A Comparative Study.                 | Kumar CN, Rao SM, Jethlia A, Linganna CS, Bhargava M, Palve DH                               | Indian Journal of Dental Research                                 | 2021-22 |
| Association Of Il-1B Gene Polymorphism With Periodontitis In Indian PopulationA Systemic Review  | Pandey R, Bhateja S  | Turkish Journal of Physiotherapy & Rehabilitation                 | 2021-22 |
| Association of Obesity and Resistin levels in Periodontal disease  | Pooja Palwankar  | International Journal of Research and Reports in Dentistry        | 2021-22 |
| Association of Obesity and Resistin levels in Periodontal disease  | Nipun Dhalla   | International Journal of Research and Reports in Dentistry        | 2021-22 |
| Attitude, Social Presence, And Satisfaction Of Dental Students Toward E-Learning - A Cross-Sectional Study From Haryana, India                             | Shakila Mahesh, Savita Bansal, Kruthiventi Hemalata, Anila Maria Varghese                    | Journal of evolution of medical and Dental sciences               | 2021-22 |
| Awareness, attitude and practice about basic life support among dental students  | Savita Bansal, Jigyasa Gupta, Juhi singhla, Harit, Kadambari, Ragesvari, Kajasai, Manya Jain | Journal of the scientific society                                 | 2021-22 |
| Beam Of Light - An Asset To Dentistry  | Gopal L, Aggarwal A  | Vidyabharati International Interdisciplinary Research Journal     | 2021-22 |
| Bone Graft And Materials In Dentistry  | Dhalla N, Aggarwal A   | Turkish Journal of Physiotherapy & Rehabilitation                 | 2021-22 |
| Comparative evaluation of fracture resistance of reattached tooth fragment using biological dentin post with fiberreinforced composite post- A pilot study | Kurian AH, Gupta A, Abraham D, Singh A, Chauhan P, Jala S                                    | Endodontology   | 2021-22 |



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| Extrafollicular adenomatoid odontogenic tumor: An infrequent case report                                     | Jaishree Sharma, Anchal Varshney, Archana Bharti Raina, Disha Chopra   | Indian Journal of Pathology and Microbiology                 | 2021-22 |
| Fibrous Focal Hyperplasia : A case Report  | Pooja Palwankar  | International Journal of Research and Reports in Dentistry   | 2021-22 |
| Happiness, A Function Of Emotional Intelligence: An Analysis Among Dental Students Of Faridabad              | Meena Jain, Roomani Srivastava   | Journal of Positive School Psychology                        | 2021-22 |
| Hyperbaric Oxygen Therapy And Its Suitability As An Adjuvant For Treatment Of Covid-19 Patients A Review     | Dawar S, Jain M  | International Journal of Research in Pharmaceutical Sciences | 2021-22 |
| IgA levels among type II diabetic and non-diabetic patients with periodontitis: A prospective Clinical study | Pooja Palwankar, Saumya Jain, Ruchi Pandey, Shakila Mahesh   | European journal of dentistry                                | 2021-22 |
| Immunohistochemical evaluation of E-cadherin in oral epithelial dysplasia and squamous cell carcinoma        | Shivani Aggarwal   | Indian Journal of Pathology & Microbiology                   | 2021-22 |
| Immunohistochemical evaluation of E-cadherin in oral epithelial dysplasia and squamous cell carcinoma        | Manish Bhargava  | Indian Journal of Pathology & Microbiology                   | 2021-22 |
| Immunohistochemical evaluation of E-cadherin in oral epithelial dysplasia and squamous cell carcinoma        | Anchal Varshney  | Indian Journal of Pathology & Microbiology                   | 2021-22 |
| Immunohistochemical evaluation of E-cadherin in oral epithelial dysplasia and squamous cell carcinoma        | Ashim Aggarwal   | Indian Journal of Pathology & Microbiology                   | 2021-22 |
| Influence of vehicle for calcium hydroxide on postoperative pain: a scoping review                           | Arundeeep Singh  | Journal of Dental Anesthesia and Pain Medicine               | 2021-22 |
| Influence of vehicle for calcium hydroxide on postoperative pain: a scoping review                           | Dax Abraham  | Journal of Dental Anesthesia and Pain Medicine               | 2021-22 |
| Influence of vehicle for calcium hydroxide on postoperative pain: a scoping review                           | Alpa Gupta   | Journal of Dental Anesthesia and Pain Medicine               | 2021-22 |
| Influence of vehicle for calcium hydroxide on postoperative pain: a scoping review                           | Sucheta Jala   | Journal of Dental Anesthesia and Pain Medicine               | 2021-22 |
| Knowledge and Perception about Patient Empowerment and Telemedicine  | Anupama Vithalkumar Betigeri, Kaja Sai Ragesvari, Manya Jain, Jigyasa Gupta, Juhi Singhla, and Kadambari Harit | Indian Journal of Health and Well being                      | 2021-22 |

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|--|---|--|---------|
| Ligaplants A New Era In Dental Engineering.  | Gopal L, Varshney A, Aggarwal A, Aggarwal S                                     | Bioscience Biotechnology Research Communications           | 2021-22 |
| Management of dental trauma by school teachers of private and government schools in Lucknow city   | Madhulika Srivastava  | International Journal of Health Sciences                   | 2021-22 |
| Medical Profession in the 21st Century. Is it Still Alluring??   | Savita Bansal   | Journal of the scientific Society                          | 2021-22 |
| Nutritional aspects of Oral disorders  | Sumit Bhateja   | IP Journal of Nutrition, Metabolism and Health Sciences    | 2021-22 |
| Oral And Perioral Piercings Awareness And Knowledge Among Undergraduate Dental Students In A Private Dental College, Haryana   | Reshma RK, Bhateja S, Soni T, Arora G, Arora S                                  | International Dental Journal of student's research         | 2021-22 |
| Oral Health Status Of 3-5 Years Old Anganwadi Children In Faridabad District, India  | Meena Jain  | International Journal of Early Childhood Special Education | 2021-22 |
| Parents' Perspectives On The Impact Of Dental Caries On Oral Health-Related Quality Of Life In Preschool Children  | Tandon S, Chopra D, Aggarwal A, Aggarwal S                                      | Journal of Cardiovascular Disease Research                 | 2021-22 |
| Periodontal Health Of The Geriatric Population In Old-Age Homes Of Delhi, India.   | . Yadav NR., Jain M, Sharma A, Jain V, Singh S., Singh A., Reddy VK., Tandon S. | Journal of Indian Society of Periodontology                | 2021-22 |
| Post-Covid-19 Orthodontics Are We Staring At Stratification Or Collaboration Amongst Professionals?  | Batra, P  | Journal of Indian Orthodontic Society                      | 2021-22 |
| Prosthetic Status And Needs Among Head And Neck Cancer Irradiated Patients Suffering From Xerostomia In Delhi, India   | . Gupta S, Dhawan P, Tandan P, Jain M   | Indian Journal of Forensic Medicine and Toxicology.        | 2021-22 |
| Randomised Controlled Trial To Compare The Efficacy Of Scalpel, Laser And Cryotherapy (Tetrafluoroethane) Techniques In Depigmentation Of Gingiva  | Sharma R, Pandey R, Palwankar P   | Turkish Journal of Physiotherapy & Rehabilitation          | 2021-22 |
| Redefining Prosthodontics With 3D Printing   | Chetna Grover, Pankaj Dhawan, Shivam Singh Tomar                                | International Journal of Advanced Research                 | 2021-22 |
| Reducing The Burden Of Orthodontic Care For Children With Clefts Evaluating The Effectiveness Of Pre-Alveolar Bone Graft Orthodontics In Unilateral Non-Syndromic Cleft Patients (Pabo Study)— A Study Protocol For A Multicentric Randomised Controlled Trial | Thiruvengkatachari, B., Hussain, S.A., Batra, P., Vijayakumar, C., Prathap .C   | Trials   | 2021-22 |

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|---|---|---|---------|
| Regenerative Aspects In Prosthodontics  | Nikita Karabale,<br>Pankaj Dhawan,<br>Divyesh Mehta   | JOURNAL OF PROSTHODONTICS DENTISTRY                   | 2021-22 |
| Rise And Exacerbation Of Oral Lichen Planus In The Background Of Sars-Cov-2 Infection   | Sood A, Raghavan S,<br>Batra P, Sharma K,<br>Talwar A   | Medical Hypotheses                                    | 2021-22 |
| Role and significance of ghrelin and leptin in hunger, satiety, and energy homeostasis  | Savita Bansal   | Journal of the scientific Society                     | 2021-22 |
| Salivary And Gingival Crevicular Fluid Psychological Stress Biomarkers In Periodontal Disease   | Palwankar P, Tyagi D,<br>Gopal L  | European Journal of molecular and clinical medicine   | 2021-22 |
| Should We Mind The Knowledge And Skill Gap Covid-19 Has Created?  | Batra, P  | Journal of Indian Orthodontic Society                 | 2021-22 |
| Smoking among professional college students : consumption and risk factors  | Dr Sumit Bhateja  | Journal of Preventive Medicine and Holistic health    | 2021-22 |
| The correlation of Ki-67 (MIB-1) proliferation index and progesterone receptor status with histological grade of meningioma An observational study. | Laxmi Aheer, A R Kaila ,<br>Savita Bansal , Pawan Kumar ,<br>Kishore Khatri.  | International Journal of Health and Clinical Research | 2021-22 |
| The Impact of Oral Health on the Quality of Life of Patients with Head and Neck Cancer Who Receive Treatment at a Cancer Hospital                   | Sarbani Deb Sikdar ,<br>Shilpa Jain , Shivani Aggarwal ,<br>Ashim Aggarwal , Kriti Sao ,<br>Animesh Barodiya                  | NEUROQUANTOLOGY                                       | 2021-22 |
| The untold Saga of chromotherapy in Dentistry   | Sumit Bhateja   | Journal of Family Medicine and Primary Care           | 2021-22 |
| To determine association between socioeconomic status, tobacco use and Periodontal health   | Pooja Palwankar   | International Journal of Special Education            | 2021-22 |
| Validation Of Pefloxacin For Detection Of Fluoroquinolone (Fq) Resistance Among Salmonella Typhi With Special Reference To Gyrb Mutations           | Shakila, Shobha Broor1, G Ruchi Gupta,<br>Priti Agarwal,<br>Subhradeep Majumder,<br>Anupam Kumar Anveshi<br>and Rajni Gaiind2 | Journal of Medical Microbiology                       | 2021-22 |

#### h. Books Chapters: 2021-22

| Name of the teacher | Title of the book/chapters published                                     | Title of the paper | Title of the proceedings of the conference / |
|---------------------|--|--------------------|--|
| Akshara Singh       | Diabetes Mellitus in Children-an uncontrolled Chaos                      | NA                 | NA   |
| Divyesh Mehta       | Full Mouth Rehabilitation  | NA                 | NA   |
| Naresh Sharma       | Obstructive Sleep Apnoea in Children                                     | NA                 | NA   |
| Naresh Sharma       | Detection and Diagnosis of Dental Caries                                 | NA                 | NA   |
| Naresh Sharma       | Diabetes Mellitus in Children-an uncontrolled Chaos                      | NA                 | NA   |
| Nipun Dhalla        | Medical Emergencies and management in Dental office: Medical emergencies | NA                 | NA   |
| Piyush Tandan       | Adhesives in Dentistry   | NA                 | NA   |
| Pooja Palwankar     | Medical Emergencies and management in Dental office: Medical emergencies | NA                 | NA   |
| Shivam Singh        | Full Mouth Rehabilitation  | NA                 | NA   |
| Shveta Sood         | Management of pulpally involved young permanent teeth                    | NA                 | NA   |
| Shveta Sood         | Detection and Diagnosis of Dental Caries                                 | NA                 | NA   |
| Shveta Sood         | Pediatric Epilepsy and Seizures-is there hope?                           | NA                 | NA   |
| Shveta Sood         | Obstructive Sleep Apnoea in Children                                     | NA                 | NA   |

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| Tamanna Soni                 | Evaluation of Temporomandibular Joint in health and diseases | NA | NA |
| Pooja Palwankar              | Stress and periodontal disease                               | NA | NA |
| Pooja Palwankar              | Obesity and Periodontal Disease                              | NA | NA |
| Pooja Palwankar              | Epigenetics and Periodontal disease                          | NA | NA |
| Ruchi pandey                 | Epigenetics and Periodontal disease                          | NA | NA |
| Nipun Dhalla                 | Obesity and Periodontal Disease                              | NA | NA |
| Lipika Gopal                 | Stress and periodontal disease                               | NA | NA |
| Nitin Arora,<br>Ashish Singh | Light curing units in Dentistry                              | NA | NA |
| Nitin Arora,<br>Ashish Singh | Extra alveolar TADS- IZC, MBS Screws                         | NA | NA |
| Nitin Arora,<br>Ashish Singh | Digital Orthodontics   | NA | NA |
| Ashish Kumar<br>Singh        | Light curing units in Dentistry                              | NA | NA |
| Ashish Kumar<br>Singh        | Extra alveolar TADS- IZC, MBS Screws                         | NA | NA |
| Ashish Kumar<br>Singh        | Digital Orthodontics   | NA | NA |

|                           |                                      |                                  |   |
|---------------------------|--------------------------------------|----------------------------------|---|
| Sumit Bhateja             | NA                                   | 5A's & 5R's of Tobacco cessation | National Conference on Tobacco Control: healthcare & Beyond |
| Pooja Palwankar           | Stress and periodontal disease       | NA                               | NA  |
| Pooja Palwankar           | Obesity and Periodontal Disease      | NA                               | NA  |
| Pooja Palwankar           | Epigenetics and Periodontal disease  | NA                               | NA  |
| Ruchi pandey              | Epigenetics and Periodontal disease  | NA                               | NA  |
| Nipun Dhalla              | Obesity and Periodontal Disease      | NA                               | NA  |
| Lipika Gopal              | Stress and periodontal disease       | NA                               | NA  |
| Nitin Arora, Ashish Singh | Light curing units in Dentistry      | NA                               | NA  |
| Nitin Arora, Puneet Batra | Extra alveolar TADS- IZC, MBS Screws | NA                               | NA  |
| Nitin Arora, Ashish Singh | Digital Orthodontics                 | NA                               | NA  |
| Ashish Kumar Singh        | Light curing units in Dentistry      | NA                               | NA  |
| Ashish Kumar Singh        | Extra alveolar TADS- IZC, MBS Screws | NA                               | NA  |
| Ashish Kumar Singh        | Digital Orthodontics                 | NA                               | NA  |

### Board of Faculty-FDS

|    |                         |  |                 |
|----|-------------------------|--|-----------------|
| 1  | Dr. Arundeeep Singh     | Professor & Dean, FDS                                    | Chairperson     |
| 2  | Dr. Ashim Aggarwal      | Professor & Head, Dept. of Oral Surgery                  | Member          |
| 3  | Dr. Pankaj Dhawan       | Professor & Head ,Dept of Prosthodontics                 | Member          |
| 4  | Dr. Shivani Aggarwal    | Professor&Head,Dept. of Oral Pathology                   | Member          |
| 5  | Dr. Pooja Palwankar     | Professor & Head ,Dept. of Periodontology                | Member          |
| 6  | Dr Nitin Arora          | Professor & Head ,Dept. of Orthodontics                  | Member          |
| 7  | Dr. ShvetaSood          | Professor & Head ,Dept. of Pedodontics                   | Member          |
| 8  | Dr. Dax Abraham         | Professor&Head,Dept. of Conservative Dentistry           | Member          |
| 9  | Dr.Alpana Goel Kesar    | Reader &Head,Department of Anatomy                       | Member          |
| 10 | Dr. SumitBhateja        | Professor & Head ,Dept of Oral Medicine                  | Member          |
| 11 | Dr. Meena Jain          | Professor & Head ,Dept of Public Health Dentistry        | Member          |
| 12 | Dr. Anupama V. Betigeri | Professor & Head ,Dept of Physiology                     | Member          |
| 13 | Dr. Anjana Goyal        | Professor & Head ,Dept. of Biochemistry                  | Member          |
| 14 | Dr. Reena Doomra        | Professor & Head ,Dept. of Pharmacology                  | Member          |
| 15 | Dr. Savita Bansal       | Professor & Head ,Department of General Pathology        | Member          |
| 16 | Dr.Shakila Mahesh       | Reader &Head,Department of Microbiology                  | Member          |
| 17 | Dr. Naresh Sharma       | Professor,Dept. of Pedodontics                           | Member          |
| 18 | Dr. Puneet Batra        | Professor,Dept. of Orthodontics                          | Member          |
| 19 | Dr. Piyush Tandan       | Professor,Dept. of Prosthodontics                        | Member          |
| 20 | Dr Ashish Kumar Singh   | Professor,Dept. of Orthodontics                          | Member          |
| 21 | Dr.Manish Bhargava      | Professor,Department of Oral Pathology                   | Member          |
| 22 | Dr.Lipika Gopal         | Reader,Dept. of Periodontology                           | Member          |
| 23 | Dr. Tamanna Soni        | Reader,Dept. of Oral Medicine Radiology                  | Member          |
| 24 | Dr. Parul Chauhan       | Senior Lecturer,Dept. of Conservative Dentistry          | Member          |
| 25 | Dr.Roomani Srivastava   | Senior Lecturer,Dept. of Public Health Dentistry         | Member          |
| 26 | Dr Vivek Aggarwal       | Professor ,Dept. of Conservative Dentistry & Endodontics | External Member |
| 27 | Dr. Abhishek Mehta      | Professor & Head, Dept. of Public Health Dentistry       | External Member |

### Board of Studies

|    |                         |  |                 |
|----|-------------------------|--|-----------------|
| 1  | Dr. Ashim Aggarwal      | Vice Principal, FDS.   | Chairperson     |
| 2  | Dr. Arundeeep Singh     | Principal, FDS   | Member          |
| 3  | Dr. Dax Abraham         | Professor&Head,Dept. of Conservative Dentistry                               | Member          |
| 4  | Dr. Shivani Aggarwal    | Professor&Head,Dept. of Oral Pathology                                       | Member          |
| 5  | Dr. Pooja Palwankar     | Professor & Head ,Dept. of Periodontology                                    | Member          |
| 6  | Dr. ShvetaSood          | Professor & Head ,Dept. of Pedodontics                                       | Member          |
| 7  | Dr. Pankaj Dhawan       | Professor & Head ,Dept of Prosthodontics                                     | Member          |
| 8  | Dr. Sridhar Kannan      | Professor & Head ,Dept. of Orthodontics                                      | Member          |
| 9  | Dr. SumitBhateja        | Professor & Head ,Dept of Oral Medicine                                      | Member          |
| 10 | Dr. Meena Jain          | Professor & Head ,Dept of Public Health Dentistry                            | Member          |
| 11 | Dr. Anupama V. Betigeri | Professor & Head ,Dept of Physiology   | Member          |
| 12 | Dr. Anjana Goyal        | Professor & Head ,Dept. of Biochemistry                                      | Member          |
| 13 | Dr. Reena Doomra        | Professor & Head ,Dept. of Pharmacology                                      | Member          |
| 14 | Dr. Savita Bansal       | Professor & Head ,Department of General Pathology                            | Member          |
| 15 | Dr. KumarRakshak Anand  | Professor,Dept. of Oral Surgery  | Member          |
| 16 | Dr. Piyush Tandan       | Professor,Dept. of Prosthodontics  | Member          |
| 17 | Dr.Manish Bhargava      | Professor,Dept. of Oral Pathology  | Member          |
| 18 | Dr. Ruchi Pandey        | Professor,Dept. of Periodontology  | Member          |
| 19 | Dr.Ashish Kumar Singh   | Professor,Dept. of Orthodontics  | Member          |
| 20 | Dr. Naresh Sharma       | Professor,Dept. of Pedodontics   | Member          |
| 21 | Dr.Alpana Goel Kesar    | Reader &Head,Department of Anatomy   | Member          |
| 22 | Dr.Shakila Mahesh       | Reader &Head,Department of Microbiology                                      | Member          |
| 23 | Dr.SheenaThamman        | Senior Lecturer ,Dept of Oral Medicine                                       | Member          |
| 24 | Dr.Akanksha Monga       | Senior Lecturer ,Dept of Public Health Dentistry                             | Member          |
| 25 | Dr.Neeraj Grover        | Professor & Head ,Dept. of Oral Pathology, Santosh Dental College, Ghaziabad | External Member |
| 26 | Dr.Anuradha Sharma      | Professor & Head ,Dept. of Microbiology                                      | External Member |

Manav Rachna Dental College, Faculty of Dental Sciences, MRIIRS with a 16 year legacy behind it, ranks among the top 24 Dental Colleges of 2022 as ranked by Outlook. With student oriented curriculum abreast with the changing times with respect to Dentistry in India, MRDC is taking Dental Education to newer heights each passing year.

Dental Education is at the cusp of transformation in India and Manav Rachna Dental College is playing its part in it by introducing Innovation in its teaching methods and outcomes. A special focus in the institute on research, innovation, enhanced clinical skills along with public service, sets it apart.

In this report, we would like to mark our positions of achievement in academic excellence, social and community healthcare, research and development and at the end, followed by our impact.

### **Academic Excellence:**

To maintain academic excellence, MRDC focuses on several key aspects:

1. **Curriculum:** The College follows a comprehensive curriculum that integrates theoretical knowledge with practical clinical experience. The curriculum is designed to provide students with a strong foundation in dentistry and prepare them for professional practice.
2. **Qualified Faculty:** MRDC has a team of experienced and qualified faculty members who are experts in their respective fields. They guide and mentor students, ensuring that they receive quality education and stay updated with the latest advancements in dentistry.
3. **Infrastructure and Facilities:** The College is equipped with state-of-the-art infrastructure and modern dental facilities. It has well-equipped laboratories, clinical training facilities, libraries, and lecture halls, providing students with a conducive learning environment.
4. **Student tagging:** is done wherein all the clinical departments include 3<sup>rd</sup> year, 4<sup>th</sup> year BDS and Interns to tag along the post graduate students in clinical cases which helps the senior to reinforce their own learning by instructing others and the junior feels more comfortable and open allowing better understanding.



4<sup>th</sup> BDS students assisting the Postgraduate student working on a patient in Dept of Pedodontics on 23<sup>rd</sup> February 2022



Peer Guided Learning where the postgraduate student performs a procedure with students of 3<sup>rd</sup> BDS observing during the Clinical Posting in Dept on 27<sup>th</sup> June 2022

**5. Scientific Presentations:** Conferences offer a myriad of opportunities to a young researcher where they contribute to and also learn about the most recent advances in their field. Undergraduate and postgraduate students participated in various national and international conferences in online and offline mode, where some of them also won the awards for best paper and poster presentations in the scientific sessions. A total of 58 undergraduates and 50 postgraduates presenting scientific papers and posters based on their topic of interest out of which 6 postgraduate and 20 undergraduate students won the awards for best paper and poster presentations in the scientific sessions.



**Scientific Presentations at PEDOPULSE- 18th ISPPD NATIONAL PG CONVENTION, Lucknow on 7-9th April 2022, by the post graduate students from the Dept. of Pedodontics.**



**Scientific presentation by 3rd year BDS students at World No Tobacco Day National Conference on 26th - 27th May 2022 conducted by the Dept. of Public Health Dentistry**

**6. Research and Publications:** MRDC encourages research activities among students and faculty members. Engaging in research projects helps students gain a deeper understanding of dental sciences and contributes to the advancement of knowledge in the field. The college also supports and promotes the publication of research findings in reputed journals.

**7. Clinical Exposure and Internship:** MRDC provides ample clinical exposure to its students through tie-ups with various hospitals and dental clinics. This exposure allows students to gain practical experience and develop clinical skills under the supervision of experienced professionals. Additionally, students undergo a mandatory internship period, where they work in different clinical settings to enhance their clinical competence.



**Students working on patient in clinics during posting in Dept of Periodontology**



**Students working on Patients in clinics during posting in Dept. of Oral Medicine and Radiology**

**8. Continuing Education Programs:** MRDC emphasizes the importance of lifelong learning and professional development. The college organizes workshops, seminars, and conferences where students and faculty members can update their knowledge and skills and interact with experts from the dental community. 2 national conferences (Dept of Periodontology and Dept of Public Health Dentistry) and 12 webinars/ workshops were held on various topics which allowed students to attain new knowledge and skills that supplemented or complemented their main field of study.

**WORLD NO TOBACCO DAY 2022**  
**- NATIONAL CONFERENCE**  
**TOBACCO CONTROL:**  
**HEALTHCARE & BEYOND**  
**26<sup>th</sup> and 27<sup>th</sup> May 2022**

Organized by  
Department of Public Health Dentistry,  
Manav Rachna Dental College  
MRIIRS CAMPUS, Surajkund Road, Faridabad

4 CDE Points

**Our Speakers**

**Our Advisors & Session Conveners**



**मानव राक्षना डेंटल कॉलेज में विश्व तंबाकू निषेध दिवस पर विश्व राष्ट्रीय सम्मेलन का आयोजन**



**A National Conference on the theme "Tobacco control: Healthcare and Beyond" was organized by the department of PCD- Public health dentistry, FDS, MRIIRS on 26-27th May 2022.**



Webinar on Prevention & Control of Hepatitis B&C on 23rd February 2022 in an online mode by Dept. of Periodontology in collaboration with ILBS.



**MANAV RACHNA** FEBRUARY  
Vidya Vigyan Chintan Sahaz

DEPARTMENT OF ORAL PATHOLOGY & GENERAL SURGERY,  
MANAV RACHNA DENTAL COLLEGE, FDS, MRIRS  
CELEBRATE

## WOMEN HEART HEALTH MONTH

ON  
22 FEBRUARY 2022  
9:00AM-1:00PM

LT-2,0 BLOCK, MANAV RACHNA DENTAL COLLEGE, MRIRS,  
FARIDABAD, HARYANA

DR. ARUNDEEP SINGH (ORGANISING CHAIRMAN)    DR. M. Y. SHARISH (SPEAKER)    DR. PRATUL PRYADAKSHINI (SPEAKER)    DR. SHIVANI AGGARWAL (ORGANISING SECRETARY)

WE ENCOURAGE YOU TO WEAR RED  
JOIN US FOR AN INSIGHTFUL PRESENTATION AND FUN FILLED GAMES

**Faculty Co-ordinators:**  
 DR. MANISH SHARDEVA  
 DR. ANCHAL GASTHNEY  
 DR. NEHU TAMMAS

**Student Co-ordinators:**  
 ADITYA SHARADWA  
 RANI TOLBIR  
 CHIRAG SALMA  
 JAYASA GUPTA

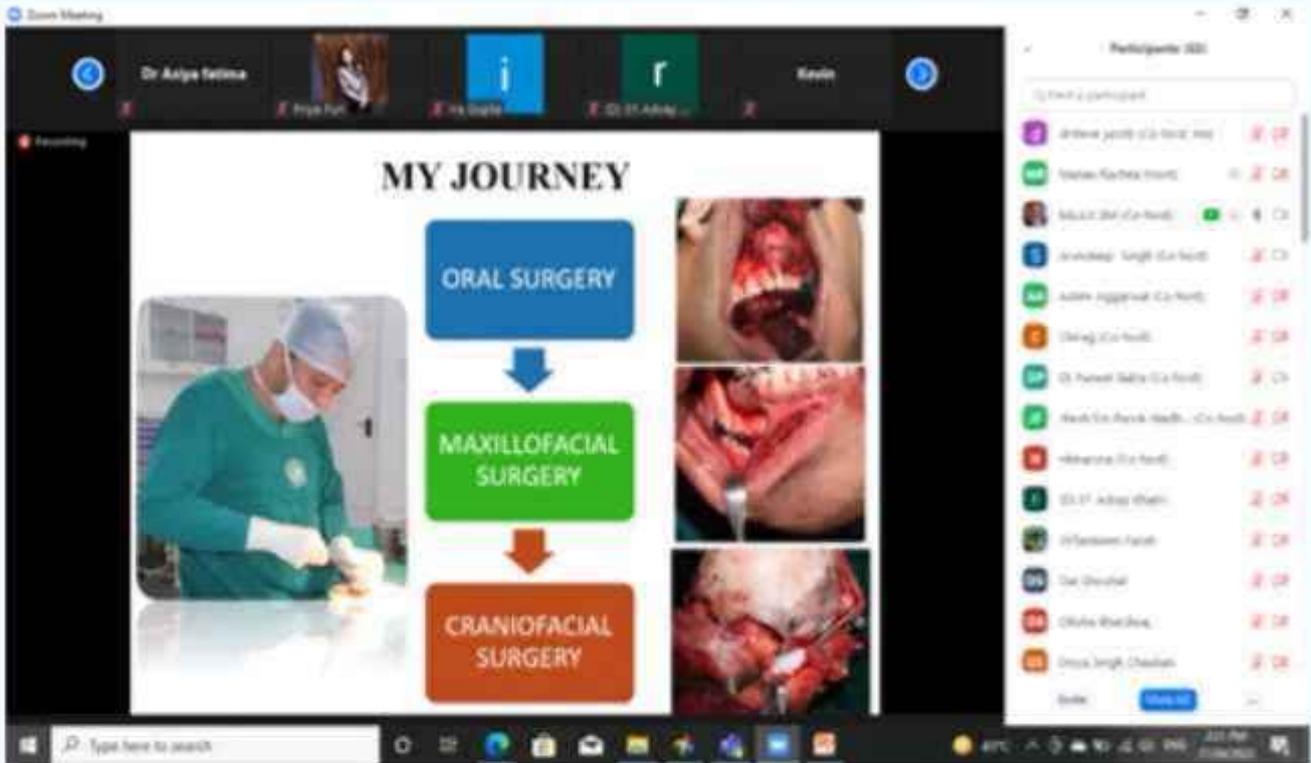


Faridabad, Haryana, India

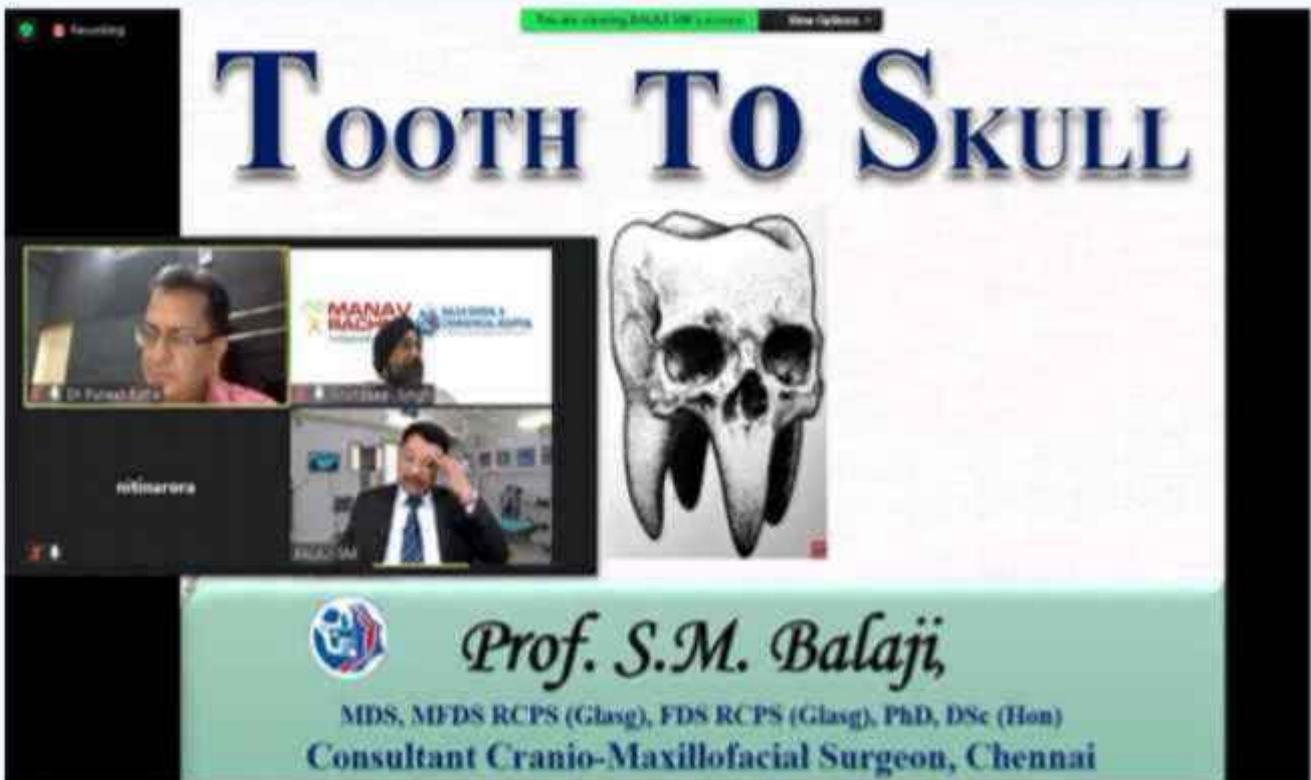
Campus Boys Hostel- 2 Manav Rachna International Institute of Research and Studies, Gadsakhur Basti Village, Rocky Area, Faridabad, Haryana 121004, India  
Lat 28.450003°  
Long 77.287244°  
23/02/22 09:49 AM

Expert talks to celebrate Women Heart Health Month, organized by Dept. of OralPathology, General Medicine and General Surgery on 22nd February 2022

Online webinar on 29.04.2022 by Dept. of Orthodontics



Dr S M Balaji explaining about his journey as an oral surgeon



Dr.S M Balaji clarifying the queries which were put forth by the participants.



**Final year BDS students attending webinar**

**ManavRachna Centre for Dental Excellence organized a MASTER CLASS Thursday on 16th June 2022, on Topic "LASERS IN DENTISTRY" by Dr. Vijay Mathur BDS students attending webinar**



**PG STUDENTS WITH THE GUEST SPEAKER DR. VIJAY MATHUR**



**ALL the Senior faculty members presenting Sapling to the Guest speaker**

### **Social Health Initiatives**

MRDC has always been on the forefront for working towards the betterment of the poor and underserved members of the society. The institute makes an all-out effort to provide Consultancy to Socially and Economically Weaker Sections of the Society. We now illustrate some of our initiatives

#### **1. Faridabad Smiles – Feb to November 2022**

Manav Rachna Dental College is pledged to the service of the underprivileged. Being a Healthcare Institution, we believe in the principle of 'Universal Health Coverage'. The ideal dentist to population ratio should be 1:7500, however in India this is around 1:10,000 going upto even 1:30,000 in rural areas. Lack of affordable dental care services drove us to arrive at a solution to provide quality, cost-effective, accessible dental care to the underprivileged living mainly in rural areas.

To achieve this Manav Rachna Dental college launched 'Faridabad Smiles' Dental Outreach Program. This is the flagship program of the Department of Public Health Dentistry, Manav Rachna Dental College, running successfully for the past 15 years. Under this program 6 camps are conducted weekly in Rural areas of Faridabad District. The camp sites and beneficiary villages are identified a week prior by a dedicated camp coordinator. This is done by liaising with local leaders and educating them to spread the word through their community so that there should be maximum utilization of the dental screening services. Free Dental Screening camp is then conducted in the identified community. Those who have positive dental findings are educated and motivated to seek treatment. Those who are referred to our institution to seek treatment at MRDC are provided free bus service to and fro from the institution. In the year 2021-22 over 100 such camps were conducted which screened approximately 3500 patients.

### 1. Raising Awareness on Menstrual Hygiene in association with Unicharm – 3rd Feb 2022:

Manav Rachna Dental College regularly conducts sessions on raising awareness on Menstrual Hygiene. This year the talk was conducted by the Department of Public Health Dentistry on 3rd Feb 2022 in collaboration with Global Hunt NGO on 03.02.22 at 10:00 am on Microsoft teams for the interns and students and faculty of the department.

Raising awareness on this topic is very essential especially among young adults. Speaker for the program was Ms. Anita Sukhwai CSR executive, Unicharm. She presented and explained very well about



menstrual hygiene queries that were also answered during the session. A total of 40 participants from Manav Rachna Dental College attended the session including students and faculty. Enthusiasm and rigor was palpable among all the students and participants.

As a follow up to this program we also collaborated with Dr. OP Bhalla Foundation and Unicharm (Parent company of Sofy and Mamy Poko Pants) to help us further our initiative of menstrual hygiene and sanitary napkin distribution. The first session was held at GSSS Dayalpur. 800 napkins were distributed and the Students were sensitized about menstrual hygiene.

### 3. International Women's Day – 7th March 2022

Department of Public Health Dentistry organized a Women's only Dental Awareness and Screening Drive on International Women's Day in association with Nav Srishti Foundation, Palla, Faridabad. Nav Srishti foundation has on ground presence in nearly 900 households involving almost 1,20,000 women, where they support women self-help groups and were instrumental in conducting door to door awareness for the

maximum involvement of women in this program. The theme this year International Women's Day was to #BreakTheBias. This entails breaking the gender bias in health care too and to assist women to be in a position of power to make informed decisions about their health. It is well known that in rural areas



especially, the health of the men of the households takes precedence over that of the women. Oral health education was given to four different batches of women. The topics covered were common oral health problems and their prevention, changes in oral health of women at various stages of life such as puberty, pregnancy and menopause, menstrual and general hygiene. Total number of patients screened were 131 and another 60 received Sanitary Napkin packs. The women responded well to the program and realized the importance of focusing on their health too along with the health of their family. The message of breaking the bias on women's day was well conveyed to them.

#### 4. Observing World Oral Health Day – 20th March 2022

World oral health day is celebrated every year on the 20th of March to reiterate the importance of oral health in the community. The theme for the year was Be Proud of Your Mouth.

In a bid to make people value and take care of their oral health and to make the right decisions to protect it, we at the department of Public Health Dentistry, Manav Rachna Dental College, conducted a series of thought provoking and impactful events.

A field visit for underprivileged Children from **Prakashdeep Foundation** was conducted, where they visited the dental college, received oral health education and understood the importance of regular dental check-ups. They then participated in a poster competition on the theme "Be Proud of your Mouth" which gave them an opportunity to reproduce on canvas, their understanding of good oral health. All stationery, colours and art sheets were provided by Manav Rachna Dental College. The event was graced by Mrs Satya Bhalla, Chief Patron MREI, Dr. Arundeeep Singh, Principal MRDC, Dr. Ashim Agarwal, Vice Principal MRDC and Dr. Meena Jain, HOD, Department of Public Health Dentistry, MRDC. The children used their imagination and made very innovative educational posters. Satya ma'm very kindly judged the posters and 3 posters were awarded best poster and 2 were given consolation certificates. The children were then given refreshments. The whole event was met with a lot of enthusiasm by the children and organizers alike.

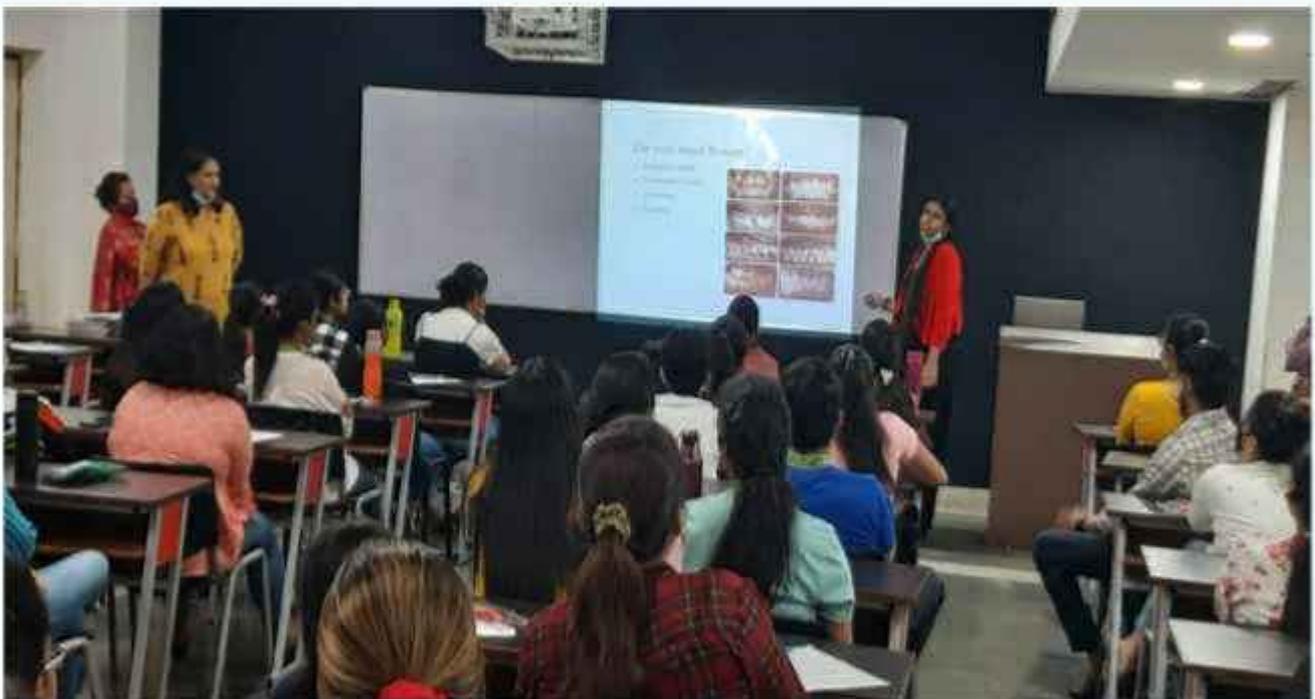
They say, charity begins at home, so our next session for the day was organized for our very own class IV staff of the entire MRU. In line with the World Health Organization's mission of Universal Health Coverage, this event was aimed at **sensitization of Class IV staff towards Oral Health Care** and dissemination of this information in their communities across villages in Faridabad. They were trained to become Community Coordinators for Manav Rachna Dental College and aid in conducting Public Outreach Programs for better availability of oral health care to underprivileged sectors. This event was chaired by our respected Principal Dr Arundeeep Singh who also interacted with the audience and encouraged them to actively participate in oral health care programs.





## 5. Improving Health Seeking Behaviour in College going students – 19th April 2022

Dental Health is an oft neglected factor in general. People do not seek dental care unless it's not too late and does not start causing pain and discomfort. By such time the problem has increased and the tangible and intangible costs of the treatment increases. Thus, in order to motivate college going students to seek dental care and to develop positive health seeking behavior among them, we organized a Dental Health Education Seminar for young college going students. Led with the audience and encouraged them to actively participate in oral health care programs.



## 6. Oral Health Community Camp – SGM Nagar – 4th June 2022

Oral health is extremely important for general health. To reiterate the importance of oral health in the community, a special awareness drive was held in the marginalized areas of SGM Nagar, Faridabad in association with Himachal Welfare Association. The drive included free dental check up and dental health education for the locals living in that area. The program was covered by the local media.



## 7. Special Camp for Senior Citizens – 22nd June 2022

Old age brings with itself many health problems. Dental problems stemming from missing teeth, mobile teeth, dryness of mouth etc. need to be addressed on priority. In order to address this problem, the Department of Public Health Dentistry took part in a Mega Health Camp organized by OP Bhalla Foundation in association with Senior Citizens Club, Sector 21, Faridabad.

Services like dental check-up, Physiotherapy counselling and sessions and Dietary counselling were provided in the camp.



## CHAPTER-4

### ACADEMIC CALENDAR

Manav Rachna International Institute of Research & Studies (Deemed to be University)  
Academic Calendar: 2021-22

| <b>Academic Calendar for the First Semester Only (August 2021 -January 2022)</b> |  |                          |                   |   |
|--|--|--------------------------|-------------------|---|
|  |  |                          |                   | <b>Date:02-08-2021</b>  |
| Sr.No.   | Activity   | 3 Week Based Orientation |                   | Responsibility  |
| 1  | <b>Start of Classes</b>  | 23-08-2021               |                   |   |
| 1.2  | <b>Forwarding of Roll List to Dept. by Registrar Office</b>  | 19-08-2021               |                   | Registrar Office  |
| 1.3  | Submission of list of Mentors and Mentees to Asso. Dean Acad   | 20-08-2021               |                   | Respective HoD  |
| 1.4  | Preparation of the Time Table, and creation of Teams/Groups on MsTeams   | 21-08-2021               |                   | Time Table Inch(Dept.)  |
| 1.5  | <b>Orientation Program of the first year students</b>  | 23-08-2021               | 10/9/2021         | Respective mentors  |
| 1.6  | <b>Bridge Courses</b>  | 13-09-2021               | 24-09-2021        |   |
| 1.7  | Uploading of the Time Table and Teaching plan on EMS with information about Mode of Delivery by faculty members/ teachers. | <b>22-09-2021</b>        |                   | Respective Dept. ERP Coordinator/HoD                          |
| 1.8  | Course Registration on EMS by students.  | <b>22-09-2021</b>        | <b>23-09-2021</b> | Students under supervision of mentors                         |
| 1.9  | Approval of courses registered by students on ERP  | 24-09-2021               | 25-09-2021        | Respective HoD  |
| 2  | Classes (Monday to Friday) with continuous Class Assessment  | 27-09-2021               | 12/11/2021        | Respective faculty under regular monitoring by respective HoD |
| 3  | <b>First Sessional Tests</b>   | 13-11-2021               | 19-11-2021        | Department  |
| 3.1  | Course Delivery /Faculty feedback - 1(Turn1) to be given by students   | 13-11-2021               | 19-11-2021        | Departmental ERP Coordinators                                 |
| 3.2  | Date sheet/Schedule of the first sessionals to be notified by respective departments on or before                          | 5/11/2021                |                   | Respective Dean's Office with copy to Dean Academics and CoE  |
| 3.3  | Completion of Evaluation of first sessionals and posting of awards on EMS  | 24-11-2021               |                   | Respective faculty members/ HoDs                              |
| 4  | Deposit of second Installment of Fee   | 15-11-2021               |                   |   |
| 5  | Classes (Monday to Friday) with continuous Class Assessment  | 22-11-021                | 31-12-2021        | Respective faculty under regular monitoring by respective HoD |
| 6  | <b>Second Sessional Tests</b>  | 03-01-022                | 8/1/2022          | Department  |

|      |   |            |            |   |
|------|---|------------|------------|---|
| 6.1  | Course/Faculty Feedback 2 (TURN 2) - To be given by students  | 03-01-2022 | 8/1/2022   | Respective Departmental ERP Coordinators                                      |
| 6.2  | Date sheet/Schedule of second sessionals to be notified by respective departments on or before  | 27-12-2021 |            | Respective Dean's Office with copy to Dean Academics and CoE                  |
| 6.3  | Completion of Evaluation and posting of awards on EMS   | 10-01-2022 | 12/1/2022  | Respective Faculty members/ teachers  |
| 7    | Classes with Revision and Doubt Clearing Sessions   | 10/1/2022  | 12/1/2022  |   |
| 8    | <b>End of Semester Classes</b>  | 12/1/2022  |            |   |
| 8.1  | <b>List of Eligible Students on the basis of required min. attendance on or before</b>  | 13-01-2022 |            | Registrar Office  |
| 8.2  | Submission of Complete Continuous Assessment/Internal Marks to CoE on or before   | 14-01-2022 |            | HoDs/faculty  |
| 8.3  | Course Exit Feedback for CO Attainment and SSS - To be given by Students (feedback on Curricula and Generic Facilities)<br>Feedback on Curricula - To be given by Faculty members | 15-01-2022 | 19-01-2022 | Respective Departmental ERP Coordinators under supervision of respective HoDs |
| 9    | <b>End Semester Practical Examination</b>   | 15-01-2022 | 19-01-2022 | Department  |
| 9.1  | Date sheet/Schedule for practical exams to be notified by respective departments on or before   | 7/1/2022   |            | Respective HoDs/Deans   |
| 9.2  | Submission of awards of final practicals to CoE on or before  | 21-01-2022 |            | Respective Departmental Practical Exam coordinator                            |
| 10   | Submission of internal evaluation for Open Electives/Value Added courses to central MOOC Coordinator  | 14-01-2022 |            | Dept. MOOC Coordinator/HoD  |
| 11   | <b>End Semester Theory Examination</b>  | 22-01-2022 | 31-01-2022 |   |
| 11.1 | Date sheet/Schedule to be notified by CoE on or before  | 5/1/2022   |            | CoE   |
| 11.2 | Completion of Evaluation and submission of marks to CoE on or before  | 1/2/2022   | 4/2/2022   | Respective Supdt. Evaluation  |
| 11.3 | Showing of Answer Sheets of End Semester Examination  | 7/2/2022   | 8/2/2022   | HoDs  |



**Department of Physiotherapy Academic Calendar for the BPT and MPT 1st year for session  
2021-22**

| Sr.No | Activity  | From              | To                |
|-------|---|-------------------|-------------------|
| 1     | <b>Start of Session</b>   | 23-08-2021        | 2/5/2022          |
| 1.1   | <b>Orientation week</b>   | 23-08-2021        | 27-08-2021        |
| 1.2   | Enrolment of students and sharing mentor mentee details   | 23-08-2021        | 27-08-2021        |
| 1.3   | Submission of list of Mentors and Mentees to Academic Office (Updation) (Vertical Mentoring)                              | 31-08-2021        |                   |
| 1.4   | Preparation and submission of Teaching Load to Acad. Office for approval  | 27-08-2021        |                   |
| 1.5   | Preparation of the Time Table   | 27-08-2021        |                   |
| 1.6   | Sharing of Information about the coming session, courses and mentor-mentee sessions by mentors to their mentees           | 23-08-2021        | 27-08-2021        |
| 1.7   | Uploading of the Time Table and Teaching plan on EMS with information about Mode of Delivery by faculty members/ teachers | 27-08-2021        | 31-08-2021        |
| 1.8   | Course Registration on EMS by students  | 23-08-2021        | 31-08-2021        |
| 1.9   | Approval of courses registered by students on EMS   | 23-08-2021        | 31-08-2021        |
| 2     | Classes (Monday to Friday and Working Saturdays) with continuous Class Assessment With updating the same on EMS.          | 1/9/2021          | 14-01-2022        |
| 2.1   | Datesheet/Schedule of first sessional to be notified by the department on/before  | 27-12-2021        | 31-12-2021        |
| 3     | <b>First Sessional Exam (Theory and Practical)</b>  | <b>17-01-2022</b> | <b>21-01-2022</b> |
| 3.1   | Course Delivery /Faculty feedback-1 (Turn1) to be given by students   | 17-01-2022        | 21-01-2022        |

|      |  |            |            |
|------|--|------------|------------|
| 3.2  | Completion of Evaluation of first sessionals and posting of awards on EMS  | 21-01-2022 | 28-01-2022 |
| 4    | Classes (Monday to Friday and Working Saturdays) with continuous Class Assessment With updating the same on EMS. | 24-01-2022 | 16-03-2022 |
| 4.1  | Datesheet/Schedule of Second sessional to be notified by the department on/before                                | 14-03-2022 | 18-03-2022 |
| 5    | <b>Second Sessional Exam (Theory and Practical)</b>  | 1/4/2022   | 7/4/2022   |
| 5.1  | Course Delivery /Faculty feedback-2 (Turn 2) to be given by students   | 1/4/2022   | 7/4/2022   |
| 5.2  | Completion of Evaluation of Second sessionals and posting of awards on EMS                                       | 7/4/2022   | 15-04-2022 |
| 6    | <b>Deposition of fee installment</b>   | 30-04-2022 |            |
| 7    | Classes (Monday to Friday and Working Saturdays) with continuous Class Assessment With updating the same on EMS. | 8/4/2022   | 26-05-2022 |
| 7.1  | Datesheet/Schedule of Pre-Liminary Examination to be notified by the department on/before                        | 16-05-2022 |            |
| 8    | <b>Pre-liminary Examination (Theory and Practical)</b>   | 27-05-2022 | 3/6/2022   |
| 8.1  | Completion of Evaluation of Pre-liminary Examination and posting of awards on EMS                                | 8/6/2022   |            |
| 8.2  | Classes with Revision and Doubt Clearing Sessions  | 4/6/2022   | 6/6/2022   |
| 9    | <b>List of Eligible Students on the basis of required min. attendance on or before</b>                           | 9/6/2022   |            |
| 10.1 | Submission of Complete Continuous Assessment/ Internal Marks to COE on or before                                 | 8/6/2022   | 15-06-2022 |
| 11   | <b>End of Teaching / Academic Session</b>  | 27-05-2022 |            |

|      |   |            |            |
|------|---|------------|------------|
| 12   | Date sheet/Schedule to be notified by COE on or before  | 23-05-2022 | 27-05-2022 |
| 13   | End Semester Practical Exams  | 8/6/2022   | 15-06-2022 |
| 14   | Course Exit Feedback for CO Attainment and SSS - To be given by Students (feedback on Curricula and Generic Facilities)<br><br>Feedback on Curricula - To be given by Faculty members                                     | 8/6/2022   | 15-06-2022 |
| 15   | <b>Final University Theory Examination</b>  | 22-06-2022 | 5/7/2022   |
| 15.1 | Completion of Evaluation and submission of marks to COE on or before  | 11/7/2022  |            |
| 15.2 | Showing of Answer Sheets of Annual Examination  | 13-07-2022 |            |
| 15.3 | Declaration of Results of Annual Examination on or before   | 18-07-2022 |            |
| 16   | Submission of Complete Course Files (with course Outcome attainment computation and analysis), Mentor-Mentee files (including their achievements, academic progression) to respective HoD and from HoD to office of IQAC. | 22-07-2022 |            |
| 17   | Submission of Mentor-Mentee Files (Including their achievements, Academic Progression), ATR on Advanced and Slow Learners to respective HoD   | 25-07-2022 |            |
| 18   | Submission of Mentor-Mentee Files (Including their achievements, Academic Progression), ATR on Advanced and Slow Learners by respective HoDs to IQAC  | 27-07-2022 |            |
| 19   | Start of Next Semester  | 1/8/2022   |            |
| 20   | Notification of Academic Calendar for Next Semester   | 1/7/2022   |            |

| <b>Academic Calendar for the Third Semester Only</b> |   |                  |                  |   |
|--|---|------------------|------------------|---|
| <b>Sr. No.</b>                                       | <b>Activity</b>   | <b>From</b>      | <b>To</b>        | <b>Responsibility</b>                                   |
| <b>1</b>   | <b>Start of Classes</b>   | 2-Aug-21         |                  |   |
| <b>2</b>   | <b>Result Analysis of previous semester</b>   | <b>13-Aug-21</b> | <b>17-Aug-21</b> | Respective HoD  |
| 2.01   | Course-Wise Result Analysis of previous semester  | 13-Aug-21        | 17-Aug-21        | Respective HoD  |
| 2.02   | Submission of result analysis report and its ATR to IQAC latest by  | 20-Aug-21        |                  | Respective HoD  |
| <b>3</b>   | <b>Submission of list of Mentors and Mentees to Asso. Dean Acad.(Updation)</b>  | <b>15-Jul-21</b> |                  | Respective HoD  |
| <b>4</b>   | <b>Academic Planning</b>  |                  |                  |   |
| 4.01   | Preparation and submission of Teaching Load to Asso. Dean Acad. For approval by Dean Academics                            | 15-07-2021       |                  | Respective Dean's Office / HoD                          |
| 4.02   | Preparation of Time Table Latest by   | 19-07-2021       |                  | Time Table Inch(Dept.)                                  |
| 4.03   | Sharing of Information about the coming session, courses and mentor-mentee sessions by mentors to their mentees latest by | 26-07-2021       |                  | Respective mentors                                      |
| 4.04   | Uploading of the Time Table and Teaching plan on EMS with information about Mode of Delivery by faculty members/ teachers | 26-07-2021       | 27-07-2021       | Respective Dept. EMS Coordinator/HoD                    |
| 4.05   | Creation of Teams/Groups on MS Teams for online classes   | 26-07-2021       | 27-07-2021       | Respective Course Coordinators in consultation with HoD |
| <b>5</b>   | <b>Course Registration</b>  |                  |                  |   |
| 5.01   | Course Registration on EMS by students.   | 28-07-2021       | 29-07-2021       | Students under supervision of mentors                   |

|             |   |                   |                   |   |
|-------------|---|-------------------|-------------------|---|
| 5.02        | Approval of courses registered by students on EMS   | 29-07-2021        | 30-07-2021        | Respective HoD  |
| 5.03        | Tagging of approved registered students on Teams latest by  | 30-07-2021        | 31-07-2021        | Respective Teachers   |
| <b>6</b>    | <b>Conduct of classes, feedback and evaluation</b>  |                   |                   |   |
| 6.01        | Orientation Program   | 2/8/2021          | 4/8/2021          | Respective HoD  |
| 6.02        | Classes (Monday to Friday) with continuous Class Assessment   | 5/8/2021          | 17-09-2021        | Respective faculty under regular monitoring by respective HoD |
| 6.03        | <b>First Sessional Tests</b>  | <b>18-09-2021</b> | <b>24-09-2021</b> | Respective HoDs in consultation with Deans and CoE            |
| 6.04        | Course Delivery /Faculty feedback - 1(Turn1) to be given by students  | 18-09-2021        | 24-09-2021        | Departmental EMS Coordinators                                 |
| 6.05        | Date sheet/Schedule of the first sessionals to be notified by respective departments on or before:  | 10/9/2021         |                   | Respective Dean office, with a copy to Dean Academics and CoE |
| 6.06        | Completion of Evaluation of first sessionals and posting of awards on EMS   | 25-09-2021        | 28-09-2021        | Respective faculty members/teachers                           |
| 6.07        | Identification and Notification of Advanced and Slow Learners alongwith Schedule of activities planned including remedial classes for slow learners | 30-09-2021        |                   |   |
| 6.08        | Classes (Monday to Friday) with continuous Class Assessment   | 27-09-2021        | 19-11-2021        | Respective faculty under regular monitoring by respective HoD |
| <b>6.09</b> | <b>Second Sessional Tests</b>   | 20-11-2021        | 3/12/2021         | Respective HoDs in consultation with Deans and CoE            |

|             |   |                  |                  |   |
|-------------|---|------------------|------------------|---|
| 6.1         | Course/Faculty Feedback 2 (TURN 2) -<br>To be given by students   | 20-11-2021       | 26-11-2021       | Departmental EMS Coordinators   |
| 6.11        | Date sheet/Schedule of second sessionals to be notified by respective departments on or before  | 12/11/2021       |                  | Respective Dean's office, with a copy to Dean Academics and CoE               |
| 6.12        | Completion of Evaluation and posting of awards on EMS   | 27-11-2021       | 30-11-2021       | Respective Faculty members/ teachers  |
| 6.13        | Classes with Revision and Doubt Clearing Sessions   | 29-11-2021       | 1/12/2021        | Respective Departmental ERP Coordinators                                      |
| <b>6.14</b> | <b>End of Semester Classes</b>  | 1/12/2021        |                  |   |
| <b>7</b>    | <b>Deposit of 2nd Installment of Fee for AY 2021-22 up to</b>   | 15-11-2021       |                  | Students/ mentors/ HoDs   |
| <b>8</b>    | <b>End Semester Examination, its preparations, course exit and curriculum feedback</b>  |                  |                  |   |
| <b>8.01</b> | <b>List of Eligible Students on the basis of required min. attendance on or before</b>  | 3/12/2021        |                  | Registrar's Office  |
| 8.02        | Submission of Complete Continuous Assessment/Internal Marks to CoE on or before   | 2/12/2021        | 7/12/2021        | HoDs/faculty  |
| 8.03        | Course Exit Feedback for CO Attainment and SSS - To be given by Students (feedback on Curricula and Generic Facilities)<br><br>Feedback on Curricula - To be given by Faculty members | 30-11-2021       | 1/12/2021        | Respective Departmental EMS Coordinators under supervision of respective HoDs |
| <b>8.04</b> | <b>End Semester Practical Examination</b>   | <b>4/12/2021</b> | <b>8/12/2021</b> | Respective HoDs in consultation with their Deans and CoE                      |
| 8.05        | Date sheet/Schedule for practical exams to be notified by respective departments on or before   | 26-11-2021       |                  | Respective HoDs/Deans   |

|             |  |            |            |  |
|-------------|--|------------|------------|--|
| 8.06        | Submission of awards of final practicals to CoE on or before   | 14-12-2021 |            | Respective Departmental Practical Exam coordinator     |
| 8.07        | Submission of continuous Assessment / Internal Awards for Open Electives/ Value Added Courses to Central MOOC Coordinator                            | 14-12-2021 |            | Department MOOC Coordinator                            |
| 8.08        | Submission of continuous assessment/ internal awards to coe on or before   | 17-12-2021 |            | Respective HoDs, in consultation with respective Deans |
| <b>8.09</b> | <b>End Semester Theory Examination</b>   | 11/12/2021 | 24-12-2021 | CoE  |
| 8.1         | Date sheet/Schedule to be notified by CoE on or before   | 4/12/2021  |            | CoE  |
| 8.11        | Completion of Evaluation and submission of marks to CoE on or before   | 33-12-2021 |            | Respective Supdt. Evaluation                           |
| 8.12        | Showing of Answer Sheets of End Semester Examination   | 3/1/2022   | 4/1/2022   | HoDs   |
| <b>9</b>    | <b>Result and submission of reports of outcome of semester</b>   |            |            |  |
| 9.01        | Declaration of Results of Semesters Examination on or before   | 7/1/2022   |            | CoE  |
| 9.02        | Submission of detailed reports of Value-Added Courses conducted, to IQAC on before   | 4/12/2021  |            | Respective HoDs / Deans                                |
| 9.03        | Submission of COMPLETE Course Files (with course Outcome attainment computation and analysis) by respective course Coordinator to HoD                | 10/1/2022  | 12/1/2022  | Concerned Faculty Mentor/ Respective HoDs              |
| 9.04        | Submission of Mentor-Mentee Files (Including their achievements, Academic Progression), ATR on Advanced and Slow Learners to respective HoD          | 10/1/2022  | 12/1/2022  | Mentors/ Faculty / HoD                                 |
| 9.05        | Submission of Mentor-Mentee Files (Including their achievements, Academic Progression), ATR on Advanced and Slow Learners by respective HoDs to IQAC | 15-01-2022 |            | HoDs   |
| <b>10</b>   | <b>Start of next Semester</b>  |            |            |  |
| 10.01       | Notification of Academic Calendar for next Semester  | 10/12/2021 |            | Assoc. Dean Academics                                  |

|             |  |            |            |  |
|-------------|--|------------|------------|--|
| 8.06        | Submission of awards of final practicals to CoE on or before   | 14-12-2021 |            | Respective Departmental Practical Exam coordinator     |
| 8.07        | Submission of continuous Assessment / Internal Awards for Open Electives/ Value Added Courses to Central MOOC Coordinator                            | 14-12-2021 |            | Department MOOC Coordinator                            |
| 8.08        | Submission of continuous assessment/ internal awards to coe on or before   | 17-12-2021 |            | Respective HoDs, in consultation with respective Deans |
| <b>8.09</b> | <b>End Semester Theory Examination</b>   | 11/12/2021 | 24-12-2021 | CoE  |
| 8.1         | Date sheet/Schedule to be notified by CoE on or before   | 4/12/2021  |            | CoE  |
| 8.11        | Completion of Evaluation and submission of marks to CoE on or before   | 33-12-2021 |            | Respective Supdt. Evaluation                           |
| 8.12        | Showing of Answer Sheets of End Semester Examination   | 3/1/2022   | 4/1/2022   | HoDs   |
| <b>9</b>    | <b>Result and submission of reports of outcome of semester</b>   |            |            |  |
| 9.01        | Declaration of Results of Semesters Examination on or before   | 7/1/2022   |            | CoE  |
| 9.02        | Submission of detailed reports of Value-Added Courses conducted, to IQAC on before   | 4/12/2021  |            | Respective HoDs / Deans                                |
| 9.03        | Submission of COMPLETE Course Files (with course Outcome attainment computation and analysis) by respective course Coordinator to HoD                | 10/1/2022  | 12/1/2022  | Concerned Faculty Mentor/<br>Respective HoDs           |
| 9.04        | Submission of Mentor-Mentee Files (Including their achievements, Academic Progression), ATR on Advanced and Slow Learners to respective HoD          | 10/1/2022  | 12/1/2022  | Mentors/ Faculty / HoD                                 |
| 9.05        | Submission of Mentor-Mentee Files (Including their achievements, Academic Progression), ATR on Advanced and Slow Learners by respective HoDs to IQAC | 15-01-2022 |            | HoDs   |
| <b>10</b>   | <b>Start of next Semester</b>  |            |            |  |
| 10.01       | Notification of Academic Calendar for next Semester  | 10/12/2021 |            | Assoc. Dean Academics                                  |

| Academic Calendar for the Fifth Semester and Onwards Only |  |             |            |                             |
|---|--|-------------|------------|-----------------------------|
| Sr.No.  | Activity   | From        | To         | Teaching Day                |
| 1   | Start of Classes   | 15-07-2021  |            |                             |
| <b>Pre-Semester Preparation Work</b>                      |  |             |            |                             |
| 2   | <b>Result Analysis of previous semester, ATR and identification Advanced and Slow Learners</b>   | 21-06-2021  | 1/7/2021   | Respective HoD              |
| 2.1   | Course Wise Result Analysis of previous semester and its ATR   | 21-06-2021- | 25-06-2021 | Respective HoD              |
| 2.2   | Submission of Result Analysis Report and its ATR to IQAC latest by   | 28-06-2021  |            | Respective HoD              |
| 2.3   | Identification and Notification of Advanced Slow Learners along with schedule of activities planned including remedial classes for slow learners | 05-07-2021- | 8/7/2021   | Respective HoD              |
| 3   | <b>Identification and Approval of Open/Interdisciplinary Electives and Value-added Courses</b>   | 21-06-2021- | 1/7/2021   |                             |
| 3.1   | Submission of list Open Electives/Value Added Course with syllabus and Faculty-incharge with central MOOC Coordinator latest by                  | 25-06-2021  |            | Dept. MOOC Coordinator/HoD  |
| 3.2   | Approval of Open Electives/Value Added Course with syllabus and Faculty-in charge by Dean academics latest by                                    | 1/7/2021    |            | Central MOOC Coordinator    |
| 4   | <b>Submission of List of Mentors and Mentees to Asso. Dean Acad.(Updation)latest by</b>  | 1/7/2021    |            | Respective HoD              |
| 5   | <b>Perspective Plan and Activity Calendar of Departments and other centres/sections of university</b>  |             |            |                             |
| 6   | <b>Academic Planning</b>   | 1/7/2021    |            | 9-Jul-21                    |
| 6.1   | Preparation and Submission of teaching load to Asso. Dean Acad. For approval by Dean Academics latest by   | 1/7/2021    |            | Respective Deans office/HoD |
| 6.2   | Preparation of the Time Table latest by  | 5/7/2021    |            | Time Table Inch(Dept.)      |
| 6.3   | Sharing of information about the coming session, courses and mentor-mentee sessions by mentors their mentees latest by                           | 6/7/2021    |            | Respective mentors          |

|     |  |            |            |   |
|-----|--|------------|------------|---|
| 6.4 | Uploading of the Time Table and Teaching Plan on EMS with information about Mode of Delivery by faculty members/teachers | 6/7/2021   | 9/7/2021   | Respective Dept. EMS Coordinator/HoD                          |
| 6.5 | Creation of Teams/Groups on MS for online classes  | 6/7/2021   | 9/7/2021   | Respective coordinators in consultations with their HoDs      |
| 7   | <b>Course Registration</b>   |            |            |   |
| 7.1 | Course Registration on EMS by students   | 10/7/2021  | 14-07-2021 | Students under supervision of mentors                         |
| 7.2 | Approval of courses registered by students on EMS  | 15-07-2021 | 17-07-2021 | Respective HoDs   |
| 7.3 | Tagging of Approved Registered Students on Team latest by  | 17-07-2021 |            | Respective Teachers   |
| 8   | <b>Conduct of Classes, Feedback and Evaluation</b>   |            |            |   |
| 8.1 | Orientation Programme  | 15-07-2021 | 17-07-2021 | Respective Team   |
| 8.2 | Classes (Monday to Friday) with continuous Class Assessment  | 19-07-2021 | 3/9/2021   | Respective faculty under regular monitoring by respective HoD |
| 8.3 | <b>First Sessional Tests</b>   | 4/9/2021   | 10/9/2021  | Respective HoD in consultation with their Deans and CoE       |
| 8.4 | Course Delivery/Faculty feedback-1(Turn-1) to be given by students   | 4/9/2021   | 10/9/2021  | Departmental EMS Coordinators                                 |
| 8.5 | Date sheet/Schedule of sessionals to be notified by respective departments on or before                                  | 27-08-2021 |            | Respective Dean's office with copy to Dean academics and CoE  |
| 8.6 | Completion of Evaluation of first sessionals and posting of awards on EMS  | 10/9/2021  | 14-09-2021 | Respective faculty members/HoDs                               |
| 8.7 | Classes (Monday to Friday) with continuous Class Assessment  | 13-09-2021 | 3/11/2021  | Respective Faculty under regular monitoring by respective HoD |
| 8.8 | <b>Second Sessional Tests</b>  | 8/11/2021  | 13-11-2021 | Respective HoD in consultation with their Deans and CoE       |

|             |   |                   |                   |  |
|-------------|---|-------------------|-------------------|--|
| <b>8.9</b>  | Course/Faculty Feedback 2 (Turn 2) - To be given by students  | <b>8/11/2021</b>  | <b>13-11-2021</b> | <b>Respective Departmental EMS Coordinators</b>                                      |
| <b>8.1</b>  | Date sheet/Schedule of second sessionals to be notified by respective departments on or before  | <b>1/11/2021</b>  |                   | <b>Respective Dean's Office with copy to Dean Academics and CoE</b>                  |
| <b>8.11</b> | Completion of Evaluation and posting of awards on EMS   | <b>15-11-2021</b> | <b>17-11-2021</b> | <b>Respective Faculty members/teachers</b>   |
| <b>8.12</b> | Classes with Revision and Doubt Clearing Sessions   | <b>15-11-2021</b> | <b>17-11-2021</b> | <b>Respective faculty under regular monitoring by respective HoD</b>                 |
| <b>8.13</b> | <b>End of Semester Classes</b>  | <b>17-11-2021</b> |                   |  |
| <b>9</b>    | <b>Deposit of II Installment of fee for AY 2021-22 Upto</b>   | <b>15-11-2021</b> |                   | <b>Accounts Dept. (CAD) and Respective HoDs through mentors</b>                      |
| <b>10</b>   | <b>End Semester Examination its Preparation, Course Exit and Curriculum Feedback</b>  |                   |                   |  |
| <b>10.1</b> | <b>List of Eligible Students on the basis of required min. attendance on or before</b>  | <b>15-11-2021</b> |                   | <b>Registrar Office</b>  |
| <b>10.2</b> | Submission of Complete Continuous Assessment/Internal Marks to CoE on or before   | <b>22-11-2021</b> | <b>24-11-2021</b> | <b>HoD/Faculty</b>   |
| <b>10.3</b> | Course Exit Feedback for CO Attainment and SSS - To be given by Students (feedback on Curricula and Generic Facilities)<br><br>Feedback on Curricula - To be given by Faculty Members | <b>15-11-2021</b> | <b>17-11-2021</b> | <b>Respective Departmental ERP Coordinators under supervision of respective HoDs</b> |
| <b>10.4</b> | <b>End Semester Practical Examination</b>   | <b>20-11-2021</b> | <b>25-11-2021</b> | <b>Respective HoD in consultation with their Deans and CoE</b>                       |
| <b>10.5</b> | Date sheet/Schedule for practical exams to be notified by respective departments on or before   | <b>13-11-2021</b> |                   | <b>Respective HoD/Deans</b>  |
| <b>10.6</b> | Submission of Awards of final practicals to CoE on or before  | <b>1/12/2021</b>  |                   | <b>Respective Departmental Practical Exam Coordinator</b>                            |
| <b>10.7</b> | Submission of Continuous Assessment/ Internal Awards for Open Electives/ Value Added Courses to central MOOC Coordinator  | <b>26-11-2021</b> |                   | <b>Dept. MOOC Coordinator/HoD</b>  |

|              |  |                   |                   |  |
|--------------|--|-------------------|-------------------|--|
| <b>10.8</b>  | Submission of Continuous Assessment/ Internal Awards to CoE on or before   | <b>2/12/2021</b>  |                   | <b>Respective HoD in Consultation with their Deans</b> |
| <b>10.9</b>  | <b>End Semester Theory Examination</b>   | <b>30-11-2021</b> | <b>18-12-2021</b> | <b>CoE</b>   |
| <b>10.1</b>  | Date Sheet/ Schedule to be notified by CoE on or before  | <b>24-11-2021</b> |                   | <b>CoE</b>   |
| <b>10.11</b> | Completion of Evaluation and Submission of marks to CoE on or before   | <b>27-12-2021</b> |                   | <b>Respective Supdt. Evaluation</b>                    |
| <b>10.12</b> | Showing of Answer Sheets of End Semester Examination   | <b>29-12-2021</b> | <b>30-12-2021</b> | <b>Respective HoDs/Deans</b>                           |
| <b>11</b>    | <b>Result And Submission of Reports of Outcome of Semester</b>   |                   |                   |  |
| <b>11.1</b>  | Declaration of Results of Semesters Examination on or before   | <b>4/1/2022</b>   |                   | <b>CoE</b>   |
| <b>11.2</b>  | Submission of detailed reports of Value Added courses conducted to IQAC on or before   | <b>4/12/2021</b>  |                   | <b>Respective HoDs/Deans</b>                           |
| <b>11.3</b>  | Submission of COMPLETE Course Files (with course outcome attainment computation and analysis) by respective Course Coordinator to HoD                            | <b>9/1/2022</b>   | <b>12/1/2022</b>  | <b>Course Coordinator/HoD</b>                          |
| <b>11.4</b>  | Submission of Mentor-Mentee files (including their achievements, academic progression), ATR on Advanced and Slow Learners to respective HoD                      | <b>9/1/2022</b>   | <b>12/1/2022</b>  | <b>Concerned Faculty Mentor/Respective HoD</b>         |
| <b>11.5</b>  | Submission of Mentor-Mentee files (including their achievements, academic progression), ATR on Advanced and Slow Learners by respective HoD to IQAC on or before | <b>15-01-2022</b> |                   | <b>HoDs</b>  |
| <b>12</b>    | <b>Start of next Semester</b>  |                   |                   |  |
| <b>12.1</b>  | Notification of Academic Calendar for next Semester  | <b>3/1/2022</b>   |                   |  |
| <b>12.1</b>  | Notification of Academic Calendar for next Semester  | <b>10/12/2021</b> |                   | <b>Associate Dean Academics</b>                        |

| <b>Academic Calendar for the Third Semester Only</b> |   |                  |            |  |
|--|---|------------------|------------|--|
| <b>Sr. No.</b>                                       | <b>Activity</b>   | <b>From To</b>   |            | <b>Responsibility</b>                        |
| <b>1</b>   | <b>Start of Classes</b>   | <b>13-Sep-21</b> |            |  |
| 2  | Result Analysis of previous semester  | 24-09-2021       | 28-09-2021 | HoD  |
| 2.01   | Course-Wise Result Analysis of previous semester  | 24-09-2021       | 28-09-2021 | HoD  |
| 2.02   | Submission of result analysis report and its ATR to IQAC latest by  | 1/10/2021        |            | HoD  |
| 3  | Submission of list of Mentors and Mentees to Asso. Dean Acad.(Update)   | 25-08-2021       |            | HoD  |
| <b>4</b>   | <b>Academic Planning</b>  |                  |            |  |
| 4.01   | Preparation and submission of Teaching Load to Asso. Dean Acad. For approval by Dean Academics                            | 25-08-2021       |            | Dean's Office / HoD                          |
| 4.02   | Preparation of Time Table Latest by   | 31-10-2021       |            | Time Table In-charge (Dept)                  |
| 4.03   | Sharing of Information about the coming session, courses and mentor-mentee sessions by mentors to their mentees latest by | 7/9/2021         |            | Mentors                                      |
| 4.04   | Uploading of the Time Table and Teaching plan on EMS with information about Mode of Delivery by faculty members/ teachers | 7/9/2021         | 8/9/2021   | Dept. EMS Coordinator/HoD                    |
| 4.05   | Creation of Teams/Group on MS Teams for online classes  | 7/9/2021         | 8/9/2021   | Course Coordinators in consultation with HoD |
| <b>5</b>   | <b>Course Registration</b>  |                  |            |  |
| 5.01   | Course Registration on EMS by students.   | 9/9/2021         | 10/9/2021  | Students under supervision of mentors        |
| 5.02   | Approval of courses registered by students on EMS   | 10/9/2021        | 11/9/2021  | HoD  |
| 5.03   | Tagging of approved registered students on Teams latest by  | 10/9/2021        | 11/9/2021  | Teachers                                     |
| <b>6</b>   | <b>Conduct of classes, feedback and evaluation</b>  |                  |            |  |
| 6.01   | Orientation Program   | 11/9/2021        |            | HoD  |
| 6.02   | Classes (Monday to Saturdays) with continuous Class Assessment  | 13-09-2021       | 15-10-2021 | Faculty under regular monitoring by HoD      |
| 6.03   | First Sessional Tests   | 16-10-2021       | 23-10-2021 | HoD consultation with Deans and CoE          |

|          |   |                          |            |  |
|----------|---|--------------------------|------------|--|
| 6.04     | Course Delivery /Faculty feedback -1(Turn1) to be given by students   | 16-10-2021               | 23-10-2021 | Department EMS Coordinator                             |
| 6.05     | Date sheet/Schedule of the first sessionals to be notified by respective departments on or before   | 8/10/2021                |            | Dean's office, with a copy to Dean Academics and CoE   |
| 6.06     | Completion of Evaluation of first sessionals and posting of awards on EMS   | 26-10-2021 to 30-10-2021 |            | Faculty members/teachers                               |
| 6.07     | Identification and Notification of Advanced and Slow Learners alongwith Schedule of activities planned including remedial classes for slow learners                                   | 2/11/2021                |            | Faculty members/teachers                               |
| 6.08     | Classes (Monday to Friday) with continuous Class Assessment   | 25-10-2021               | 26-11-2021 | Faculty under regular monitoring by HoD                |
| 6.09     | Second Sessional Tests  | 27-11-2021               | 4/12/2021  | HoD in consultation with Deans and CoE                 |
| 6.1      | Course/Faculty Feedback 2 (TURN 2) - To be given by students  | 1/12/2021                | 8/12/2021  | Department EMS Coordinator                             |
| 6.11     | Date sheet/Schedule of second sessionals to be notified by respective departments on or before  | 23-11-2021               |            | Dean's office, with a copy to Dean Academics and CoE   |
| 6.12     | Completion of Evaluation and posting of awards on EMS   | 9/12/2021                | 13-12-2021 | Faculty members/teachers                               |
| 6.13     | Classes with Revision and Doubt Clearing Sessions   | 10/12/2021               | 11/12/2021 | Department ERP Coordinators                            |
| 6.14     | End of Semester Classes   | 9/12/2021                |            |  |
| <b>7</b> | <b>Deposit of 2nd Installment of Fee for AY 2021-22 Upto</b>  | 15-11-2021               |            | Students/Mentors/HoD                                   |
| <b>8</b> | <b>End Semester Examination, its preparations, course exit and curriculum feedback</b>  |                          |            |  |
| 8.01     | List of Eligible Students on the basis of required min. attendance on or before   | 11/12/2021               |            | Registrar's office                                     |
| 8.02     | Submission of Complete Continuous Assessment/Internal Marks to CoE on or before   | 9/12/2021                | 15-12-2021 | HoD/Faculty  |
| 8.03     | Course Exit Feedback for CO Attainment and SSS - To be given by Students (feedback on Curricula and Generic Facilities)<br><br>Feedback on Curricula - To be given by Faculty members | 10/12/2021               | 11/12/2021 | Departmental EMS Coordinators under supervision of HoD |

|           |   |            |            |                                 |
|-----------|---|------------|------------|---------------------------------|
| 8.04      | Submission of continuous Assessment / Internal Awards for Open Electives/ Value Added Courses to Central MOOC Coordinator                             | 14-12-2021 |            | Department MOOC Coordinators    |
| 8.05      | Submission of continuous assessment/ internal awards to COE on or before  | 17-12-2021 |            | HoD, in consultation with Deans |
| 8.06      | End Semester Theory Examination   | 14-12-2021 | 29-12-2022 | CoE                             |
| 8.07      | Date sheet/Schedule to be notified by CoE on or before  | 4/12/2021  |            | CoE                             |
| 8.08      | Completion of Evaluation and submission of marks to CoE on or before  | 31-12-2022 |            | Supdt. Evaluation               |
| 8.09      | Showing of Answer Sheets of End Semester Examination  | 3/1/2022   | 4/1/2022   | HoD                             |
| <b>9</b>  | <b>Result and submission of reports of outcome of semester</b>  |            |            |                                 |
| 9.01      | Declaration of Results of Semesters Examination on or before  | 7/1/2022   |            | CoE                             |
| 9.02      | Submission of detailed reports of Value Added Courses conducted, to IQAC on before  | 4/12/2021  |            | HoD/Deans                       |
| 9.03      | Submission of COMPLETE Course Files(with course Outcome attainment computation and analysis) by respective course Coordinator to HoD                  | 10/1/2022  | 12/1/2022  | Concerned Faculty Mentor/HoD    |
| 9.04      | Submission of Mentor-Mentee Files (Including their achievements, Academic Progression ), ATR on Advanced and Slow Learners to respective HoD          | 10/1/2022  | 12/1/2022  | Mentors/Faculty/HoD             |
| 9.05      | Submission of Mentor-Mentee Files (Including their achievements, Academic Progression ), ATR on Advanced and Slow Learners by respective HoDs to IQAC | 15-01-2022 |            | HoD                             |
| <b>10</b> | <b>Start of next Semester</b>   |            |            |                                 |
| 10.01     | Notification of Academic Calendar for next Semester   | 10/12/2021 |            | Associate Dean Academics        |

| <b>Academic Calendar for the 2nd Semester Only(Feb-Aug 2022)</b> |  |                   |            |  |
|--|--|-------------------|------------|--|
| <b>Sr.No.</b>  | <b>Activity</b>  | <b>From</b>       | <b>To</b>  | <b>Responsibility</b>                                      |
| 1  | <b>Start of Classes</b>  | <b>28-02-2022</b> |            |  |
|  | <b>Pre Semester preparation work</b>   |                   |            |  |
| 2  | <b>Result Analysis of previous semester</b>  | 11/3/2022         | 15-03-2022 | HoD  |
| 2.1  | Course wise result analysis report and its ATR to IQAC   | 16-03-2022        |            | HoD  |
| 2.2  | Notification of Advanced and Slow learners alongwith schedule of activities planned including remedial classes for slow learners | 17-03-2022        |            | HoD  |
| 3  | <b>Submission of updated list of Mentors and Mentees to Asso. Dean Acad.</b>   | <b>25-02-2022</b> |            | HoD  |
| 4  | <b>Academic Planning</b>   |                   |            |  |
| 4.1  | Preparation and submission of updated Teaching Load to Associate Dean Acad. For approval by Dean Academics                       | 16-02-2022        |            | Dean's Office/HoDs   |
| 4.2  | Preparation of the Time Table  | 21-02-2022        |            | Department Time Table Incharge                             |
| 4.3  | mentor-mentee sessions: Sharing of information about the coming session, courses and conduct of classes                          | 25-02-2022        |            | Respective Mentors   |
| 4.4  | Uploading of the Time Table and Teaching plan on ERP with information about Mode of Delivery by faculty members/ teachers        | 21-02-2022        | 23-02-2022 | Department EMS Coordinators                                |
| 5  | <b>Course Registration</b>   |                   |            |  |
| 5.1  | Course Registration on EMS by students.  | 23-02-2022        | 24-02-2022 | Students under supervision of respective mentors           |
| 5.2  | Approval of courses registered by students on ERP  | 24-02-2022        | 26-02-2022 | Respective HoD/Center Heads                                |
| 6  | <b>Conduct of Classes, Feedback and Evaluation</b>   |                   |            |  |
| 6.1  | Classes (Monday to Friday) with continuous Class Assessment  | 28-02-2022        | 15-04-2022 | Respective teachers under regular monitoring of HoDs/Deans |
| 6.2  | First Sessional Tests  | 16-04-2022        | 22-04-2022 | Respective HoDs in consultation with Deans and CoE         |
| 6.3  | Course Delivery /Faculty feedback -I(TurnI) to be given by students  | 16-04-2022        | 22-04-2022 | Dept. EMs Coordinators                                     |

|      |   |                   |                   |  |
|------|---|-------------------|-------------------|--|
| 6.4  | Date sheet/Schedule of the first sessionals to be notified by respective departments on or before   | 1/4/2022          |                   | Respective Dean's office in consultation with CoE                  |
| 6.5  | Completion of Evaluation of first sessionals and posting of awards on EMS   | 22-04-2022        | 26-04-2022        | Respective Faculty members   |
| 6.6  | Classes (Monday to Friday) with continuous Class Assessment   | 25-04-2022        | 3/6/2022          | Respective Faculty members   |
| 6.7  | Second Sessional Tests  | 4/6/2022          | 10/6/2022         | Respective HoDs in consultation with Deans and CoE                 |
| 6.8  | Course/Faculty Feedback 2 (TURN 2) - To be given by students  | 4/6/2022          | 10/6/2022         | Dept. EMS Coordinators   |
| 6.9  | Date sheet/Schedule of second sessionals to be notified by respective departments on or before  | 21-05-2022        |                   | Respective Dean's office in consultation with CoE                  |
| 6.1  | Completion of Evaluation and posting of awards on EMS   | 10/6/2022         | 14-06-2022        | Respective Faculty members   |
| 6.11 | Classes with Revision and Doubt Clearing Sessions   | 13-06-2022        | 15-06-2022        | Respective Faculty members   |
| 6.12 | End of Semester Classes   | 15-06-2022        |                   |  |
| 7    | <b>Deposit of Installment of Fee for AY 2021-22 upto</b>  | <b>30-04-2022</b> |                   | <b>Individual Student</b>  |
| 8    | <b>End Semester Examination its Preparation, Course Exit and Curriculum Feedback</b>  |                   |                   |  |
| 8.1  | List of Eligible Students on the basis of required min. attendance on or before   | 17-06-2022        |                   | Registrar's office   |
| 8.3  | Course Exit Feedback for CO Attainment and SSS - To be given by Students (feedback on Curricula and Generic Facilities)<br><br>Feedback on Curricula - To be given by Faculty members | 20-06-2022        | 24-06-2022        | Respective Department EMS Coordinator under the Supervision of HoD |
| 8.4  | <b>End Semester Practical Examination</b>   | <b>20-06-2022</b> | <b>23-06-2022</b> |  |
| 8.5  | Date sheet/Schedule for practical exams to be notified by respective departments on or before   | 6/6/2022          |                   | HoD in consultation with Dean and CoE                              |
| 8.6  | Submission of awards of final practicals to CoE on or before  | 28-06-2022        |                   | Department practical Exams Coordinator                             |
| 8.7  | Submission of continuous Assessment / Internal Awards to CoE on or Before   | 30-06-2022        |                   |  |
| 8.8  | <b>End Semester Theory Examination</b>  | <b>29-06-2022</b> | <b>11/7/2022</b>  |  |
| 8.9  | Date sheet/Schedule to be notified by CoE on or before  | 15-07-2022        |                   | Respective Dean's office in consultation with CoE                  |
| 8.1  | Completion of Evaluation and submission of marks to CoE on or before  | 14-07-2022        |                   | Respective Supdt. Evaluation                                       |

|          |  |            |                 |                                   |
|----------|--|------------|-----------------|-----------------------------------|
| 8.11     | Showing of Answer Sheets of End Semester Examination   | 18-07-2022 | 19-07-2022      | HoD                               |
| <b>9</b> | <b>Results and submission of outcome-reports of the semester</b>   |            |                 |                                   |
| 9.1      | Results Declaration of semesters examination on or before  | 23-07-2022 |                 | CoE                               |
| 9.2      | Submission of COMPLETE Course Files (with course Outcome attainment computation and analysis), to respective HoD and from HoD to the office of IQAC. | 25-07-2022 | 26-07-2022      | HoDs                              |
| 9.3      | Submission of Mentor-Mentee Files (Including their achievements, Academic Progression), ATR on Advanced and Slow Learners to respective HoD          | 27-07-2022 | 28-07-2022      | Concerned Respective Mentors/ HoD |
| 9.4      | Submission of Mentor-Mentee Files (Including their achievements, Academic Progression), ATR on Advanced and Slow Learners by respective HoDs to IQAC | 29-07-2022 |                 | HoDs                              |
| 10       | Internship/Training of 4 Weeks   | 12/7/2022  | 6/8/2022        | HoDs                              |
| 11       | <b>Start of next Semester</b>  |            | <b>8/8/2022</b> |                                   |
| 11.1     | Notification of Academic Calendar for next Semester  | 15-07-2022 |                 | Associate Dean Academics          |

| <b>Academic Calendar for the Fourth Semester and Onwards Only(Jan-May2022)</b> |  |                  |            |                                     |
|--|--|------------------|------------|-------------------------------------|
| <b>Sr.No.</b>  | <b>Activity</b>  | <b>From</b>      | <b>To</b>  | <b>Responsibility</b>               |
| 1  | <b>Start of Classes</b>  | <b>7/1/2022</b>  |            |                                     |
| <b>Pre Semester preparation work</b>   |  |                  |            |                                     |
| 2  | <b>Result Analysis of previous semester</b>  | 12/1/2022        | 17-01-2022 | Respective HoD                      |
| 2.1  | Course wise result analysis report and its ATR to IQAC   | 18-01-2022       |            | Respective HoD                      |
| 2.2  | Notification of Advanced and Slow learners alongwith schedule of activities planned including remedial classes for slow learners                     | 22-01-2022       |            | Respective HoD                      |
| 3  | <b>Identification and Approval of Open/Interdisciplinary Electives and value-added courses</b>   |                  |            |                                     |
| 3.1  | Submission of list of Open Electives/ Value Added Course, syllabus and Faculty-incharge with central MOOC Coordinator                                | 24-12-2021       |            | Department MOOC Coordinator         |
| 3.2  | Approval of Open Electives / Value Added Courses with syllabus and faculty in-charges by Dean Academics latest by                                    | 27-12-2021       |            | Central MOOC Coordinator            |
| 4  | <b>Submission of updated list of Mentors and Mentees to Asso. Dean Acad.</b>   | 7/1/2022         |            | <b>Respective HoD</b>               |
| 5  | <b>Perspective plan/ Activity Calendar of the Departments and Centers/Sections of University (To be Shared with Assoc. Dean Academics) latest by</b> | <b>10/1/2022</b> |            | <b>Respective HoDs/Center heads</b> |
| 5.1  | Notification of University Central Activity Calendar for the semester by Dean Academics after approval from VC on or before                          | 17-01-2022       |            | Associate Dean Academics            |
| 6  | <b>Academic Planning</b>   |                  |            |                                     |
| 6.1  | Preparation and submission of Teaching Load to Asso. Dean Acad. For approval by Dean Academics   | 27-12-2021       |            | Dean's Office/HoDs                  |
| 6.2  | Preparation of the Time Table  | 07-01-2022       |            | Department Time Table Incharge      |
| 6.3  | mentor-mentee sessions: Sharing of information about the coming session, courses and conduct of  | 30-12-2021       |            | Respective mentors                  |
| 6.4  | Uploading of the Time Table and Teaching plan on ERP with information about Mode of Delivery by faculty members/ teachers                            | 7/1/2022         | 10/1/2022  | Department EMs Coordinators         |
| 6.5  | Creation of Teams/Groups on MS Teams for online Classes  | 11/1/2022        | 12/1/2022  | Respective Coordinators             |
| 7  | <b>Course Registration</b>   |                  |            |                                     |

|             |   |                   |                   |  |
|-------------|---|-------------------|-------------------|--|
| 7.1         | Course Registration on EMS by students.   | 10/1/2022         | 12/1/2022         | students under supervision of respective mentors           |
| 7.2         | Approval of courses registered by students on ERP   | 12/1/2022         | 13-01-2022        | Respective HoDs/Center Heads                               |
| 7.3         | Tagging of approved registered students on Teams latest by  | 13-01-2022        |                   | Respective teachers  |
| <b>8</b>    | <b>Conduct of Classes, Feedback and Evaluation</b>  |                   |                   |  |
| 8.1         | Classes (Monday to Friday) with continuous Class Assessment                                       | 14-01-2022        | 4/3/2022          | Respective teachers under regular monitoring of HoDs/Deans |
| <b>8.2</b>  | <b>First Sessional Tests</b>  | <b>26-02-2022</b> | <b>5/3/2022</b>   | <b>Respective Dea's office in consultation with CoE</b>    |
| 8.3         | Course Delivery /Faculty feedback -1(Turn1) to be given by students                               | 5/3/2022          | 11/3/2022         | Department EMS Coordinators                                |
| 8.4         | Date sheet/Schedule of the first sessionals to be notified by respective departments on or before | 22-02-2022        |                   | Respective Dean's office in consultation with CoE          |
| 8.5         | Completion of Evaluation of first sessionals and posting of awards on EMS                         | 10/3/2022         | 14-03-2022        | Respective Faculty members                                 |
| 8.6         | Classes (Monday to Friday) with continuous Class Assessment                                       | 14-03-2022        | 6/5/2022          | Respective Faculty members                                 |
| <b>8.7</b>  | <b>Second Sessional Tests</b>   | <b>7/5/2022</b>   | <b>13-05-2022</b> | <b>Respective HoDs in consultation with Deans and CoE</b>  |
| 8.8         | Course/Faculty Feedback 2 (TURN 2) - To be given by students                                      | 7/5/2022          | 13-05-2022        | Department EMS Coordinators                                |
| 8.9         | Date sheet/Schedule of second sessionals to be notified by respective departments on or before    | 25-04-2022        |                   | Respective Dean's office in consultation with CoE          |
| 8.1         | Completion of Evaluation and posting of awards on EMS   | 14-05-2022        | 17-05-2022        | Respective Faculty members                                 |
| 8.11        | Classes with Revision and Doubt Clearing Sessions   | 16-05-2022        | 19-05-2022        | Respective Faculty members                                 |
| <b>8.12</b> | <b>End of Semester Classes</b>  | <b>19-05-2022</b> |                   |  |
| <b>9</b>    | <b>Deposit of Installment of Fee for AY 2021-22 upto</b>  | <b>30-04-2022</b> |                   | <b>Individual Student</b>                                  |
| <b>10</b>   | <b>End Semester Examination its Preparation, Course Exit and Curriculum Feedback</b>              |                   |                   |  |
| 10.1        | List of Eligible Students on the basis of required min. attendance on or before                   | 21-05-2022        |                   | Registrar's office   |
| 10.2        | Submission of Complete Continuous Assessment/Internal Marks to CoE on or before                   | 21-05-2022        |                   | HoD/Faculty  |

|             |   |                   |                   |   |
|-------------|---|-------------------|-------------------|---|
| 10.3        | Course Exit Feedback for CO Attainment and SSS - To be given by Students (feedback on Curricula and Generic Facilities)<br><br>Feedback on Curricula - To be given by Faculty members | 20-05-2022        | 25-05-2022        | Respective Department EMs<br>Coordinator under the supervision of HoD |
| <b>10.4</b> | <b>End Semester Practical Examination</b>   | <b>23-05-2022</b> | <b>27-05-2022</b> |   |
| 10.5        | Date sheet/Schedule for practical exams to be notified by respective departments on or before   | 11/5/2022         |                   | HoD in consultation with Dean and CoE                                 |
| 10.6        | Submission of awards of final practicals to CoE on or before  | 30-05-2022        |                   | Department practical exams coordinators                               |
| 10.7        | Submission of internal evaluation for Open Electives/Value Added courses to central MOOC Coordinator  | 30-05-2022        |                   | Dept. MOOC coordinators   |
| 10.8        | Submission of continuous Assessment / Internal Awards to CoE on or Before   | 31-05-2022        |                   | Dept. MOOC Coordinators   |
| <b>10.9</b> | <b>End Semester Theory Examination</b>  | <b>1/6/2022</b>   | <b>18-06-2022</b> | CoE   |
| 10.1        | Date sheet/Schedule to be notified by CoE on or before  | 26-05-2022        |                   | CoE   |
| 10.11       | Completion of Evaluation and submission of marks to CoE on or before  | 24-06-2022        |                   | Respective Supdt. Evaluation  |
| 10.12       | Showing of Answer Sheets of End Semester Examination  | 27-06-2022        | 28-06-2022        | Respective HoDs and their team  |
| <b>11</b>   | <b>Results and submission of outcome-reports of the semester</b>  |                   |                   |   |
| 11.1        | Results Declaration of semesters examination on or before   | 30-06-2022        |                   | CoE   |
| 11.2        | Submission of detailed reports of Value-Added Courses conducted to IQAC on before   | 10/6/2022         |                   |   |
| 11.3        | Submission of COMPLETE Course Files (with course Outcome attainment computation and analysis), to respective HoD and from HoD to the office of IQAC.                                  | 8/6/2022          | 14-06-2022        | Course Coordinator  |
| 11.4        | Submission of Mentor-Mentee Files (Including their achievements, Academic Progression), ATR on Advanced and Slow Learners to respective HoD   | 8/6/2022          | 14-06-2022        | Faculty mentor  |
| 11.5        | Submission of Mentor-Mentee Files (Including their achievements, Academic Progression), ATR on Advanced and Slow Learners by respective HoDs to IQAC                                  | 17-06-2022        |                   | Respective HoDs/Center Heads  |
| <b>12</b>   | <b>Start of next Semester</b>   | <b>1/8/2022</b>   |                   |   |
| 12.1        | Notification of Academic Calendar for next Semester   | 1/7/2022          |                   | Associate Dean Academics  |

## CHAPTER-5

### FACILITATION UNITS OF THE UNIVERSITY

#### 5.1 Internal Quality Assurance Cell (IQAC)

Activities conducted by IQAC during the Academic Year 2021-22:

#### 1. FDPs conducted by IQAC

| Title of Personality/Professional Development Programme  | Details/Outcome of the Planned Program  |
|--|---|
| Induction Program for newly appointed faculty members  | Induction Program for newly appointed faculty members was organized during August 2021.   |
| Student Orientation Program for newly admitted students  | Student Orientation Program for newly admitted students was organized in three broad batches: Engineering, Management and other than Engineering Programmes during the month of August and September 2021.  |
| IT Training Program: Training on MAC systems<br><br>Resource Persons:<br>Mr. Sabyasachi Sen (GM-IT, MRIIRS)  | A training program on MAC System was organized on 2nd and 3rd July 2021 for IT Team. Resource was Sh. Sabyasachi Sen, GM (IT). Total 18 IT staff members benefited from this program.   |
| Orientation session EMS - New Academic Developments and Reports for Quality Assurance<br><br>Resource Persons:<br>Dr. Naresh Grover, PVC -MRIIRS<br>Ms. Nidhi Garg (Central EMS Coordinator)<br>Mr. Vinay ((Central EMS Coordinator) | The session was conducted by Dr. Naresh Grover, PVC, MRIIRS and Ms. Nidhi Garg & Mr. Vinay (Central EMS Coordinators, which was attended by 36 participants. It was held on July 24, 2021. The new academic developments incorporated on EMS and process for viewing/downloading different reports for Quality Assurance through portal was demonstrated in detail. |
| Training Program on 'Strategies for Effective Implementation of ISO 9001:2015 Quality Management System.<br><br>Resource Persons:<br>Dr. Virender Narula, Professor-ME-FET, MRIIRS   | The training program was organised on July 26, 2021 at 2.00pm through online mode which was attended by 18 participants. The training was imparted by Dr. Virender Narula, Member IQAC. The objective of the training was to provide the awareness about ISO 9001:2015 and its effective implementation in MRIIRS.  |
| Training Program on EBSCO Dentistry & Oral Science Source: Delivering Quality Research.<br><br>Resource Persons:<br>Mr. Ritesh Kumar (Trainer EBSCO Information Services IEEE Client Services)                                       | Training Program on EBSCO Dentistry & Oral Science Source: Delivering Quality Research was held on July 29, 2021, which was attended by 70 participants.  |
| FDP on Effective Pedagogical Practices for inclusive classroom<br><br>Resource Persons:<br>Dr. Babita Parashar (Dean-Education, MRU)   | The FDP On Effective Pedagogical Practices for Inclusive Classroom was held on September 21, 2021. It was organized in collaboration with Manav Rachna University and the resource person of the same was Dr. Babita Sharma, Dean Education (MRU) and was attended by 38 participants.  |
| Personal and Surrounding Hygiene: Awareness Program for Bus Drivers and Cleaners.  | The Awareness Program was held on Oct 04, 2021, which was attended by 15 participants.  |

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| <p>Orientation Workshop on Usage of Virtual Labs: New Modules<br/>Resource Persons:<br/>Mr. Prateek Kumar (Trainer from Virtual Labs, IIT Delhi)</p>                              | <p>The Orientation workshop was held on Oct 07, 2021 and was attended by 16 faculty members and 240 students to understand the new simulators developed for different courses.</p>   |
| <p>Orientation Workshop on updated Modules of EMS: Assessment of Open Elective Courses.<br/><br/>Resource Persons:<br/>Mr. Vinay Kumar<br/>Central EMS Coordinator</p>            | <p>The Orientation workshop on updated modules of EMS with respect to Open Elective courses was held on Oct 07, 2021 and was attended by 47 participants.</p>  |
| <p>Quality Assurance, Sustenance and Enhancement through Administrative Audit<br/><br/>Resource Persons:<br/>Dr. Virender Narula, Professor-ME-FET, MRIIRS</p>                    | <p>Workshop on Quality Assurance, Sustenance and Enhancement through Administrative Audit was conducted on Oct 18, 2021, which was attended by 12 participants. The objective of the workshop was to expose the participants to the insight of Administrative Audit in HEIs and to empower the team members to promptly implement the best practices in their respective sections.</p>   |
| <p>Quality Assurance, Sustenance and Enhancement through Academic Audit<br/><br/>Resource Persons:<br/>Dr. Sandeep Grover, Professor, Mechanical Engineering, YMCA Faridabad</p>  | <p>Workshop on Quality Assurance Sustenance and Enhancement through Academic Audit was conducted in collaboration with J.C. Bose University of Science and Technology, YMCA on Oct 19, 2021 which was attended by 36 participants. Dr. Sandeep Grover was the resource person for the same. The objective of the workshop was to expose the participants to the insight of Academic Audit in HEIs and to empower the team members to promptly implement the best practices in their respective sections.</p>   |
| <p>Training Session on Proctor Module-New Updates for EMS Coordinators<br/><br/>Resource Persons:<br/>Mr. Vinay Kumar<br/>Central EMS Coordinator</p>                             | <p>Training Session on Proctor Module-New Updates for EMS Coordinator was held on Oct 20, 2021. This was attended by 23 participants. The objective was to apprise the respective department EMS coordinators about the Proctor Module developed on EMS for Mentor-Mentee interactions and record assessment. The coordinators were trained to impart the training further at their department end.</p>  |
| <p>Orientation Programme on Ticketing System for Quality Maintenance.<br/><br/>Resource Persons:<br/>Mr. Vinay Kumar<br/>Central EMS Coordinator</p>                              | <p>The Orientation Programme on Ticketing System for Quality Maintenance was organised on Oct 22, 2021 for the staff members of Central Library, Purchase &amp; Stores, DSW, Medical, Sports, Admission Cell, IT, CRC &amp; CDC, Hostel, Establishment, Security, Canteen, Housekeeping, Transport and Repair &amp; Maintenance, through online mode. It was conducted by GM IT, MRIIRS. The objective of the program was to provide training on the module for assisting solution through single window for all support services required across the campus and to impart transparency about the support services received from IT and Administration and Timely Management of issues/concerns with respect to eh support services. Total 24 participants attended the program.</p> |
| <p>Awareness Program on Personal and Surrounding Hygiene: Awareness Program for Hostel Staff.<br/><br/>Resource Persons:<br/>Dr. Shobha Srivastava (Deputy Registrar, MRIIRS)</p> | <p>The Awareness Program for hostel staff was held on Oct 25, 2021 and was attended by the 20 participants.</p>  |

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| <p>Awareness Program on Fundamental Duties and Conduct for Gardeners, Security and Housekeeping.</p> <p>Resource Persons:<br/>Mr. Happy Bhalla</p>   | <p>The session was held on Dec 31, 2021 on Fundamental Duties and Conduct for Gardeners, Security and Housekeeping Staff. It was conducted by Mr. Happy Bhalla and total 28 participants attended this session.</p>  |
| <p>Symposium on The Role of INFLIBNET in Quality Control Processes of HEIs.</p> <p>Resource Persons:<br/>Dr. J.P Singh Joorel, Director-INFLIBNET<br/>Dr. K.P Singh, Professor, DLIS ,University of Delhi</p>  | <p>The symposium on The Role of INFLIBNET in Quality Control Processes of HEIs was organized on Dec 31, 2021 which was attended by 168 participants.</p>   |
| <p>One Week FDP on Effective Academic Practices</p> <p>Resource Persons:<br/>Dr. Sandeep Grover, Professor, Mechanical Engineering, YMCA Faridabad<br/>Dr.Akshay Girdhar, Guru Nanak Dev Engineering College, Ludhiana<br/>Dr. Babita Parashar, Dean Education, MRU<br/>Dr. Manju Khari, Associate Professor, JNU, New Delhi</p>   | <p>One week FDP on Effective Academic Practices was organized jointly by IQAC, MRIIRS and FCA from Jan 10-14, 2022 in collaboration with J.C. Bose University of Science and Technology, YMCA, Faridabad. Total 52 participants attended the FDP. Dr. Sandeep Grover, D. Akshay Girdhar, Dr. Babita Parashar, Dr. Manju Khari etc. were the Resource persons</p> |
| <p>Awareness Program on Total Quality Management in Student Welfare</p> <p>Resource Persons:<br/>Mr.R.K Arora ,Registrar-MRIIRS<br/>Dr. Gurjeet Chawla, Dean Welfare, MRIIRS<br/>Dr. Amit Seth, Director, FCBS, MRIIRS<br/>Dr.Virender Narula, Professor Mechanical Engineering ,FET,MRIIRS</p>  | <p>One day Awareness Program on Total Quality Management in Student Welfare was conducted on Jan 29, 2022 which was attended by 185 participants.</p>  |
| <p>Gender Sensitization – Breaking Barriers: Awareness Programme for Faculty and Staff Members</p> <p>Resource Persons:<br/>Dr. Priyanka Tiwari, FBSS, MRIIRS<br/>Dr. Ankita Magan, FBSS, MRIIRS</p>   | <p>Awareness Programme on Gender Sensitization -Breaking Barriers was held on Feb 05, 2022 in which 89 faculty members and 30 staff members participated.</p>  |
| <p>Quality Assurance through Quality Services:<br/>An Orientation Program for Administrative Staff on Imparting Effective Support Services to the Students</p> <p>Resource Persons:<br/>Dr. Amit Seth, Professor and Director FCBS<br/>Mr. Sunny Bhatia, Assistant Professor, Automobile Engineering FET, MRIIRS<br/>Ms. Kanupriya Shekhar, Deputy Director-Admissions, MRIIRS</p> | <p>Internal Quality Assurance Cell, Manav Rachna International Institute of Research and Studies (MRIIRS) organized an orientation program for administrative staff on "Imparting Effective Support Services to the Students" on February 04, 2022 which was attended by 94 participants.</p>  |
| <p>Training Program for Generating Admit Cards on EMS</p> <p>Resource Persons:<br/>Mr. Vinay Kumar<br/>Central EMS Coordinator</p>   | <p>The Training Program was organized for the examination staff members on Feb 03, 2022, which was attended by 6 participants.</p>   |

## 2. IQAC Meetings

During the year 2021-22, IQAC meetings for all the four quarters were held (first meeting on 19th October 2021, second meeting on 15th January 2022, third meeting on 8th April 2022 and fourth meeting on 27th June 2022) in which representatives of all stakeholders including experts from industry were invited.

## 3. Major Quality Initiatives Under taken by IQAC

### ❖ Accreditation and Rankings:

#### a. NBA Accreditation of MBA Programme & 4 UG Engineering Programmes of CSE, ECE, Mechanical and Biotechnology.

- NBA Peer Team visit for MBA was held during the month of Oct 2021.
- MBA Programme of MRIIRS got successfully accredited by NBA during the month of Feb 2022 valid upto 30-06-2024.
- 4 UG Engineering Programmes of CSE, ECE, Mechanical and Biotechnology got accredited by NBA valid upto 30-06-2022 based on compliance report for AY 2021-22.

#### b. Submission of SSR for 2nd Cycle of Accreditation by NAAC:

The SSR for 2nd Cycle of Accreditation was prepared as per the Revised Accreditation Framework and submitted to NAAC successfully on Aug 05, 2022.

#### c. Participation in NIRF – India Ranking 2021 and 2022

Data collation for NIRF was completed and details were uploaded on the NIRF portal. MRIIRS got prestigious NIRF Ranking 2021 as follows:

Engineering Category: 118

Dental Category: 39

University Category: Band 101-150

MRIIRS got prestigious NIRF Ranking 2022 as follows:

Engineering Category: 105

University Category: Band 101-150

### ❖ Revision of Quality Assurance Manual:

The revised Quality Assurance Manual incorporating all the revised/new policies and procedures proposed after the notification of first version notified on May 02, 2017 was presented during the 4th Quarterly meeting of IQAC for AY2020-21 held on June 29, 2021. The same got approved during the 35th meeting of Board of Management held on July 05, 2021.

### ❖ ISO Certification and Environment & Green Audit:

a. **ISO 9001:2015 certification:** Manav Rachna International Institute of Research & Studies (MRIIRS) is ISO 9001:2015 Certified Institution from BSCIC Certifications Pvt. Limited Faridabad for the following scope:

- Corporate Relations and Career Management Centre: Career Skills & Guidance, Guidance & Counselling for Employability, Employability & Preplacement Training; and Corporate Relations & Support
- Examination Cell: Conduct of Examinations, Result Declaration and Award Management.
- Central Library: Acquisition, Organization and Dissemination of the Library Services.

**b. Energy Management System of MRIIRS** is ISO 50001:2018 certified since July 22, 2022 and Environment Management System of MRIIRS is ISO 14001:2015 certified since July 04, 2022 by BQC Assessment Private Limited.

**c. Conduct of Environment and Green Audit:** Environment and Green Audit was conducted by the certification body BSCIC certifications Pvt. Ltd. in the month of April 2022. The certificate of Green and Environment Audit was issued to MRIIRS on July 22, 2022, after assessing the campus on following parameters:

- Waste minimization and recycling
- Greening -Energy Conservation
- Water Conservation
- Clear Area
- Animal Welfare
- Environmental Legislative and
- General Practices

**E-Governance initiatives taken during AY2021-22:**

During AY2021-22, multiple e-governance initiatives were taken at MRIIRS including:

- **Proctor module** has been activated on EMS to support student mentoring. Mentors are able to schedule mentor-mentee meetings, float messages to their respective mentees and monitor their academic performance including attendance of the mentees in all the registered courses.
- **Upgradation of module related to uploading of assessment marks of open elective courses,** course coordinators are able to upload the marks of students of multiple programmes/semesters through single sheet only.
- **Incorporation of survey to assess students' satisfaction levels on Teaching Learning Process on EMS.** Student Satisfaction Survey at MRIIRS now includes following components:
  - Feedback on Curricula
  - Feedback on Generic Facilities
  - Feedback on Teaching Learning Process (introduced from AY2021-22)
- With respect to Feedback Analysis part, the **facility to obtain bar graphs along with consolidated reports** based on the responses as obtained by the respondents for various parameters of different types of feedback is fully functional on EMS now.
- **One Time Password (OTP) facility** has been incorporated and activated for the security features on EMS.
- **Study Scheme Maintenance Module** is fully operational now at the department end. The process has been decentralized now. EMS coordinator will be able to add the exam parameters at the start of session and same will be reflecting at faculty account for marks uploading.

- **Ticketing System for Quality Maintenance** has been introduced by the IT department for the timely management of issues/concerns with respect to the support services related to IT/ General Admin/Students/EMS/Admissions etc. through a single window system. This brings complete transparency to the complainant about the latest status of the complaint lodged and also keeps supervisor informed about pending complaints till ticket is closed.
- An increasing trend in student Enrollment and beneficiaries in terms of credit transfer for SWAYAM/NPTEL courses has been witnessed during the AY2021-22. **Swayam Local Chapter of MRIIRS is Awarded as an Active Local Chapter for this year.**
- **Conduct of Academic and Administrative Audit (AAA) and Stakeholders Feedback for AY2020-21**

**a. Conduct of Academic and Administrative Audit for AY2020-21:** As per the laid down policy of MRIIRS, Academic Audit of each department was conducted where external auditors were invited from various reputed academic institutions and suggestions were implemented by the departments concerned. Academic Audit of all the teaching units and Administrative Audit of central units under six clusters was held during September-December 2021 for AY 2020-21. Audit reports and respective ATRs were discussed during the 2nd Quarterly meeting of IQAC for AY 2021-22 held on Jan 15, 2022. The external audit review was conducted on April 29, 2022 to validate the compliance of Academic and Administrative Audit for AY2020-21.

**b. Conduct of Stakeholders Feedback for AY2020-21:** Feedback from various stakeholders for AY2020-21 was collated through i-cloud EMS in the form of Student Course Feedback; Student Satisfaction Survey comprising Feedback on Curricula and Generic Facilities; Alumni Feedback on Curricula; Employer/Industry Expert Feedback on Curricula and Faculty Feedback on Curricula. The action taken reports and recommendations of central committee on Feedback on Curricula and Feedback on Campus Life were reviewed during the 1st quarterly meeting of IQAC for AY 2021-22 held on Oct 19, 2021.

## 5.2 Corporate Relations and Career Management Centre (CRCMC)

Corporate Relations and Career Management Centre has two significant wings, viz. 'Career Development Centre (CDC)' & 'Corporate Resource Centre (CRC)'

**Career Development Centre at MRIIRS,** engages with the industry and constantly strives for expanding the industry-academia interface. MRIIRS is accorded with the profound responsibility skills of the students- an aspect that in today's world has taken as much prominence as the technical knowhow. Through a robust mechanism training is imparted in Personality Development, Communication & Soft Skills, Verbal Ability, Quantitative & Reasoning Aptitude, spread across semester, as an embedded part of every course available at MRIIRS.

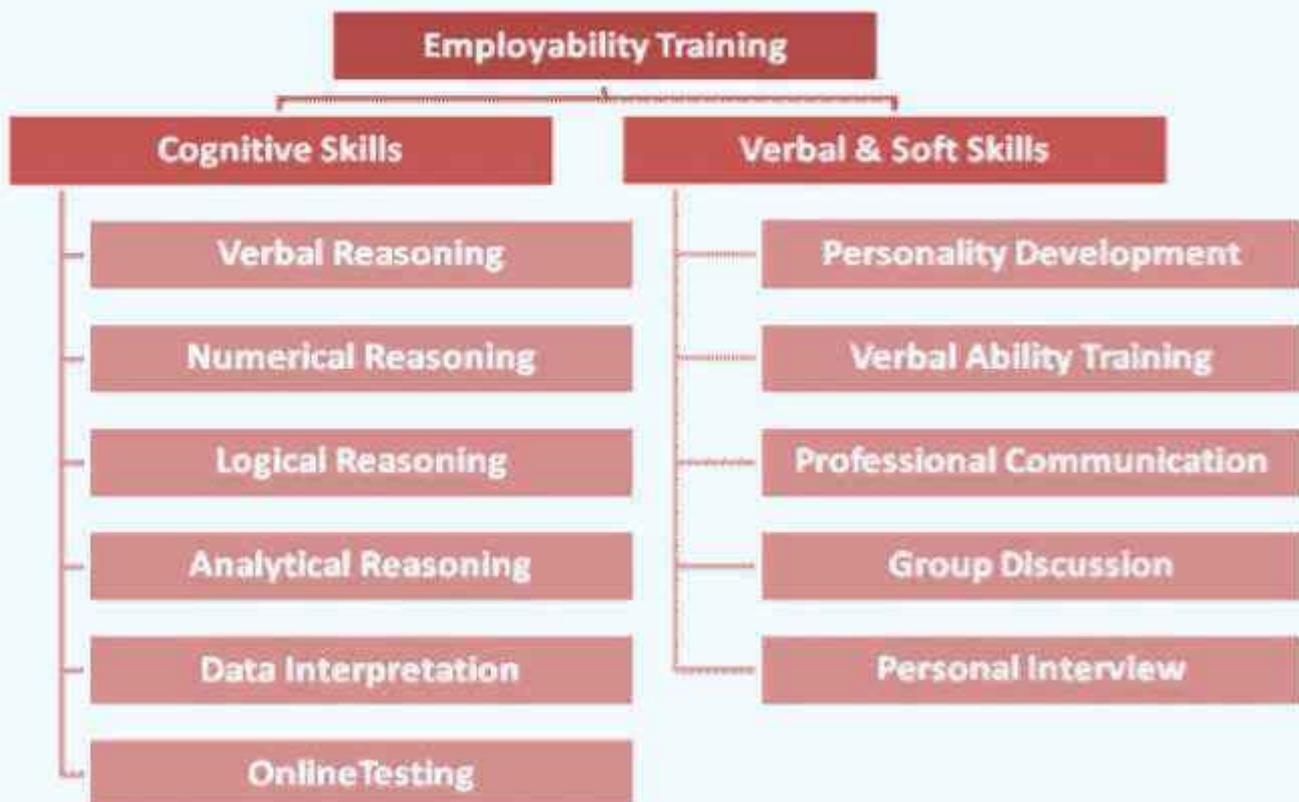
### Employability Training, Assessments & Preparation for placement

CDC has partnered with prominent skills assessment platforms to facilitate comprehensive Training Need Analysis for students. These assessments cover various aspects of employability skills, enabling a thorough evaluation of their capabilities. Furthermore, before the commencement of the placement season, crash courses and industry-specific training sessions are organized to equip students with the necessary skills and knowledge required to seize placement opportunities effectively. This proactive approach ensures that students are well-prepared and confident in facing potential job placements.

- **CDC operates on the following philosophy -**
- Engage in intelligent self-assessment to discover and understand personal attributes, such as skills, values, strengths, motivations, and more.
- Explore into market opportunities to make well-informed and wise career choices.
- Identify and narrow the gap between industry and academia.
- Develop a compelling action plan, including assistance in creating effective resumes, cover letters, and preparation for personal interviews.
- Provide mentorship to students to secure placements in the companies of their preference.







### Communication Gym

Communication is the life blood of any transaction, that takes place in the world and hence communication ability is the most sought-after non-academic skill by employers all over the World – irrespective of the industry or the job profile. Whether it is about being able to grasp what is being taught in the class, or appearing for an interview during recruitment or amalgamating well in a workplace, a person with appreciable communication skills is often seen surpassing his counterparts with lesser degree of interaction capabilities.

Manav Rachna in collaboration with **Vision Net** devised an integrated, one-of-its-kind Language Lab for providing its students state of the art facilities to make communication enhancement exercises engaging and fun-filled. This language Lab called the "Communication Gym" is equipped with interactive software that helps in providing individualized teaching to students, depending on their capabilities.

The Communication Gym **uses a unique blend of Trainer-Led and Self-Led Learning**. This methodology exposes the learner to both real-life scenarios and situational learning using simulation techniques, coupled with cutting-edge technology and multimedia rich content. Manav Rachna is proud to bring this feature to its students and ascertain that it will help them to gain, the much required edge in this competitive World.

### Zenith – CDC's Rewards & Recognition Programe

Zenith is an event which marks the culmination of every academic semester. Meritorious students from all the departments are felicitated to further augment their learning endeavor. The mega event is conceptualized and executed in intellectual incubation by team CDC.



## Placements

Corporate Resource Centre initiated the Campus drives for **Placement Session 2021-22**. This includes renowned bulk recruiters like **Capgemini, TCS, HCL Technologies, Accenture, Nagarro, Coforge, Infogain, IBM (India), Wipro, Hike Education, JBM** and many more.

Product-based companies like **NTT Data, Grape City, Indus Valley Partner, ADP, EX2 Solutions, Morgan Stanley (Wiley), Fidelity, Xebia, Newgen, Nagarro Software, Newgen, Avizva, Maven Wave, Crowe LLP, Unthinkable Solutions, Newgen Software**, and many more have shown their faith in Manav Rachna's diverse talent pool and conducted a virtual placement drive for our students.

**Prominent Placements 2021-22 Batch:**

| Company Name                                      | CTC (Rs LPA) | No. of selected Students |
|---|--------------|--------------------------|
| Kazam EV Tech Pvt. Ltd                            | 22           | 1                        |
| DUNZO   | 18           | 5                        |
| Credit Suisse Services                            | 13.5         | 1                        |
| SeekAxis Technologies Pvt. Ltd.                   | 10.1         | 1                        |
| NoPaperForms Solutions Pvt. Ltd.                  | 8.5          | 1                        |
| Remunance Services Pvt. Ltd                       | 8.4          | 1                        |
| Fidelity International                            | 8            | 4                        |
| Honda Motorcycle & Scooter India Pvt. Ltd.        | 7.5          | 2                        |
| Axiom IO IT Services Pvt Ltd                      | 7.5          | 1                        |
| EX Squared Solutions India Pvt Ltd                | 7.5          | 1                        |
| Samsung R&D                                       | 7.5          | 1                        |
| STARTEK (Aegis Customer Support Services Pvt Ltd) | 7.02         | 1                        |
| A-Cube Business Solutions Pvt Ltd                 | 7            | 1                        |
| Ultimate Kronos Group                             | 7            | 2                        |
| Wiley Mthree                                      | 7            | 1                        |
| IndArka Energy                                    | 6.82         | 1                        |
| Webghat   | 6.8          | 1                        |
| L&T Construction                                  | 6.04         | 1                        |
| AVIZVA Solutions Private Limited                  | 6            | 2                        |
| Bosch Global Software Technologies Pvt Ltd        | 6            | 1                        |
| Contec Global India Pvt Ltd                       | 6            | 4                        |
| Nokia   | 6            | 8                        |
| Ubiquiti Inc                                      | 6            | 1                        |
| Unthinkable Solutions                             | 6            | 2                        |
| VTC Projects (P) Ltd                              | 6            | 1                        |

|                                 |                    |    |
|---------------------------------|--------------------|----|
| Genpact                         | 5.8                | 7  |
| Legato Health Technologies      | 5.76               | 2  |
| Testbook Edu Solutions Pvt. Ltd | 5.53               | 1  |
| Aon                             | 5.5                | 9  |
| Height Promotion                | 5.5                | 2  |
| HiyaMee Private Limited         | 5.5                | 1  |
| OneBanc Technologies            | 5.5                | 1  |
| Servetel Communication          | 5.09               | 1  |
| Byju's                          | 10.00 & 6.00       | 6  |
| Xebia                           | 9.23 & 5.64 & 4.80 | 12 |
| Intellipaat                     | 9.00 & 8.65        | 8  |
| Jaro Group                      | 8.46 & 6.60        | 6  |
| ADP India Pvt. Ltd.             | 7.50 & 6.00        | 16 |
| PlanetSpark                     | 6.63 & 6.40 & 3.00 | 7  |
| Accenture                       | 6.50 & 5.50 & 4.50 | 27 |
| Hitachi Vantara                 | 6.00 & 5.00        | 3  |
| HCL Technologies                | 6.00 & 2.20        | 2  |
| Hike Education                  | 5.82 & 4.86        | 5  |
| Nagarro Software                | 6.00 & 4.50 &      | 14 |
| IndiGo                          | 5.00 & 4.21 & 3.00 | 4  |
| TCS                             | 7.00 & 3.53 & 3.36 | 34 |
| Wipro Ltd                       | 3.5                | 51 |
| Capgemini                       | 4                  | 40 |
| Coforge                         | 4.25 & 2.85        | 25 |
| Healthians                      | 3.00 & 4.80        | 18 |
| Infogain                        | 4                  | 12 |
| e-Ashwa Industries Pvt. Ltd     | 3.6                | 10 |
| IBM India                       | 4.25               | 11 |
| OPTUM                           | 3.6                | 10 |

**Our Major Recruiter**



### 5.3 International Education Center (IEC)

IEC is a constituent facilitation unit of Manav Rachna International Institute of Research and Studies (MRIIRS), formerly Manav Rachna International University (MRIU) which primarily looks after all matters relating to initiation, development, establishment and sustenance of relationships and tie-up with Foreign Education providers and their representatives in India and abroad. With its global outlook and reach, MRIIRS has much to offer in the way of learning opportunities both inside and outside the classroom at Under Graduate, Post Graduate & Doctorate level in a truly International Environment. It aims to develop and sustain viable, strong and long-term International relations in the field of education with the perspective of benefit to the students. The major role of IEC is to enhance MRIIRS's International image on local and International Platform, to explore new relationships; to establish communications with International Educational organizations and providers and also to explore avenues to attract students from abroad, so that University recognition remains glow on the horizon.

The areas of International Cooperation include:

- Exchange of Undergraduate and Graduate scholars;
- Exchange of Faculty and Staff members;
- Joint Research and Consultancy activities;
- Participation in Seminars and Academic meetings;
- Exchange of Academic Materials and other information;
- Special short-term academic programs and projects;
- Cooperation in Curriculum development
- Collaboration in International Seminars and Conferences
- Cooperation in quality assurance
- Collaboration in Education export

The International Education Centre also endeavors to explore and develop potential Partners for Joint ventures in India and Abroad. Besides, it provides platform for Foreign Faculty for Guest Lectures at MRIIRS and tie ups for International Accreditations and Recognition. The University has entered into partnerships and tie ups with various Foreign Universities and Institutes across the globe including USA, UK, Australia, Canada, Finland, New Zealand, Kyrgyzstan, Argentina, Turkey, Vietnam and many more. We at MRIIRS, take it as our additional responsibility towards our International students, as large numbers of foreign students join our University every year. Keeping in mind the same we have formed an International Students Welfare Committee run by experienced professionals with a well rounded global exposure to attend to the foreign student's in capacity of personal, administrative and academic grievances in the University though this is at the time of their induction, at their of joining or thereafter during their stay as the students of MRIIRS. The University authorities leave no stone unturned in developing and coordinating activities to create and enhance a global awareness and diverse cultural educational environment especially for the foreign students. The University provides a single window service facility to all its international students through the International Education Centre, IEC.

## 5.4 Manav Rachna Innovation and Incubation Centre (MRIIC)

The brief outcomes and initiatives of MRIIC taken during the AY 2021-22 are as outlined below:

### 5.4.1 Centre of Excellence for Solar:

Dr. Ashwini K Aggarwal inaugurates Centre of Excellence for Solar PV Skills at Manav Rachna On the occasion of the 74th Founder's Day, the Centre of Excellence for SolarPVSkills was inaugurated at Manav Rachna campus by Dr. Ashwini K Aggarwal, Director- Government Affairs, Applied Materials India. The centre is a Joint Initiative of Electronics Skill Sector Council of India (ESSCI), Manav Rachna and Applied Materials.



The objective of the centre is to impart high-quality training for Solar Roof Top design wherein participants will be exposed to the solar design software for planning and assembling the entire structure from scratch. ility to all its international students through the International Education Centre, IEC.

### 5.4.2 CISCO MoU:

MANAV RACHNA CISCO NETWORKING ACADEMY  
ENROLL YOURSELF TODAY IN PYTHON COURSE  
Link: [bit.ly/mriirnetacad](https://bit.ly/mriirnetacad)

Manav Rachna is proud to associate with CISCO Networking Academy. Under this association, students of ManavRachna are getting access to various high-quality computer programming and IT domain courses that have been developed under CISCO Networking Academy. Students got free access to 17 free tier courses which include programming courses on Python, C and C++, Linux Fundamentals, a course on Internet of Things (IoT), and many more.

Many students have earned certificates of completion for different courses through Manav Rachna CISCO Networking Academy. The advantage of these programs is that they are self-paced as well as instructor driven for a better understanding of the course content.

Students are also getting exposure to work on assignments and quizzes which are part of the course curriculum and this will help them enhance their skills to the levels which are required by the industries. The aim of these high-tech programs is to make the students job-ready and supporting them with professional certification from CISCO. Scholarship of up to 70% for a professional certification exam feebased on merit in the CISCO NETACAD programs.

### 5.4.3 UI Path and RPA MoU:

MRIIRS partners with UiPath – the leading Robotics Process Automation organization. Manav Rachna International Institute of Research and Studies is glad to partner with UiPath under academic alliance program. UiPath is a leading Robotic Process Automation organization. This collaboration has opened the doors for the students of Manav Rachna to work on the tool suite of UiPath for designing Robots that are used in IT automation jobs.

Students at MRIIRS have now access to the UI Path Studio software and learning material so that they can start designing robots for the tasks that are repetitive and rule based. Certificates are awarded post completion of the learning modules available on the LMS of UiPath. Discounts on the professional certification cost of RPA exam conducted by UiPath is also available for students who are being trained for different job roles such as RPA Developer, Solution Architect, Business Analyst, Implementation Manager, and Infrastructure Engineer, among others.

The RPA course is also being offered to the students as a part of their academic curriculum so that they can become job ready for the RPA field. This is one of the fastest growing domains as many corporates are shifting from manual to robotic controlled processes. Students have also the opportunity to get themselves enrolled for this programme in both self-paced and instructor driven learning mode. Manav Rachna is geared up to offer a high quality learning experience in RPA domain with the UiPath Academic Alliance Programme.



#### 5.4.4 GITHUB MoU:

Manav Rachna is glad to partner with GitHub. Under the GitHub campus program, student and faculty members get a package of technical tools, training and support for growing technical communities in Manav Rachna Campus. Manav Rachna International Institute of Research and Studies has got access to GitHub Enterprise server which is used in various technical departments of the University. Teacher trainings are being conducted to master GitHub fundamentals under campus advisor program.



#### 5.4.5 Scratch Olympiad 2021:

Manav Rachna was the partner of the Indian National Stage of the International Scratch Creative Programming Olympiad 2021. Scratch is a visual event-driven programming environment designed for children and adolescents, while at the same time finding millions of adult fans. Scratch is the door to the world of "big programming" and the Olympiad brings together the most talented future developers and innovators.

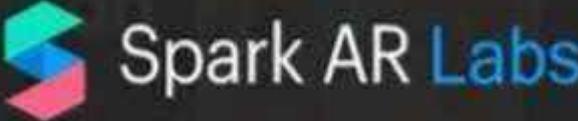
Students from 7 years old and adults from different parts of India were participants in the Indian national selection stage of the Scratch Olympiad 2021.



#### 5.4.6 Incubate IND:

Manav Rachna brings forth a Hands-On Session on SparkAR with Tanisha Rana from Incubate IND. Spark AR Labs is an initiative by Facebook to enhance the skills of Spark AR creators by providing hands-on training and workshops over the next couple of months. To kickstart the Spark AR Labs program, IncubateIND is happy to partner with Facebook to support the new Spark AR Creators via a course of 3 weeks, helping them implement those skills in the real-time AR Effect Hackathon Challenge.



**HANDS-ON SESSION ON SPARKAR**



**Tanisha Rana**  
IncubateIND

**17<sup>th</sup> June 2021 (02:00 PM - 04:00 PM)**

**REGISTER NOW** [incubateind.com/hack/sparkarlabs](https://incubateind.com/hack/sparkarlabs)



### 5.4.7 Nvidia Grant:



MRIIRS project has been selected by NVIDIA under NVIDIA Academic Hardware Grant Program. MRIIRS project submitted by Manav Rachna Innovation and Incubation Centre for establishment of Centre of Excellence in AI & IoT has been selected by NVIDIA under which NVIDIA has donated 20 Kits of Jetson Nano board to Manav Rachna International Institute of Research and Studies to support

the exciting Teaching/Curriculum Development. This also enables students to be a part of the NVIDIA Developer program which gives free access to SDKs, NVIDIA On-Demand, self-paced training, community forums, and exclusive early access programs.

The NVIDIA® Jetson Nano™ 2GB Developer Kit is ideal for teaching, learning, and developing AI and robotics. It delivers incredible AI performance at a low price and makes the world of AI and robotics accessible to everyone with the exact same software and tools used to create breakthrough AI products across all industries.

### 5.4.8 IICDC:

The India Innovation Challenge Design Contest (IICDC) 2019, launched by Texas Instruments India in association with the Department of Science and Technology and Indian Institute of Management Bangalore has provided young tech entrepreneurs with an ecosystem and support to nurture their entrepreneurial spirit. It was an excellent opportunity to leverage their talent and convert their innovation to a startup. Following set of Awards and Recognition were provided to the winning teams:

- INR 20 Lac seed fund to top 10 startups
- INR 5 Lac product development fund to select semi-finalist teams
- INR 30K stipend to select Semifinalist teams & many more.

### 5.4.9 Workshop on Front End Web Technologies – HTML and CSS held on 19th Jan 2022 and 20th Jan 2022

**Day-1:** A workshop on Front End Web Technologies – HTML and CSS was organised by MRIIC on 20th January, 2022 and conducted by Dr. Umesh Dutta (Director, MRIIC) and Ms. Ina Singh. Students of Computer Science Engineering, Computer Science Specialization (Cloud Computing), Computer Science Specialization (Cyber Security) and Electronics and Communication Engineering attended the workshop. The session started with a discussion on Front End Web Technologies and their importance in easing user interaction and convenience of use. The session progressed with the rising relevance of frameworks that provide enhanced design capabilities within a specific time frame. The hands-on part started right after introducing the Bootstrap framework and students coded along and developed their

own one-page front-end website with all relevant sections. The students were familiarised with the concept of CDNs (Content Delivery Networks) and how to incorporate them in websites. This enabled them to use the predefined styling in bootstrap simply by using the class names associated with them. The concept of using 'div' was introduced along with styling it as a container. Elements like buttons, input boxes, forms and images were placed in it and styled according to students' designs. The websites were designed containing sections of navbar, carousel, newsletter and footer. All these elements were individually worked upon and each detail was studied in detail. A special emphasis was given on the use of colours and styles. Special stress was laid on using components that are responsive in nature owing to the variety of sizes of digital devices. The students perceived this session as a great resource and considered it a great skill to add to their resume. They looked forward to more such sessions in future. Further sessions may also work upon integrating front-end web technologies with back-end technologies.

MANAV RACHNA  
35th Anniversary

INSTITUTION'S INNOVATIVE SKILL COURSES

19th January, 2022  
Workshop

# FRONT END WEB ECHNOLOGIES

WWW.MRIIC.TECH

Venue: L AS 216 MRIIC LABS  
Time: 10:00 AM - 4:00 PM



**Day 2:** On day 2 the session was conducted for the Students of Computer Engineering, Computer Science Specialization (Cloud Computing), Computer Science Specialization (Cyber Security) and Electronics and Communication Engineering attended the workshop.

The session was held in a completely hands-on manner. It started with an introduction to Front End Technologies and their utility in the digital age. The focus was on two technologies: Hyper Text Markup Language (HTML) and Cascading Style Sheet (CSS). The students were guided on how to make a front-end web page using HTML boilerplate code in the VS code environment and introduced to the various elements that could be present on the page. The basic tags of an HTML page were discussed like html, head and body and what can be contained within each. The elements like headings, paragraphs, buttons, inputs, forms, anchors and images were elaborated upon and discussed in detail with additional functionality. After adding elements, their placements were worked upon and then the task of their styling was undertaken using CSS. The three different styles: inline CSS, using <style> tag as well as in a separate file app. css were tackled in the workshop.

Students were appreciative of the opportunity to learn these skills and were able to design a theme-based one page front-end website with the skills taught during the workshop. Future workshops involving use of Frameworks for Front End Design were also planned based on student interest.

#### **5.4.10 Toycathon Physical Edition (May 24 -26,2022)**

Manav Rachna International Institute of Research and Studies was selected as a Nodal Centre by Ministry of Education's Innovation Cell & AICTE for hosting Toycathon 2022 physical edition organized jointly by the Ministry of Education in coordination with five other Ministries viz: Ministry of Women & Child Development, Ministry of Information & Broadcasting, Ministry of Commerce & Industry, Ministry of Micro, Small and Medium Enterprises, and Ministry of Textiles. The event kick-started on 24th May with the inaugural address given to all 5 nodal centers from AICTE headquarters by senior officials of AICTE and MIC.

Toycathon focuses on conceptualizing new and innovative toys using local materials which are economical, affordable, safe, environment friendly, with exceptional high quality for both Indian and global markets. Toycathon was a continuous 36 hours event which saw the gracious presence of senior officials of AICTE, MIC and Manav Rachna at the nodal center for interacting with the students and encouraging them to put the best possible efforts for converting their toy ideas into working prototypes. Prof. Rajive Kumar, Member Secretary AICTE; Dr. Mohit Gambhir, Director MIC; Shri Girish Kumar Bhasin, Senior Account Officer AICTE; Shri Yogesh Wadhawan, Accounts Officer AICTE; Dr. Sanjay Srivastava (VC-MRIIRS); Shri R.K Arora (Registrar MRIIRS); Lt. Gen. (Retd.) R.K. Anand and Dr. Pardeep Kumar, Pro Vice Chancellor and Dean FET, graced the Toycathon event with their physical presence at Manav Rachna. Manav Rachna was the only nodal center who has been given the responsibility of hosting students of Track 1 which included students from PAN India schools from grade VIII till grade XII.

The two day event was concluded with a valedictory ceremony, graced by the Chief Guest Dr. Mohit Gambhir, Director of Ministry of Education, Innovation Cell, Dr. Pardeep Kumar, Pro Vice Chancellor and Dean FET, Dr. Geeta Nijhawan, Associate Dean, FET along with them, Mr. Sarim Moin, Mr. Nitin and Mr. Sourabh from the Ministry of Education Innovation Cell, Dr. Umesh Dutta, Director, MRIIC, and other senior representatives.

There were 34 teams from all over India, who brought innovation and structure with scientific temper. Seven teams won for their innovative idea, representation of Indian heritage and dawning with technological progression. In addition to that Manav Rachna has also awarded Appreciation awards to four teams for their creativity and out of the box thinking.



Team Tatva, Toycoon, Toyscope, Stickathi, Knowledge Hub, Spell Wizard, Untold Stories, all hailing from different regions like Tamil Nadu, Haryana, Punjab, Odisha, Kerala emerged as winners. The 7 teams along with certificates of merit won 25 thousand rupees each.



**Toycathon Physical Edition**





## 5.5 Manav Rachna International Institute of Research & Studies Alumni Association

Established in February 2014 under Manav Rachna Vidyanatariksha Foundation, Manav Rachna International Institute of Research & Studies Alumni Association is a strong Alumni Network of socially responsible and skilled individuals who share the Manav Rachna heritage. The Alumni Association has taken numerous initiatives to build a robust alumni community which guides and mentors' students to take up research projects and thesis to support global change. Alumni association organizes Alumni Lectures, Seminars, Workshops and Alumni Meets and various engagement activities. These activities and events go a long way in bridging the gap between the students and Alumni and help them to take forward this Innovative Race.

**Newsletter:** To reconnect, reminisce and reignite the bond with the alma mater newsletter was launched with latest news and updates about the University.

**Utkrisht:** This alumni book was launched which had inspiring success stories and achievements of the alumni. It comprised stories of 25 alumni and special mention of 25 alumni.

**Alumni Tab:** It is a virtual space on the MRIIRS website where alumni can thrive, connect and contribute to the legacy of the institution.

**Alumni Helpdesk:** It is a one stop destination for resolving queries, offering guidance and ensuring a seamless alumni experience. More than 100+ queries resolved till date.

| Number of Alumni Events Conducted from July 1 <sup>st</sup> , 2021 to June 30 <sup>th</sup> , 2022 |               |                         |
|--|---------------|-------------------------|
| S. No.   | Faculty       | No. of Events Conducted |
| 1  | FET           | 4                       |
| 2  | FAHS          | 1                       |
| 3  | FMeH          | 2                       |
| 4  | Central Level | 6                       |
|  | <b>Total</b>  | <b>13</b>               |

## 5.6 STUDENT FACILITATION CENTRE (SFC)

Established in October 2018, the Student Facilitation Centre (SFC) complements the services available on campus and is the first point of contact for prospective as well as enrolled students for most of their general queries during their academic life at Manav Rachna.

**Vision:** To make the academic journey of Manav Rachna students smooth during their time at the Campus

**Mission:** To bring a one-stop solution to all students' needs – a single window obstacle clearance system that allows students to seek resolution of issues without unnecessary liaison.

**Goal:** To develop a strong connection between students, management and relevant stakeholders through transparent and conducive communication channels.

**Objective:** To ensure a seamless admission process, continuous student engagement and effective problem resolution for all the students on Campus.

**Modus Operandi:** Front Desk at E-Block becomes the first point of contact for prospective and enrolled students. The centre connects the student to the ultimate decision-making competent authority for addressing their concerns, obtaining the final decision (or resolution) and thus eliminating the need for multi-party liaisoning by the student himself/ herself.

**Requests accepted:** The requests entertained include but are not limited to:

| S. No. | Category                                | Details  |
|--------|---|--|
| 1.     | Admission & Procedural Queries          | University admissions is a multi-stage process including filling up the Admission Form, conducting the Entrance Exam, Creation of merit list, displaying results on the website, and Physical counselling before culminating in the final admission to the candidate's institution of choice. All such admission and counselling-related queries are handled by SFC.   |
| 2.     | Post Admission Procedures               | Document Verification, Providing log-in student credentials for online sessions, handling refunds, admission withdrawals, providing way forward intimations  |
| 3.     | Promotional and Communication Campaigns | Mass emailing, promotional mailers and WhatsApp  |
| 4.     | Academic Queries                        | <ul style="list-style-type: none"> <li>✓ Few broad categories under the cell:</li> <li>✓ Classroom Experience</li> <li>✓ Administrative / Attendance Recording Procedure</li> <li>✓ Concerns about Grades or other Academic Assessments</li> <li>✓ Specific Curricular issues</li> <li>✓ Criteria of Evaluation under the Program</li> <li>✓ Faculty member's actions that seem not to be consistent with the highest ideals of our community</li> <li>✓ Re-application for the Examination</li> <li>✓ For all procedures that are handled in the campus, preliminary we attempt to resolve issues on an informal and disciplinary basis, ensuring that those who are involved understand each other's point of view, before moving towards more formal procedures of redressal. In every situation, we seek to address issues in a timely manner at the most immediate level available, before moving up to higher levels of authority and responsibility.</li> </ul> |
| 5.     | Financial Requests                      | <p>The unit caters to the Centralized &amp; Decentralized Finance Facilities that provide assistance in fee Collection, Estate, Student Welfare, Housing facility fee, Board of Sports, Revaluation fee, Examination fee &amp; others. Students can reach out to us for</p> <ul style="list-style-type: none"> <li>✓ Student Education Loan Facility.</li> <li>✓ Delay in Fee submission.</li> <li>✓ Student Fee Concession (Dealt on a case-to-case basis)</li> <li>✓ Rebates / Grant for specific purposes</li> </ul>  |

|    |                    |  |
|----|--------------------|--|
| 6. | Housing Facilities | <p>A few broad areas for which the SFC office can be reached are:</p> <ul style="list-style-type: none"> <li>✓ Shared Living</li> <li>✓ Cleanliness, Health &amp; Feminine Hygiene</li> <li>✓ Dining</li> <li>✓ General Services and Laundry facilities</li> <li>✓ Security</li> </ul> <p>The entire housing facility is maintained by professional housekeeping and maintenance agencies with vast exposure to the corporate climate.</p> |
| 7. | Examination Aids   | <p>The student can seek aid from the '<i>Student Facilitation Centre</i> for any assistance in the following areas of the examination:</p> <ul style="list-style-type: none"> <li>✓ Revaluation and Verification of Marks</li> <li>✓ Reassessment of Answer Books</li> <li>✓ Academic Grievances</li> <li>✓ Administrative Grievances</li> <li>✓ Supplementary Examinations</li> </ul>   |
| 8. | General Queries    | <p>In case the right point of contact is not known for any query raised by a scholar, She/he is welcome to contact SFC to seek the correct guidance.</p>   |
| 9. | Campus Tours       | <p>The Admissions Facilitation Centre organizes Campus tours to acquaint the parents &amp; prospective students with the facilities offered at Manav Rachna. Various faculty members are also available to guide and explain the highlights to the visitors.</p> <p>In addition, special help to integrate International Students into campus life is available.</p>   |

**Additional Activities:** The centre undertakes the following activities on a regular basis to augment its vision:

| S. No. | Activity                   | Detail  |
|--------|----------------------------|---|
| 1.     | Manav Rachna Scholars      | The Scholarship holders of the fresh batch are felicitated in a glorious ceremony that formally inducts them as Manav Rachna Scholars.    |
| 2.     | Scholar Engagement Program | 100% of scholarship holders are called for Regular interaction and assigned small projects to assist central departments.                 |
| 3.     | Scholar Interaction        | Meeting with scholarship beneficiaries to brainstorm ideas for improvement of services and opportunities available to students on campus. |
| 4.     | Class Representative Meet  | For the exchange of thoughts with students at large and for the dissemination of information to the students                              |
| 5.     | Parent Engagement          | SFC organizes Parent Orientation sessions at the commencement of the Academic Year  |

SFC is readily available to students and parents via mobile and email services at +91 7303819911 / +91 7303829911 or [sfc@manavrachna.edu.in](mailto:sfc@manavrachna.edu.in)



## CHAPTER-6

### INFRASTRUCTURAL FACILITIES

#### 6.1 Dr. O.P. Bhalla Central Library

A University is usually described as a community where scholars and teachers are the head, students are the body and the library its heart. If the body is to perform its functions properly and efficiently its heart must be strong and efficient in its functioning. A well-equipped Library is an icon of quality education in its supreme form. This philosophy truly reflects @ Dr. O.P. Bhalla Central Library, MRIIRS offers a network of libraries and information centre for academics, learning and research pursuits.

The Library added 787 volumes of print books during AY 2021-22 and subscribed 12 online databases namely ASME, ASCE, J-Gate Engineering and Technology, J-Gate Social Science and Management, Ebsco DOSS, Ebsco Academic eBooks Collection, Ebsco Art and Architecture, Ebsco business source elite, Anti-plagiarism Software Turnitin & Urkund/Ouriginal, Mapmy access for remote access to the library e-Resources, SPSS Analysis Tool and institutional membership of digital consortia and professional bodies like Developing Library Network (DELNET), and INFLIBNET and National Digital Library of India (NDLI).

**The collection detail of the Library is as below:**

|  |   |
|--|---|
| Print Books                            | 1,20,799 Volumes, Titles 23173  |
| E-Books                                | 2,30817   |
| Print Journals and Magazines           | 184   |
| E-Journals                             | 63462   |
| Online Databases                       | 12  |
| E-Readers – Kindles                    | 16  |
| CDs and DVDs                           | 4256  |
| Project Reports                        | 3065  |
| Bound Journals                         | 1272  |
| Theses                                 | 185   |
| Library Portal                         | <a href="https://mriirs.edu.in/international-institute-of-research-and-studies/central-library/">https://mriirs.edu.in/international-institute-of-research-and-studies/central-library/</a> |
| Library Online Catalog                 | <a href="http://mriirs.bestbookbuddies.com/">http://mriirs.bestbookbuddies.com/</a>   |
| Remote Access to the Library Resources | <a href="https://mriirs.mapmyaccess.com/">https://mriirs.mapmyaccess.com/</a>   |
| Library Management Software            | KOHA – Open-Source Software   |

Strengthened the National Digital Library Initiative by promoting enrollment of ManavRachna Associates and Students to National Digital Library.



**Team-Library**

**Achievements: 2021-22:**

1. Paper titled "A Webometric Analysis of Institute of Management Technology and Birla Institute of Technology & Science Libraries Websites in Asia" published in UGC Listed Journal Library Herald. Vol.59 No.3, 260-271, September, 2021.
2. Dr. O P Bhalla Central Library organized One day Symposium on Role of INFLIBNET in Quality Control Processes of HEIs in collaboration with IQAC Cell on 31st December, 2021. Dr. J P Singh Joorel, Director INFLIBNET was the key note Speaker. Dr. K P Singh, Professor, DLIS, University was the Guest of Honor.
3. Dr. O P Bhalla Central Library organized One Day Workshop on "Open Source Library Software Koha and How library can transform lives" in collaboration with IQAC Cell on 26th March, 2022 for MRIIRS Faculty members. Mr. Sudhir Gandotra, CEO, BestBook Buddies was the Chief Guest and Keynote Speaker.
4. Book Titled "Remembering Late Dr. H Anil Kumar: A Distinguished Librarian, Scholar and A Visionary" released on 5th May, 2022 at KIIT University Bhubaneswar. Book Written by Dr. Rajesh Kumar and Dr. Rama Patnaik.
5. Presented a Paper titled "IMPLEMENTATION OF KOHA OPEN SOURCE LIBRARY MANAGEMENT SOFTWARE in Dr. O P Bhalla Central Library: A CASE STUDY" in International Conference on "Libraries of the Future: Emerging Trends" during May, 5-7, 2022 at KIIT, Bhubaneswar
6. Dr. O P Bhalla Central Library organized a One Day Awareness Program on "Total Quality Management in Library Services" in collaboration with IQAC Cell on 04th June, 2022 for MRIIRS Library Staff and Departmental Library Coordinators. Dr. Rajesh Kumar, University Librarian, MRIIRS was the Keynote Speaker.

## 6.2 IT Cell

MRIIRS has a dedicated Information and Communication Technology (ICT) Cell, which provides IT and Communication support to all the Faculties and Staff. The Cell plans, organizes & maintains all ICT equipment and campus wide networks for all the university departments / faculties. An in-house repair facility ensures that downtime is kept to the minimum. Indirectly, it contributes to optimal teaching learning process, besides ensuring a very high satisfaction level for the students and control on avoidable expenditures. MRIIRS has subscribed to Comprehensive Cloud based EMS from M/s Icloud Nxt, Pune that is a UMS (University Management System) which provides integrated solution to enhance and digitize the processes like Admissions, Transport, Hostel and students' academic life cycle management operations in the university. Students' attendance integrated with SMS and Email system, is used to inform parents / guardians about any default in attendance system of the pupil. The automation process includes online application for admission, conduction of assessment / admission test, preparation of merit list, allotment of batches and seats, collection of fee, etc. The process of ongoing need-based development on Campus Management System is planned for timetable, such as student's attendance, and administrative functions like HRMS, Payroll, Finance and Accounting, Purchase and Inventory, Facilities Management etc. Some of these modules are already in process and tested successfully. A blended Learning Management System ensures comprehensive academic support to the students in the form of study material consisting of lesson plans, class notes, assignments, stimulations, animations, assessment exercises etc.

This Year the University is emphasizing on "Swayam" and "MOOCS" implementation within the University. Central IT department is in the process of hosting an in-house web site which will provide all the information about the IT policies, acceptance of complaints and individuals will be able to see the status of their complaints. Moreover, this will have a facility of Micro-Blogging Site and will have departmental pages for broadcasting the departmental happenings. This will eventually bring an end to the need and the process of the mass mailing system.

**The detail of ICT facilities available at MRIIRS during the period under report are given below:**

- The University deploys excellent IT Infrastructure in carrying out activities like academic delivery, administration and services.
- The concept of Green Computing Pilot with Central Library.
- Desktops; Laptops; Printing facility
- Internet access through DHCP. 1000 mbps
- Firewall: Fortinet
- Multiple Wi-Fi Access Points: from Campus network owned by university and more than 120 paid services through Reliance JIO and Airtel.
- LAN facility (HP Procurve, HP POE, Fortinet).
- Physical security surveillance through CCTV covering indoor and outdoor.
- Prominent Applications software: IBM Rational Seed, STAAD PRO, RTOS, VLSI Design Tanner Tool Pro, Xilinx ISE 13.1, OR-CAD Engineering, Suite, MATLAB, Simulink with various toolboxes, LabView, Catia, Pro-E, Quarkxpress, Adobe Creative, Corel Draw, Sony Sound Forge, Prolog. MX roads, Microsoft Projects along with complete Microsoft Office 365 suite.
- The university campus is covered under Master Agreement with Microsoft for campus agreement for compliance of the Licenses to avoid any Software Piracy.

- LCD/LED Projectors.
- In-house Troubleshooting & Repair Centre.
- Dish Satellite system connected with Classroom Projectors for MOOCS and Swayam the Initiative by Govt of India for collaborative and enhanced training by the Indian premium Institutes.
- Email facilities to all staff, faculties and students for seamless communication.
- Video conferencing .
- Facility for hybrid and remote classroom faculty.
- Smart Board.
- Security visitor attendance and managed –software.

### 6.3 Healthcare Facilities:

Manav Rachna Campus provides an extensive array of Health and Welfare Services that are easily accessible. The university maintains a well-equipped Dispensary catering to both emergency situations and minor medical concerns. Within the campus premises, proficient Physicians and Nursing staff are available to manage medical emergencies effectively.

Furthermore, the university is equipped with two modern and fully equipped ambulances, ensuring rapid response to emergencies and ensuring the utmost level of medical safety for both staff and students. In addition to the on-campus First-Aid Room and separate sick rooms designated for male and female students, a cutting-edge Outpatient Physiotherapy Department is also available. The services of a Medical Consultant can be availed during specified hours on all working days.

#### Additional facilities include:

- ICICI Lombard General Insurance: Group Accident Policy Cover is extended to all Employees, Students, and Contractual Employees.
- Asian Hospital Tie-up: This partnership provides discounts on Medical Facilities for all Employees, their Dependents, and Students. The discounts can be utilized upon presentation of the ID card.
- Metro Hospital Tie-up: Similar to the Asian Hospital tie-up, this collaboration offers discounts on Medical Facilities for all Employees and Students of MRIIRS. The discounts can be availed by showing the ID card.

### 6.4 Sports Infrastructure

#### Sports Facilities:

**SQUASH COURT** - We have a wonderful Squash Court Laid by syncotts International with Maple Wood flooring, located at A Block 2nd Floor. This is equipped with lights & A.C facilities. The court is 9.75 meter long, **6.4 meter** wide, height 5.64 meter. Other sports facilities are also available such as Carrom & Chess boards.

**SHOOTING RANGE No-1** - We have a newly laid wonderful 25 Mtr. & 50 Mtr. Shooting Range facility at Staff Quarters MRIIRS Campus. It was inaugurated by Sh. Kiren Rijju, Sports Ministry, Govt. of India on 19th January 2021 at Manav Rachna International Institute of Research and Studies. The hon'ble Union minister for Sports Sh. Kiren Rijju inaugurated the first-of-its-kind 25 Mtr and 50 Mtr convertible shooting range at the Manav Rachna Campus.

**SHOOTING RANGE No- 2** - MRIIRS have two 10 Mtr. Fully A.C Shooting Ranges, one is having 13 Manual Target and second is known to be final range having 8 SIUS electronics targets with Monitors, which is equipped modern facility for Shooters as well as Spectators, including Locker Rooms, Modern Wash Rooms, Exercise area etc. at Q Block Basement.

**CRICKET GROUND** - The Cricket Ground in Campus is located in front of K & L Block This 40 x 40 meters lush green ground is equipped with flood lights and has 2 well maintained turf pitches.

**SOCCER GROUND** - We have a Modern Soccer Ground between Staff Quarters & Q Block (50 Mtr x 80 Mtr).

**INDOOR SPORTS ARENA** - We have a wonderful Indoor Sports Arena in the area of 7700 Square feet at Q Block Basement with the facilities of a Badminton Court, 6 T.T Tables, 3 Billiards Tables & 3 Pool Table & Indoor Gym. This sports arena is open to all the Manav Rachna Students and Hostellers from 8.00am to 8.00pm.

**VOLLEYBALL COURTS** - A Standard size Volleyball Court facility is available in MRIIRS Campus in front of B Block for Volleyball Players.

**BASKETBALL COURTS** - There are 3 standard size Basketball Courts in MRIIRS Campus. 1 Basketball Court is in front of E & F Block & 1 Basketball Court is in front of B Block & 1 Basketball Court is in front of International Boys Hostel. This facility is available for all the Manav Rachna Students & Hostellers from Morning to Evening.

#### Indoor Sports Arena: Table Tennis



28.451031892244153,  
77.28755081337802



28.450942618105685,  
77.28914893832916  
Entrance to Shooting Range



**Indoor Sport Arena: Indoor Gymnasium**



### Indoor Sports Arena: Billiards







## 6.5 Other Student Support Systems/Facilities

Cafeteria and Canteens are common hangouts for students in educational Institutions. MRIIRS Campus has many Cafeterias and Canteens which provide various Food Items in a Hygienic Environment, keeping in mind the varied taste of the students. Some of the popular Café and Canteens are given as under: Needs Supermart (International Boys Hostel), the latest addition to MRIIRS campus is Subway outlet and Hush Food court with multiple eatery options.





Manufacturing, Sports Rehabilitation etc. More recently, the Institution has created a 'Research and Innovation' culture at the Undergraduate level through Innovation & Incubation at MRIIC. **Also, to ignite young minds towards Research and innovation course has been introduced at UG Level with two credits Research Innovation Catalyst (RIC) for non-Engineering Students and Design Thinking and Innovation (DTI) for Engineering Students.**

## 7.2 Research Publications

It is important for any university to participate in the creation as well as the transmission of knowledge. The Western universities have been the centre of knowledge networks and the means of knowledge dissemination such as journals and scientific publication.

In the operation side, journals and scientific publications are not only the centre of latest knowledge dissemination but also act as essential links for the seasoned academicians to keep abreast on the development in their area and implicitly facilitate academicians with contemporary knowledge to be imparted to their students. Such deep-rooted importance on creation and transmission of knowledge has put scholarly publication as one of the most common performance indicators for most universities globally.

The number of publications has been one of the measurement values in the performance evaluation for higher education academicians. Over the years, the obligation to publish has amplified from not just getting published but also on getting published in high quality journal whereby the quality ranking is determined by publication categories. Publication that is recognized through peer review process signifies the legitimate platform for the research content to be discussed, challenged, referred and criticized by the community of the academia.

Authors who are mostly researchers and academicians must be capable of not only presenting their findings and claims but also capable of supporting and defending the proposed knowledge. The academic community embrace such culture of open knowledge discussion and this practice is vital in giving direction to the knowledge progression. Moving on from being a platform meant for knowledge discussion, publication has now become one of the most important performance indicators for Indian academician. "Publication count is an indicator of research productivity and is used to rank faculties and academic institutions... ascertain author's productivity ...or the publication productivity of research groups" and hence MRIIRS has necessitated that Scopus, WOS and ISI journals are included as the target for publication and also offer rewards to the authors in forms of 'seed money' or research grants for published research articles.

## 7.3 Government/ Industry Funded Research Projects

It is often said that the best place to invest money in a society is to invest it in educating the next generation, obviously in order to secure the future. Doing research is important because it contributes to knowledge, development, improvement etc. People who teach can do research in order to improve their competence and teaching and learning process. Also, research is important in our everyday life as it builds the graphic vision of life and ultimately the very philosophy of all subjects. Hence here at campus faculty members are encouraged to indulge in research and consultancy work for their growth.

- A Research grant of more than INR 1.51 crore has been received during 2021-22 for various Research projects and setting-up Research and Development facilities at MRIIRS. The details for these projects are as provided here:

| Name of the Scheme/Project/ Endowments/ Chairs   | Name of the Principal Investigator/ Co Investigator (if applicable) | Name of the Funding agency   | Type (Government/Non-Government) | Department        | Funds provided (INR in lakhs) | Duration of the project |
|--|---|--|----------------------------------|-------------------|-------------------------------|-------------------------|
| Co-solving water logging and groundwater depletion issue in parts of Faridabad Smart City using Underground Taming of Flood water for Aquifer Storage and Recovery | Arunangshu Mukherjee, Nidhi Didwania, Prntam Paritosh Paul          | DST, Ministry of Science & Technology, GOI                                       | Government                       | Biotechnology     | 15.47                         | 36 months               |
| Entrepreneurship Development Institute of India (EDII), through NSTEDB, DST, GOI   | Monika Goel, Bindu Agarwal & Mr. Karan                              | Entrepreneurship Development Institute of India (EDII), through NSTEDB, DST, GOI | Government                       | Commerce          | 60                            | 60 months               |
| Antecedents Leading To Capacity Building Of Women Entrepreneurs In Delhi, NCR  | Meghna Chhabra  | ICSSR-IMPRESS Project  | Government                       | Management        | 9                             | 24 months               |
| An Exploratory study of Ashapurna Devi and Suchitra Bhattacharya: Narratives of Resistance and Re-Assertion  | Shivani Vashist   | ICSSR, New Delhi   | Government                       | English           | 0.92                          | 12 months               |
| Elderly Care Framework in Contemporary India: Socio-Demographic, Entrepreneurial and Policy Implications   | Amit Seth, Manmeet Bali Nag, Anandjit Goswami, Anika Magan          | ICSSR, New Delhi   | Government                       | Management        | 4                             | 24 months               |
| Retrofit of Foundation of an Existing Structure  | Sunita Bansal   | EGIS India Consulting Engineers Pvt Ltd  | Non-Government                   | Civil Engineering | 1.73                          | 24 months               |
| Development of Water Quality Index   | Sadiqa Abbas  | EGIS India Consulting Engineers Pvt Ltd  | Non-Government                   | Civil Engineering | 1.33                          | 24 months               |
| Development of Air Quality Index   | Sadiqa Abbas  | EGIS India Consulting Engineers Pvt Ltd  | Non-Government                   | Civil Engineering | 0.78                          | 12 months               |
| Design of Viaduct for elevated Metro Rail  | Sunita Bansal   | EGIS India Consulting Engineers Pvt Ltd  | Non-Government                   | Civil Engineering | 1.5                           | 12 months               |
| Balance of Lanes Impacting Traffic Operation in Merging Area of AIMS Flyover, New Delhi  | Anjali Gupta  | EGIS India Consulting Engineers Pvt Ltd  | Non-Government                   | Civil Engineering | 1.75                          | 18 months               |
| Parametric Evaluation of Fibre reinforced concrete towards sustainable approach by using Taguchi's Method  | Yaman Hooda   | EGIS India Consulting Engineers Pvt Ltd  | Non-Government                   | Civil Engineering | 1.35                          | 10 months               |

|   |                    |   |                |                      |      |           |
|---|--------------------|---|----------------|----------------------|------|-----------|
| Experimental Study on the optimum design and performance of porous concrete         | Haobam Derit Singh | EGIS India Consulting Engineers Pvt Ltd | Non-Government | Civil Engineering    | 1.68 | 16 months |
| Feasibility Study on utilization of construction and demolition waste in road works | Anjali Gupta       | EGIS India Consulting Engineers Pvt Ltd | Non-Government | Civil Engineering    | 1.1  | 16 months |
| Durable and Strength Parameters of Sustainable Graphene Concrete                    | Yaman Hooda        | EGIS India Consulting Engineers Pvt Ltd | Non-Government | Civil Engineering    | 0.82 | 16 months |
| Mitigation Strategies for Urban Heat Island in Indian Context                       | Haobam Derit Singh | EGIS India Consulting Engineers Pvt Ltd | Non-Government | Civil Engineering    | 0.35 | 6 months  |
| Smart Dustbin Management System   | Tapas Kumar        | EGIS India Consulting Engineers Pvt Ltd | Non-Government | Computer Engineering | 0.56 | 8 months  |
| Early Land sliding Detection System using Artificial Intelligence                   | Poonam Tanwar      | EGIS India Consulting Engineers Pvt Ltd | Non-Government | Computer Engineering | 1.6  | 16 months |
| Development of Publication explorer using Cloud Computing                           | Indu Kashyap       | EGIS India Consulting Engineers Pvt Ltd | Non-Government | Computer Engineering | 0.46 | 6 months  |
| Development of mentoring portal using Artificial Intelligence.                      | Shweta Mongia      | EGIS India Consulting Engineers Pvt Ltd | Non-Government | Computer Engineering | 0.4  | 6 months  |
| Connecting People using AI based music Genre classification system                  | Nitasha Soni       | EGIS India Consulting Engineers Pvt Ltd | Non-Government | Computer Engineering | 0.55 | 8 months  |
| Study of Industrial Noise Pollution   | Devi Singh         | EGIS India Consulting Engineers Pvt Ltd | Non-Government | Applied Sciences     | 0.48 | 6 months  |
| Synthesis of materials for water treatment  | Jyoti Chawla       | EGIS India Consulting Engineers Pvt Ltd | Non-Government | Applied Sciences     | 1.29 | 12 months |
| Computational modeling for Diabetes Mellitus and control strategies                 | Deepak Kumar       | EGIS India Consulting Engineers Pvt Ltd | Non-Government | Applied Sciences     | 0.56 | 6 months  |
| Development of dye sensitized solar cells based on green materials                  | Sarvesh Kumar      | EGIS India Consulting Engineers Pvt Ltd | Non-Government | Applied Sciences     | 0.93 | 10 months |
| Choice Support System for the Selection of Diamond Among Various Brands             | Vijay Kumar        | EGIS India Consulting Engineers Pvt Ltd | Non-Government | Applied Sciences     | 0.78 | 14 months |
| Competitor analysis for digital presence  | Priyanka Singh     | Hare Krishna International Limited      | Non-Government | Management           | 0.5  | 6 months  |
| Social media marketing plan for creating awareness                                  | Shilpa Arora       | Hare Krishna International Limited      | Non-Government | Management           | 0.35 | 6 months  |
| Creating online presence with help of Digital marketing                             | Amandeep Dhaliwal  | Hare Krishna International Limited      | Non-Government | Management           | 0.47 | 6 months  |

|   |                         |   |                |               |      |           |
|---|-------------------------|---|----------------|---------------|------|-----------|
| Use of Social Media for increased Brand Awareness                               | Priyanka Singh          | Hare Krishna International Limited      | Non-Government | Management    | 0.23 | 6 months  |
| Assessing market potential through market research                              | Meghna Chhabra          | Hare Krishna International Limited      | Non-Government | Management    | 0.48 | 6 months  |
| Market Research and competitive analysis  | Meghna Chhabra          | Hare Krishna International Limited      | Non-Government | Management    | 0.85 | 12 months |
| Distribution channel development for market penetration                         | Gautam Srivastava       | Hare Krishna International Limited      | Non-Government | Management    | 0.51 | 12 months |
| A study on AI based Staffing solution in Private University System              | Anindita Chatterjee Rao | Hare Krishna International Limited      | Non-Government | Management    | 0.43 | 6 months  |
| Talent Management in IT industry 2022   | Farhat Mohsin           | Hare Krishna International Limited      | Non-Government | Management    | 0.71 | 10 months |
| Role of Talent aggregators in gig economy in organized economy                  | Anindita Chatterjee Rao | Hare Krishna International Limited      | Non-Government | Management    | 0.26 | 6 months  |
| Global Trade Finance Ecosystem: Opportunities and Challenges for MSMEs in India | Surbhi Kapoor           | Hare Krishna International Limited      | Non-Government | Management    | 0.66 | 8 months  |
| A study on Emerging Payment Systems post Covid pandemic across globe            | Ridhi Khattar           | Hare Krishna International Limited      | Non-Government | Management    | 0.46 | 6 months  |
| Women Empowerment and Microfinance- A study of Faridabad Region                 | Amit Seth               | Hare Krishna International Limited      | Non-Government | Business      | 0.3  | 6 months  |
| Digitization and Impact of Fintech on Financial Services Sector                 | Narender Tanwar         | Hare Krishna International Limited      | Non-Government | Business      | 0.27 | 6 months  |
| Impact of Covid 19 on Health Insurance sector in India                          | Anjali Singh            | Hare Krishna International Limited      | Non-Government | Business      | 0.4  | 6 months  |
| A Comparative Study of Performance of Selected Mutual Funds in India            | Bhavesh Prakash Joshi   | Hare Krishna International Limited      | Non-Government | Business      | 0.7  | 8 months  |
| Impact of Covid 19 on SME Financing in Faridabad                                | Monika Goel             | Hare Krishna International Limited      | Non-Government | Commerce      | 0.55 | 6 months  |
| Rising Inflation and Policy Response: 2021                                      | Jayender Verma          | Hare Krishna International Limited      | Non-Government | Commerce      | 0.62 | 8 months  |
| Capital Market: Asset Class forecast for 2022                                   | Preeti Chhabra          | Hare Krishna International Limited      | Non-Government | Commerce      | 0.53 | 6 months  |
| A study of Marketing Strategies of Systematic Investment Plans                  | Simran Kaur             | Hare Krishna International Limited      | Non-Government | Commerce      | 0.72 | 8 months  |
| Fractionation of Bioactive Compounds from Ethanolic extracts of Medicinal Plant | Abhilasha Shourie       | EGIS India Consulting Engineers Pvt Ltd | Non-Government | Biotechnology | 0.8  | 10months  |

|  |                |   |                |   |      |           |
|--|----------------|---|----------------|---|------|-----------|
| Experimental Investigations of electrochemical discharge drilling on advanced engineering materials. | B K Bhuyan     | EGIS India Consulting Engineers Pvt Ltd | Non-Government | Mechanical Engineering                  | 1.50 | 24 Months |
| Study of nanocoating and tribological aspects for composite materials                                | Jimmy Mehta    | EGIS India Consulting Engineers Pvt Ltd | Non-Government | Mechanical Engineering                  | 1    | 12 months |
| Parametric strength determination of steel fibre reinforced concrete                                 | Yaman Hooda    | EGIS India Consulting Engineers Pvt Ltd | Non-Government | Civil Engineering                       | 1.54 | 12 months |
| Assesment of Water Quality Index of Panhera Village  | Sadiqa Aabaas  | EGIS India Consulting Engineers Pvt Ltd | Non-Government | Civil Engineering                       | 0.8  | 6 months  |
| Traffic Monitoring System of Faridabad Smart City  | Sonal Saluja   | EGIS India Consulting Engineers Pvt Ltd | Non-Government | Civil Engineering                       | 0.75 | 6 months  |
| Medical Decision Support System for Common Diseases in Remote/ Hilly Area using Fuzzy Methods        | Vijay Kumar    | EGIS India Consulting Engineers Pvt Ltd | Non-Government | Applied Sciences                        | 1.15 | 12 months |
| Removal of contaminants from wastewater by the use of polymers                                       | Shagufta Jabin | EGIS India Consulting Engineers Pvt Ltd | Non-Government | Applied Sciences                        | 1.35 | 12 months |
| Design of power efficient flip flop in Nanometer technology  | Geeta Nijhawan | EGIS India Consulting Engineers Pvt Ltd | Non-Government | Electronics & Communication Engineering | 0.73 | 8 months  |
| Design and analysis of DGS based Fractal Antenna for meteorological satellites                       | Vimlesh Singh  | EGIS India Consulting Engineers Pvt Ltd | Non-Government | Electronics & Communication Engineering | 0.78 | 9 months  |
| Design of Novel fuzzy model for network selection in heterogenous networks                           | Pratima Manhas | EGIS India Consulting Engineers Pvt Ltd | Non-Government | Electronics & Communication Engineering | 0.55 | 7 months  |
| Analysis of different load balancing algorithms in cloud computing environment                       | Poonam Nandal  | EGIS India Consulting Engineers Pvt Ltd | Non-Government | Computer Science Engineering            | 0.85 | 6 months  |
| Enhancing behavioral dependency for rffective computing in software system                           | Deepa Bura     | EGIS India Consulting Engineers Pvt Ltd | Non-Government | Computer Science Engineering            | 0.7  | 6 months  |
| Biopesticid: Impact Assesment on Fungal Diseases of Tomato in Protected Cultivation                  | Nidhi Didwania | EC Blades Tools (P) Ltd                 | Non-Government | Biotechnology                           | 1.24 | 12months  |
| Design and Development of Abrasive Jet Machining of Metal Matrix Composites                          | Manoj Nayak    | EC Blades Tools (P) Ltd                 | Non-Government | Mechanical Engineering                  | 0.92 | 12Months  |
| Investigation of properties of CNT reinforced copper matrix composite for thermal applications       | Prabek Mittal  | EC Blades Tools (P) Ltd                 | Non-Government | Mechanical Engineering                  | 0.86 | 12Months  |

|   |                         |                         |                |   |      |           |
|---|-------------------------|-------------------------|----------------|---|------|-----------|
| Assessment of soil quality nearby Bandhwari landfill.   | Arjali Gupta            | EC Blades Tools (P) Ltd | Non-Government | Civil Engineering                       | 0.9  | 8 months  |
| Impact and fatigue wear analysis of biodegradable composite materials.  | Nitin Waghmare          | EC Blades Tools (P) Ltd | Non-Government | Automobile Engineering                  | 0.85 | 8Months   |
| Effect of irregularities in seismic behaviour of structures.  | Haobam Derit            | EC Blades Tools (P) Ltd | Non-Government | Civil Engineering                       | 1    | 10 months |
| Vanadium dioxide films for smart windows  | Kapil Gupta             | EC Blades Tools (P) Ltd | Non-Government | Applied Sciences                        | 0.8  | 12 months |
| Natural materials for removal of heavy metals from water  | Rajeev Kumar            | EC Blades Tools (P) Ltd | Non-Government | Applied Sciences                        | 0.9  | 12 months |
| Removal of arsenic using green materials.   | Jyoti Chawla            | EC Blades Tools (P) Ltd | Non-Government | Applied Sciences                        | 0.72 | 12 months |
| Performance evaluation of Microgrid with machine learning based PID controller                                | Jyoti Verma             | EC Blades Tools (P) Ltd | Non-Government | Electronics & Communication Engineering | 0.71 | 8 months  |
| Adaptive clustering- An optimal solution to Hotspot issue in wireless sensor networks                         | Abhiruchi Passi         | EC Blades Tools (P) Ltd | Non-Government | Electronics & Communication Engineering | 0.75 | 10 months |
| Spoken word recognition system using packed-MFCC  | RC Sahoo                | EC Blades Tools (P) Ltd | Non-Government | Computer Science Engineering            | 0.8  | 6 months  |
| Neuro Linguistic Programming Techniques Performance Analysis using Confusion matrix                           | Supriya Panda           | EC Blades Tools (P) Ltd | Non-Government | Computer Science Engineering            | 0.5  | 6 months  |
| Radical activity identification on social digital platform: A machine learning approach                       | Suresh Kumar            | EC Blades Tools (P) Ltd | Non-Government | Computer Science Engineering            | 0.93 | 6 months  |
| Role of Polyamines on different varieties of <i>Lycopersicon esculentum</i> under multiple stress conditions. | Charu Rajpal            | EC Blades Tools (P) Ltd | Non-Government | Biotechnology                           | 0.76 | 12 months |
| Role of ratio analysis in predicting financial performance  | Ridhi Khattar           | EC Blades Tools (P) Ltd | Non-Government | Management                              | 0.48 | 12 months |
| Managing HR through Talent Management Inventory   | Swati Punjani           | EC Blades Tools (P) Ltd | Non-Government | Management                              | 0.78 | 12 months |
| Analysis of Market Potential for New Product Development  | Gautam Srivastava       | EC Blades Tools (P) Ltd | Non-Government | Management                              | 0.61 | 12 months |
| Creating online visibility for Market awareness   | Priyanka Singh          | EC Blades Tools (P) Ltd | Non-Government | Management                              | 0.63 | 12 months |
| Developing balanced scorecard for strategic management of HR  | Anindita Chatterjee Rao | EC Blades Tools (P) Ltd | Non-Government | Management                              | 0.57 | 12 months |

|   |                            |                         |                |                       |      |           |
|---|----------------------------|-------------------------|----------------|-----------------------|------|-----------|
| Nutritional and sensory attributes of products development from Ashwagandha for: Hypothyroidism                   | Priya Mishra               | EC Blades Tools (P) Ltd | Non-Government | Nutrition and Dietics | 0.56 | 6 months  |
| Impact of wheat grass based drink on the performance of athletes  | Gurseen Rakhra             | EC Blades Tools (P) Ltd | Non-Government | Nutrition and Dietics | 0.52 | 6 months  |
| Impact of rice processing on resistant starch and Postprandial glucose levels                                     | Madhvi Awasthi             | EC Blades Tools (P) Ltd | Non-Government | Nutrition and Dietics | 0.45 | 6 months  |
| A Comparative digital occlusal analysis of conventional complete denture and single implant supported overdenture | Neha Jain & Harsimran Kaur | EC Blades Tools (P) Ltd | Non-Government | Dental Science        | 0.87 | 18 months |
| Development and Characterization of Nanoparticle coated guttapercha. An ex-vivo study                             | Alpa Gupta                 | EC Blades Tools (P) Ltd | Non-Government | Dental Science        | 0.94 | 24 months |
| To compare the effect of myokine release and petrissage on delayed onset muscle soreness                          | Sanjeev Gupta              | EC Blades Tools (P) Ltd | Non-Government | Physiotherapy         | 0.68 | 12 months |
| Effect of core stability training on, dynamic stability and endurance in volleyball players                       | Shobhit Saxena             | EC Blades Tools (P) Ltd | Non-Government | Physiotherapy         | 0.55 | 10 months |
| Effect of resistance training on central fatigue, muscle fitness and power in college students                    | Sneha Chakraverty          | EC Blades Tools (P) Ltd | Non-Government | Physiotherapy         | 0.72 | 14 months |

## 7.4 Consultancy

A Consultancy worth more than INR 299.53 lakhs was undertaken by faculty members of MRIIRS during AY 2021-22 for various projects including:

### Revenue generated from consultancy during the year 2021-22

| Name of the consultant  | Name of consultancy project   | Consulting/Sponsoring agency with contact details  | Revenue generated (INR in Lakhs) |
|---|---|--|----------------------------------|
| Dr Dipankar Saha,<br>Dr Sarita Sachdeva,<br>Dr Arunangshu Mukherjee | Jal Jevan Mission - SISA, Water Supply  | PHED - Government of Haryana   | 11.51                            |
| Dr Dipankar Saha,<br>Dr Sarita Sachdeva,<br>Dr Arunangshu Mukherjee | Haryana Atal Bhujal Yagna Cluster-06 for District Faridabad, Rewari and Block Khol                        | IWRD- Government of Haryana  | 21.55                            |
| Dr Dipankar Saha,<br>Dr Sarita Sachdeva,<br>Dr Arunangshu Mukherjee | Haryana Atal Bhujal Yagna Cluster-07 for District Palwal Block Palwal, Hassanpur, Hathin, Hodal           | IWRD- Government of Haryana  | 35.99                            |
| Sarita Sachdeva, D K Chadha, A Mukherji                             | Hydrogeological Survey Aquifer Monitoring in Barmer, Rajasthan of Cairn Oil and Gas Vedanta Ltd, PHASE-II | Vedanta Limited, 1st Floor, C Wing, Unit 103, Corporate Avenue, Atul Projects, Chakala, Andheri (East), Mumbai, 400093 | 52.83                            |
| Dr Arunangshu Mukherjee, Director MRCAWTM, MRIIRS                   | Study for Rainwater harvesting around Iron ore mine of Dholta Pahar, Sundergarh, Odissa                   | World Consultancy Servises, Bhubneshwar, Director, Pradeept Mohapatra, pradeept@theworld.co.in                         | 0.33                             |
| Dr Arunangshu Mukherjee, Director MRCAWTM, MRIIRS                   | Study for Rainwater harvesting around Iron ore mine of Netrabandh Pahar, Sundergarh, Odissa               | World Consultancy Servises, Bhubneshwar, Director, Pradeept Mohapatra, pradeept@theworld.co.in                         | 0.33                             |
| Dr Arunangshu Mukherjee, Director MRCAWTM, MRIIRS                   | Biodiversity study around Iron ore mine of Dholta Pahar, Sundergarh, Odissa                               | World Consultancy Servises, Bhubneshwar, Director, Pradeept Mohapatra, pradeept@theworld.co.in                         | 0.33                             |
| Dr Arunangshu Mukherjee, Director MRCAWTM, MRIIRS                   | Impact assessment of underground mining of Manganese on GW in and around Miragpur, MP.                    | M/s D P Rai, Nanhka, Ramdaspat, Nagpur, dprai.mines@gmail.com  | 2                                |

|  |  |  |        |
|--|--|--|--------|
| Dr Arunangshu Mukherjee, Director MRCATM, MRIIRS | Impact assessment of underground mining of Manganese on GW in and around Pandarwani, MP.                               | M/s D P Rai, Nanhka, Ramdaspat, Nagpur, dprai.mines@gmail.com                              | 2      |
| Monika Goel                                      | Learning and Training Interventions  | Ernst and Young LLP, Golf View Corporate Tower-B, Sector-42, Sector Road, Gurugram, 122002 | 24.8   |
| Anandita Chatterjee Rao                          | Background Verification Process for Recruitment  | Royal Buildmart Pvt. Ltd, B-464, Gate no.4, Green Field Colony, Faridabad, 121010, Haryana | 0.3    |
| Arun Deep Singh                                  | Dental Consultancy in OPD  | OPD Patients from Faridabad District and nearby areas                                      | 106.02 |
| Shruti Jain, Brijesh Kumar                       | Architectural, Interior Design and Computer Networking layout of Wellness Centre at GSSS M.GARH                        | Dr. O.P. Bhalla Foundation   | 0.7    |
| Ashish Grover, Suresh Kumar                      | Design of Electrical and Computer Networking Layout of Computer Centre at GSSS SEC 4/7, Gurgaon                        | Dr. O.P. Bhalla Foundation   | 0.6    |
| Shruti Jain, Brijesh Kumar                       | Architectural, Interior Design and Computer Networking layout of Wellness Centre at GMSSS (SARTHAK) SEC 12 A Panchkula | Dr. O.P. Bhalla Foundation   | 0.7    |
| Shruti Jain, Brijesh Kumar                       | Architectural, Interior Design and Computer Networking layout of Wellness Centre at GDSSS Bahadurgarh                  | Dr. O.P. Bhalla Foundation   | 0.7    |
| Shruti Jain, Brijesh Kumar                       | Architectural, Interior Design and Computer Networking layout of Wellness Centre at GGSSS NIT NO.01 Faridabad          | Dr. O.P. Bhalla Foundation   | 0.6    |
| Dr. Ashish Grover, Dr Suresh Kumar               | Design of Electrical and Computer Networking Layout of Computer Centre at GGSSS, Alawalpur, Palwal                     | Dr. O.P. Bhalla Foundation   | 0.6    |

|                                |  |  |     |
|--------------------------------|--|--|-----|
| Shruti Jain, Brijesh Kumar     | Architectural, Interior Design and Computer Networking layout of Wellness Centre at GMSSS in Applied Learning Skills, Sec.28 Faridabad | Dr. O.P. Bhalla Foundation   | 0.6 |
| Shruti Jain, Brijesh Kumar     | Architectural, Interior Design and Computer Networking layout of Wellness Centre at GSSS CARTERPURI Gurgaon                            | Dr. O.P. Bhalla Foundation   | 0.6 |
| Shruti Jain, Brijesh Kumar     | Architectural, Interior Design and Computer Networking layout of Wellness Centre at GGSSS Baraut, Kurukshetra                          | Dr. O.P. Bhalla Foundation   | 0.7 |
| Shruti Jain, Brijesh Kumar     | Architectural, Interior Design and Computer Networking layout of Wellness Centre at GGSSS Baraut, Kurukshetra                          | Dr. O.P. Bhalla Foundation   | 0.7 |
| Shruti Jain, Brijesh Kumar     | Architectural, Interior Design and Computer Networking layout of Wellness Centre at GSSS, Jhanj Kalan, Jind                            | Dr. O.P. Bhalla Foundation   | 0.7 |
| Ashish Grover, Suresh Kumar    | Design of Electrical and Computer Networking Layout of Computer Centre at GSSS GSSS, Kasan, Gurgaon                                    | Dr. O.P. Bhalla Foundation   | 0.6 |
| Ashish Grover, Suresh Kumar    | Design of Electrical and Computer Networking Layout of Computer Centre at GGSSS NIT. 05, Faridabad                                     | Dr. O.P. Bhalla Foundation   | 0.6 |
| Ashish Grover, Suresh Kumar    | Design of Electrical and Computer Networking Layout of Computer Centre at GSSS, Alawalpur, Palwal                                      | Dr. O.P. Bhalla Foundation   | 0.6 |
| Nitesh Malhotra, Ankita Sharma | Sports Physiotherapy and Rehabilitation towards Injury Management  | Kho-Kho Federation of India, B1 Basement, Dhawandeep Building-6, Jantar Mantar Road, New Delhi, 110001 | 20  |
| Divya Sanghi and Team          | Sports and individual specific nutritional guidance  | Kho-Kho Federation of India, B1 Basement, Dhawandeep Building-6, Jantar Mantar Road, New Delhi, 110001 |     |
| Jayant Sundaresan              | Stress Management and Holistic Development   | Kho-Kho Federation of India, B1 Basement, Dhawandeep Building-6, Jantar Mantar Road, New Delhi, 110001 |     |

### Revenue generated from corporate training during the year 2021-22

| Names of the teacher-consultants/corporate trainers | Title of the corporate training program | Agency seeking training with contact details   | Revenue generated (amount in rupees) | Number of trainees |
|---|---|--|--------------------------------------|--------------------|
| Ridhi Khattar                                       | Leadership and Team Building            | Maruti Suzuki Ltd. No Rz 123, Vaishali, Palam Dabri Marg, Dwarka, Delhi 110045   | 30000                                | 11                 |
| Stuti Sahani  | Leadership and Team Building            | Escorts Construction Equipment SEC 13, Faridabad, Haryana 121001   | 30000                                | 12                 |
| Priyanka Singh                                      | Leadership and Team Building            | IIFL Wealth Management GYS Platinum, D-3, Saket District Center, New Delhi, Delhi 110017   | 30000                                | 11                 |
| Gautam Srivastava                                   | Leadership and Team Building            | TCS, Noida, 20 & 21, Noida-Greater Noida Expressway, Near Infospace, Sector 135, Noida, Uttar Pradesh 201304                           | 30000                                | 10                 |
| Anindita Chattarjee Rao                             | Leadership and Team Building            | JCB India Limited, 23/7, Mathura Rd, Ballabgarh, Faridabad, Haryana 121004 ~15.3 km  | 30000                                | 11                 |
| Farhat Mohsin                                       | Leadership and Team Building            | Sarvodaya Hospital, Sec-19, Gopi Colony Old Faridabad, Faridabad, Haryana 121002   | 30000                                | 11                 |
| Ridhi Khattar                                       | Leadership and Team Building            | Honda Car, Sector 41 Road, Sector 41, Noida, Uttar Pradesh 201306  | 30000                                | 9                  |
| Gautam Srivastava                                   | Leadership and Team Building            | Hero MotoCorp, 501/2, Mehrauli Road, Gurugram, Haryana 122001  | 30000                                | 10                 |
| Ridhi Khattar                                       | Leadership and Team Building            | NHPC Ltd Corporate Communication, Old Shershah Suri Road, Near National Power Training Institute, Sector 33, Faridabad, Haryana 121001 | 30000                                | 13                 |
| Farhat Mohsin                                       | Leadership and Team Building            | Action Construction Equipment Limited, 378, Sector 15, Faridabad, Haryana 121007   | 30000                                | 9                  |

|                         |   |  |        |     |
|-------------------------|---|--|--------|-----|
| Gautam Srivastava       | Leadership and Team Building                                  | Honda Motorcycle, Commercial Complex II, Golf Course Extension Road, Nirvana Country, Sector 49, Gurugram, Haryana 122101                | 30000  | 9   |
| Ridhi Khattar           | Leadership and Team Building                                  | National Highways Authority of India, D 70 Sector, V I I Dwarka, Delhi 110045  | 30000  | 11  |
| Farhat Mohsin           | Leadership and Team Building                                  | KPMG, Vishwakarma Road, Near Shree Shani Mandir, DLF Phase 3, Sector 24, Gurugram, Haryana 122010  | 30000  | 9   |
| Anindita Chattarjee Rao | Leadership and Team Building                                  | Indian Oil (R&D), Ground Floor, Kunj Road, Sehatpur, Kheri Kalindi, Amarnagar, Faridabad, Haryana 121003                                 | 30000  | 12  |
| Farhat Mohsin           | Leadership and Team Building                                  | Knorr-Bremse, 51 Mathura Road, 4 KM Stone, Palwal, Haryana 121102  | 30000  | 10  |
| Gautam Srivastava       | Leadership and Team Building                                  | Dabur, D.R. Barman Marg, Near Rose Garden, Ram Nagar, Kaushambi, Noida, Uttar Pradesh 201010   | 30000  | 9   |
| Anindita Chattarjee Rao | Leadership and Team Building                                  | Accord Superspeciality Hospital, Sector 86, Faridabad, Haryana 121002  | 30000  | 9   |
| Anindita Chattarjee Rao | Leadership and Team Building                                  | Gates India Private Limited, 3rd Floor, Building No 10, Tower C, DLF Cyber City, Phase II, Gurugram, Haryana 122002                      | 30000  | 10  |
| Ridhi Khattar           | Leadership and Team Building                                  | SEC-RJMT Engineering Private Limited, Plot No 1a, Unit No 11, G.f, Gali No 2, Piyala Road, Seekri, Ballabgarh, Faridabad, Haryana 121004 | 30000  | 9   |
| Anita Khosla            | AMIE Section-B Practical Training & Evaluation Summer Session | Associate Member of Institution of Engineers.(AMIE) by Institution of Engineers(INDIA)   | 684000 | 190 |

## 7.5 Research Incubator

As an integral part of student's growth in research and development, MRIIRS is proudly carrying out student driven research programme at B. Tech level from past few years. Since its launch at 2016, Research Incubator programme remains thoroughly focused and dedicated towards yielding several path-breaking research and innovation activities.

## 7.6 Business Incubator

Manav Rachna Business Incubator (MRBI) is nurturing and overseeing innovation and entrepreneurship at Manav Rachna Campus. With a rich tradition of incubation through bodies such as the New Gen Innovation and Entrepreneurship Development Centre has also pioneered innovation with groups such as the E-cell, MRBI will leverage these experiences and give entrepreneurship a stronger push as well as serve to coordinate and promote innovation-driven activities at the institute. MRIIRS has been granted financial support of Rs. 2.87 Crores from DST-NESTEDB, Govt. of India for setting up of a Manav Rachna New Generation Innovation and Entrepreneurship Development Centre (MRNewGen-IEDC) in the campus to nurture student- entrepreneurial ventures. It's physical working space is more than 5000 sq. feet area with latest amenities including internet, Wi-Fi, conference rooms, multimedia projector, pantry, and recreational area. Each startup incubated at campus, receives funding of Rs. 2.5 Lakhs for the developmental work along with recurring grant. Several startups have been incubated last year. Some of the notable incubated startups of Manav Rachna students under the banner of MRBI, are given below:

**1. Techno Planet Lab Pvt. Ltd.** This is a company working in education space to develop new age tools, technologies and programs to create engaging K-12 learning experiences with an ultimate objective to revolutionizing education. In 21st century, technological advancements are rapidly disrupting industries with new trends evolving like self-driving cars; digital shopping; virtual worlds; life on mars. Envisioning how these disruptions will play out in our children's lives opens up a whole lot of new questions, and necessitates paradigm shifts in how we are thinking about education today. Our offering for Atal Tinkering Lab is based on creating an environment that promotes the participants to dream, the equipment allows them to tinker, the curriculum enables them to structure their thinking and the Innovation League allows them to challenge themselves. They offer equipments and solutions to setup the Atal Tinkering Labs as envisioned by NITI Aayog.

[www.http://technoplanetlab.com](http://technoplanetlab.com). (Matured and Exited)



**2. HyFn Games Pvt. Ltd.** The mission of HyFn games is to create games of science fiction genre. Besides the obvious entertainment that games provide, they also create the base for young people to learn. This learning happens automatically while playing the game. Their flagship product "SpaceTrap-3D" was launched on PlayStore in 2017. Besides game development, HyFn Games has also ventured into the field of Virtual Reality bagging projects like Campus Walkthroughs for various companies. They plan to work in the field of Artificial Intelligence and Augement Reality in upcoming future. Team: RakeshSethi, YugankRastogi, Mudra Rastogi, VishangJad, Adhiraj Mathur, Shaurya Singh. Stage: The Company is running smoothly having a good number of projects in hand.



**3. Tricho Agronica Pvt. Ltd.** the Start-Up has received a grant of Rs 172 lacs under Indian Oil Startup Scheme (IOSUS), a "Start-up India" initiative announced by Prime Minister Shri Narendra Modi. The vision of the company is to provide Lab to Land- an eco-friendly approach. It aims to promote, develop and provide eco friendly products and technologies in safer, cost effective and sustainable manner. Keeping these perspectives in view the company has designed its first bio formulation product 'Bio elixir' which is a remedy for bull's eye pathogen at low cost. The synergistic effect of the bio elixir constituents has the capability to increase systemic resistance in plants. It is the bio fertilizer and a bio fungicide formulation. It is a non-chemical based formulation to reduce disease of tomato plant combining with features for enhancing soil structure and fertility, maintaining soil biological activities and promoting plant growth & biomass.

**4. Parimukh Innovations Pvt. Ltd.**

Team of engineers from various background and expertise took the problem of Air Pollution and other environmental problem to be tackled with engineering products. Our environment is in continuous havoc like situation and if we don't give our attention to this our future generation will be suffered, it's the time when technology has to be created and implemented to protect our city lives. Team Parimukh is catering this, with their knowledge and experience from different sector they have already developed and offering PARIYAYANTRA Air filtration system and working on different technologies as well.





**Eighteen new start-ups have been funded and are already in place under New Gen IEDC Funding Scheme. The list mentioned below:**

| Incubation Centre        | Team Members                        | Sponsored By | Name of the Start-up          | Nature of the Start-ups | Date of the Start-up |
|--------------------------|-------------------------------------|--------------|-------------------------------|-------------------------|----------------------|
| NewGen IEDC Manav Rachna | Muskan                              | NSTEDB, DST  | Eat Me                        | Food and Sciences       | 7/6/2021             |
| NewGen IEDC Manav Rachna | Vanshika Mittal, Anshita Singla     | NSTEDB, DST  | Soil Health Monitor           | Electrical              | 7/6/2021             |
| NewGen IEDC Manav Rachna | Pranab Pradhan, Mohit Sharma        | NSTEDB, DST  | Gymmi                         | It                      | 15-07-2021           |
| NewGen IEDC Manav Rachna | Sudhanshu Jha, Joy                  | NSTEDB, DST  | Stallion                      | Electronic              | 15-07-2021           |
| NewGen IEDC Manav Rachna | Ayush, Divyanshi                    | NSTEDB, DST  | DNA Adda                      | It                      | 15-07-2021           |
| NewGen IEDC Manav Rachna | Sonakshi Mittal, Kechane Apon       | NSTEDB, DST  | Poshan Twigs                  | Food And Sciences       | 15-07-2021           |
| NewGen IEDC Manav Rachna | Aman                                | NSTEDB, DST  | MyGarage                      | Saas                    | 29-09-2021           |
| NewGen IEDC Manav Rachna | Muskan, Priyanka, Kavita            | NSTEDB, DST  | Bacteriocin                   | Biotechnology           | 29-09-2021           |
| NewGen IEDC Manav Rachna | Vikas, Sarthak                      | NSTEDB, DST  | Innominate(Logicyard Pvt Ltd) | It                      | 21-10-2021           |
| NewGen IEDC Manav Rachna | Sumit yadav, Gautam Kumar           | NSTEDB, DST  | EVX                           | Electronic              | 21-10-2021           |
| NewGen IEDC Manav Rachna | Gautam Yadav                        | NSTEDB, DST  | Gen Stark Object Identifier   | Electronic              | 11/2/2022            |
| NewGen IEDC Manav Rachna | Priya Kapur, Dogga Shyam Sai Prasad | NSTEDB, DST  | Ultra Fast EV Charger         | Electronic              | 16-03-2022           |
| NewGen IEDC Manav Rachna | Pawan, Ashutosh                     | NSTEDB, DST  | TruFit Kitchen                | Electronic              | 14-04-2022           |
| NewGen IEDC Manav Rachna | Adiya                               | NSTEDB, DST  | Chitrabhoomi                  | Podcast and Comic       | 12/5/2022            |
| NewGen IEDC Manav Rachna | Rahul Saini                         | NSTEDB, DST  | FMDV                          | Biotechnology           | 8/6/2022             |
| NewGen IEDC Manav Rachna | Babita                              | NSTEDB, DST  | Second life inning            | Saas                    | 19-07-2022           |
| NewGen IEDC Manav Rachna | Shivam                              | NSTEDB, DST  | Ratiram Limbs                 | Life Electronic         | 19-07-2022           |
| NewGen IEDC Manav Rachna | Rakshit                             | NSTEDB, DST  | Finntrust                     | Finance                 | 12/8/2022            |

| Number of start-ups incubated on campus Matured as Limited Liability Partnership |  |                              |                                     |  |
|--|--|------------------------------|-------------------------------------|--|
| Incubation Centre  | Team Members                                     | Sponsored By                 | Name of Start-up                    | Nature of Start-ups  |
| MRIIC  | Ayush Mohan, Kartik Rampal                       | Registered as Pvt. Ltd. Firm | M/s Tackyon Motors Sports Pvt. Ltd. | In design and development of Electric Scooter                            |
| MRIIC  | Mr. Mohit Bahl, Mr. Manasvi Sihag                | MRIIC                        | TechnoPlanet Labs Pvt Ltd           | Setting up ATIs and providing STEAM trainings to school students.        |
| MRIIC  | Mr. Rakesh Sethi, Mr. Yugank Rastogi             | MRIIC                        | Hyfn Games Pvt Ltd                  | Cross Platform Game Development and Virtual-reality project outsourcing. |
| MRIIC  | Mr. B.S Gill, Mr. Amit Kumar, Ms. Prachie Sharma | MRIIC                        | Parimukh Innovations                | Air Filtering Device   |
| NewGen IEDC Manav Rachna   | Mohit Dhariwal Anshu Jha Pranav Jha              | DST, NSTEDB, GOI             | Halestain Food Labs (Nature's Drop) | Natural and Healthy Beverage   |
| NewGen IEDC Manav Rachna   | Sunash Malik, Vaibhav Dagar, Yash Kaushik        | DST, NSTEDB, GOI             | Synsalus technoMed                  | Medical Data Management  |
| Manav Rachna Business Incubator  | Sahil Tanwar, Mukul Phogat                       | DST, NSTEDB, GOI             | Thap Krida                          | Mobile Games developer   |

### 7.7 Patents Published/Granted during AY 2021-22

MRIIRS encourages its faculty members and students to file the patents in different fields. The details of Patents published/granted during the year 2021-22 are as follows:

| Name of the Teacher   | Patent Number | Title of the patent  |
|---|---------------|--|
| Neeraj Kumari   | 2021103950    | A Skill Matrix System and Method for Job Recruitment   |
| Neeraj Kumari   | 2021103951    | A System and Method for Strategic Consulting Group (SCG) Matrix  |
| Meeta Singh, Poonam Nandal, Deepa Bura, Srishty                     | 2021103320    | A System and Method for Predicting Secure and Safe Route for Women Using Navigation Map                          |
| Mohit Chaudhary   | 2021102957    | A System and Method for Predicting the Stock Market News Sentiments Using Machine Learning                       |
| Poonam Tanwar   | 2021101996    | Nutrient Deficiency Stress Detection and Prediction in Corn Fields from Aerial Images Using Machine Learning.    |
| Savita Sindhu   | 2021101069    | Intelligent-Sim: Multiple Company Mobile Number Installed in Single Sim  |
| Brijesh Kumar   | 2021100325    | In-Bed Exercising and Monitoring Device  |
| Brijesh Kumar   | 2020104395    | Self-Sanitizing Attendance Recorder with Thermal Screening   |
| Bhupinder Singh Gill, Victor Gambhir                                | 1752/DEL/2012 | Self-Back-Flushed Filter System for Water  |
| Meeta Singh, Poonam Chahal, Deepa Bura                              | 2020103648    | Isp- Crime Site Analysis: Intelligent Method and Process of Performing Crime Site Analysis And Management System |
| Poonam Tanwar, Rashmi Rameshwari, Ms. Shweta Sharma                 | 202111061914  | Hand Sanitization Apparatus  |
| Umesh Dutta, Dr Nitasha Soni, Anjali Gupta                          | 202111061512  | Digital Parking Ticket   |
| Manoj Nayak, Suresh Kumar, Vimlesh Singh                            | 202111061515  | Smart Table  |
| G L Khanna, Moattar Raza Rizvi, Dr Adhikarla Syama                  | 202111061516  | System And Method for Early Cardiovascular Risk Prediction and Risk Classification                               |
| Pradeep Kumar, Devendra Vashist, Leena G                            | 202111061514  | Border Surveillance System   |
| Anita Khosla, Richa, Sadiqa Abbas                                   | 202111061517  | Wind Energy Generator  |
| G L Khanna, Puneet Batra, Amit Seth, Shilpa Arora, Kanchan Bhardwaj | 202111061513  | Health Monitoring System   |
| Sabiha Imraan, Sarita Sachdeva, Jyoti Chawla                        | 202111061510  | Method For Development of Analytical Technique for Quantitative Analysis Of Antibiotic Residues                  |

|   |               |   |
|---|---------------|---|
| Sarita Sachdeva, Sunita Bansal  | 202111061511  | System And Method of Gauging Effect of Quality Of Water On Concrete Structures                              |
| Sonal Bhugra, Yaman Hooda, Col.Sanjeev Gupta  | 202111061912  | Unified Public Transportation System  |
| Sonal Bhugra, Arko Bagchi, Jyoti Verma, Arvind Dalal                                | 202111061913  | Central Traffic Control System and Method   |
| Devender Vashisht, Pankaj Shakkärwal, Sunny Bhatia                                  | 202111061911  | Plug-In Hybrid Electric Vehicles Powered On- Wheel Medical Oxygen Generator for Covid-19 Patient            |
| Nitesh Malhotra, Shishir Nigam  | 202111061916  | Apparatus For an Anterior Cruciate Ligament (ACL) Reconstruction Procedure                                  |
| Abhiruchi Passi, Ashish Grover  | 202111061915  | Solar Time Synchronization System   |
| Pradeep Kumar, Geeta Nijhawan, Supriya P Panda                                      | 202111061917  | Artificial Intelligence Based Automatic Diagnostic System   |
| Madhumita Kathuria, Parul Gandhi  | 202111055367  | A Machine Learning Based System for Agricultural Products to Predict Quality And Method Thereof             |
| Vinay, Sunny Bhatla, Nitin Waghmare   | 202111053278  | Mechanized Retail Store Comprising 3D Printed Autonomous Home Delivery Drone                                |
| Neha Batra  | 202111046254A | A System for Monitoring Social Distance and Generating Alerts Using IoT                                     |
| Indu Kashyap, Rachna Behl, Madhumita Kathuria                                       | 202111015819  | A Data Mining System for Demonstration and Determination of Mixing Various Chemical Composition Publication |
| Priyanka Grover, Poonam Katyal, Neha Batra, Pinki Sagar, Indu Kashyap, Parul Gandhi | 202111017848  | An Image Processing Device and System for Screening of Medical Equipment                                    |
| Pinki Sagar   | 202131017275  | IoT Based System for Monitoring and Notification for Usage of Liquefied Petroleum Gas                       |
| Meghna Chhabra  | 20210179159   | LSM Luggage Trolleys: Intelligent Shopping Mall Luggage Trolleys  |
| Rachna Behl, Dr Indu Kashyap  | 202041047364  | Enhanced Fingerprint Authentication System by Gabor Filter and Classification Dictionaries Learning         |
| Anita Khosla, Ashish Grover, Richa Adlakha  | 202011045281  | A System for Solar Radiation Estimation for Solar Based Power System and Method Thereof                     |
| Anita Khosla  | 202011043528  | An Irrigation System with IoT Connectivity  |

|  |              |  |
|--|--------------|--|
| Meeta Singh, Poonam Chahal,<br>Deepa Bura, Srishty                                     | 202011040606 | Smart Call Swapper for Portable Terminals  |
| Anita Khosla, Geeta Nijhawan,<br>Ashish Grover, Richa Adlakha                          | 202011037563 | An Apparatus for Identification and Classification of a Signal in Over the Air OTA System and Method Thereof |
| Poonam Tanwar  | 202031036679 | A Novel Hybrid Renewable Power Platform to Harvests Wind, Solar and Water Current Power from Running Chanel  |
| Rosy Madaan  | 202011019359 | Electronic Vehicle Identification System   |
| Swati Watts  | 202011015852 | Automatic Sanitized the Elevator Key Inside Outside Surface and Air  |
| Rosy Madaan, Surbhi Bhatia,<br>Rashima Mahajan,  | 326252-001   | Goggle With Speed Indication   |
| Rashima Mahajan  | 202241012972 | Employing of SoC Tracker for Rescuing and Supervising a Child in Case of Emergencies                         |
| Rashima Mahajan  | 202241021789 | Trail Boost Performance Evaluation by Integration of IoT with Blockchain                                     |
| Dhruv Rohatgi, Simran Choudhary,<br>Siddharth Srivastava, Palak Gupta,<br>Suresh Kumar | 201911053353 | Smart Bed for Pressure Ulcer Therapy   |
| Prateek, Sorabh, Shailesh  | 201911023212 | Filter Cum Stirrer Mechanism for Stir Casting of Composite   |
| Gurpreet Singh Matharou, Ritesh<br>Kumar Nagar   | 201911023214 | External Handbrake with Mechanical Park Assist   |
| Rosy Madaan  | 201941044768 | The Remote Health Monitoring System with Wireless Sensors and IoT Through Multivariate Medical Data          |
| Dhruv Rohatgi, Aayushi Aggarwal,<br>Siddharth Srivastava, Palak Gupta                  | 201911040293 | Automated IoT Based Rapid Medicine Delivery System   |
| Shaveta Bhatia   | 201911033647 | Handheld Self Examine Brest Cancer   |
| Y.K Awasthi  | 201911031519 | Compact Planar Super Wideband Equal Power Divider / Combiner for Rf & Microwave Applications                 |
| Y.K Awasthi  | 201911031072 | Microwave Sensing Device for Dielectric Characterization of Materials  |
| Prachie Sharma, B.S Gill,  | 201811049916 | A Method and Device to Augment Agricultural Produce Using Reflected Solar Energy                             |
| Amrinder Kaur  | 202211003534 | IoT Based Speaker Reorganization System  |

|   |               |  |
|---|---------------|--|
| Ashish Grover, Richa Adlakha, Sunita Joshi, Neerja Negi | 202211008059  | Intelligent Electricity Utilization Management System  |
| Lakhvinder Kaur   | 202241001899  | A novel method IoT based saline bottle for health care system  |
| Lakhvinder Kaur   | 202211051812  | Green Nanotechnology -An Advancement in Phyto formulation research   |
| Nidhi Tandon  | 202241028618  | Mediating Effect of Consumer Awareness and Perceived value of Consumers in between factors of Green Marketing Mix and Buying Behavior of Consumers using Structural Equation Modelling Algorithm |
| Nikita Tomar  | 202211011369A | A Novel Model 'Employees wellness for Employees turn over & Business turn over.'   |
| Nikita Tomar  | 2021/10022    | A method for implementation of donation-based crowd funding to support right to education  |
| Sunita Joshi, Neerja Negi                               | 202211002430  | Machine Learning Analytics for specialized stock Trading   |
| Usha Batra  | 202022101682  | Sustainable Water Filtration System  |
| Usha Batra  | 202022101022  | An intelligent agricultural system for advanced agriculture  |
| Richa Vijay Yadav, Aastha Budhiraja, Priyanka Sharma    | 202211058875  | Behavioral detection of suspicious Host activities in an Enterprise using Deep learning  |
| Richa Vijay Yadav                                       | 202241019567  | Machine Learning Based Irrigation System Through Implementation the Plant Leaves Images to Enhance Agriculture Production  |
| Parul Gandhi  | 2021104037    | Intelligent Digital System Based on Machine Learning To Continuously Monitoring Driver Health Conditions   |
| Neha Gupta, Rashmi Agrawal                              | 202111039537  | Smart Safety Bracelet  |
| Parul Gandhi  | 202111059116  | System And Method for Monitoring Water Quality of BIOFLOC Fish Culture   |
| Sabiha Imran  | 201911023213  | Isolation and Characterization of Broad Spectrum Bacteriocin Isolated from Bacteria Habituating Polluted Water   |
| Deepti Dabbas Hazarika                                  | 2021105493    | An Innovative Method for Increasing Value of Environment Friendly Products   |
| Sarika Chaudhary  | 202111048985  | Smart Monitor: Health Monitoring system using deep learning  |
| Anjali Singh  | 202241000074  | An Algorithm Based on Deep Learning for the Detection of COVID-19 Infections   |
| Y K Awasthi, Gaurav Saxena, Priyanka Jain               | 202111011544  | A Device for Electromagnetic Absorption and Navigation   |

## CHAPTER-8

### STUDENTS ACHIEVEMENTS AND ACTIVITIES

#### 8.1 Examination Results

The University has adopted semester-based study programmes and a credit system of evaluation for examination of all courses. The Programme wise result of final semester held in May 2022 is tabulated below:

| Program Name                                      | Number of students appeared in the final year examination | Number of students passed in the final year examination |
|---|---|---|
| B. Tech-Aeronautical Engineering                  | 20  | 19  |
| B. Tech-Automobile Engineering                    | 15  | 15  |
| B. Tech-Biotechnology                             | 24  | 23  |
| B. Tech-Civil Engineering                         | 17  | 17  |
| B. Tech-Computer Science and Engineering          | 208   | 203   |
| B. Tech-Electronics and Communication Engineering | 23  | 23  |
| B. Tech-Electrical and Electronics Engineering    | 15  | 15  |
| B. Tech-Mechanical Engineering                    | 41  | 40  |
| B.Sc.-Data Science                                | 4   | 3   |
| B.Sc.- (Hons.) Geology                            | 1   | 1   |
| M.Sc.-Applied Geology                             | 1   | 1   |
| M.Tech-Biotechnology                              | 3   | 3   |
| M.Tech-Civil Engineering                          | 11  | 10  |
| M.Tech-Automation and Robotics                    | 5   | 5   |
| M.Sc.-Biotechnology                               | 12  | 12  |
| M.Tech- Computer Engineering and Networking       | 2   | 2   |
| M.Tech- Mechanical Engineering                    | 2   | 2   |
| Bachelor of Architecture (B.Arch.)                | 11  | 11  |

|   |    |    |
|---|----|----|
| B.Sc.-Interior Design   | 23 | 19 |
| M.Sc. - Interior Design   | 7  | 7  |
| Bachelor of Visual Arts   | 3  | 3  |
| Bachelor of Physiotherapy   | 72 | 72 |
| B.Sc.-Nutrition and Dietetics   | 55 | 50 |
| M.Sc.-Nutrition and Dietetics   | 43 | 37 |
| Master of Physiotherapy   | 35 | 35 |
| Bachelor of Computer Applications                                       | 69 | 55 |
| Master of Computer Applications   | 55 | 54 |
| B.Sc.-Information Technology  | 9  | 8  |
| Bachelor of Business Administration-<br>General                         | 93 | 73 |
| Bachelor of Business Administration-<br>Banking and Financial Markets   | 32 | 28 |
| Bachelor of Business Administration<br>(Global) -International Business | 12 | 12 |
| B.Com (Hons)  | 90 | 74 |
| M.Com   | 7  | 5  |
| B.A.-Journalism and Mass Communication                                  | 58 | 43 |
| B.A. (Hons)-English   | 46 | 43 |
| M.A.-Journalism and Mass Communication                                  | 6  | 4  |
| M.A.-English  | 11 | 9  |
| Master of Business Administration                                       | 63 | 59 |
| B.Sc.-Hospitality and Hotel Administration                              | 33 | 28 |
| B.A.-Liberal Arts   | 8  | 5  |
| B.A (Hons).-Applied Psychology  | 48 | 46 |
| M.A.-Applied Psychology   | 8  | 8  |
| B.A. (Hons)-Economics   | 22 | 22 |
| M.A.-Economics  | 5  | 5  |

## 8.2 Placements

Corporate Resource Centre at University engages with corporate, enables the students to fulfill their dreams of getting a job offer through campus placements. The centre offers excellent infrastructure support at every stage of the placement processes, down from arranging pre-placement talks, written tests, group discussion, interviews etc. CRC manages ongoing relationships with leading corporate to provide guidance on latest trends, and employment and training opportunities by initiating Industrial visits, Industrial training & corporate Lectures etc.

It engages with the industry and constantly strives for expanding the industry-academia Interface. The team plays an important role in shaping the careers of the students, down from their induction and orientation to the campus for initiating summer internships, mid-term projects, etc. and guiding them till their final placements and even after that.

In addition, team keeps abreast with the needs of the job market during its interaction with the industries and provides valuable input to the teaching faculty regarding the market relevant skills so as to equip our students with market ready skills to make them more employable.

In an effort to streamline the placement process, an 'Online Registration Portal' for campus placement is used. All the Final year students who are interested in placement have to register on the portal. It helps in identifying the eligible students for a particular campus drive based on the criteria provided by the recruiting company.

Some of the eminent recruiters include TCS, Accenture, IBM, HCL Technologies, Coforge, Infogain, ADP India, Dunzo, Fidelity International Sonalika International Tractor, TATA Technologies, Honda Motorcycle, Yamaha Motor Solutions, British Telecom, KPMG, Indigo, Avizva, Nokia, Nagarro Software and the likes.

**Details of Department wise Placements for the Academic Year 2021-22 are tabulated below:**

### 1. Department of Management Studies:

| S.NO | COMPANY NAME                          | FMS | Campus Type |
|------|---------------------------------------|-----|-------------|
| 1    | Aarohan Healthcare                    | 3   | Virtual     |
| 2    | ACC Limited                           | 1   | Virtual     |
| 3    | Accenture                             | 2   | Virtual     |
| 4    | A-Cube Business Solutions Pvt Ltd     | 1   | Self Placed |
| 5    | ADP India Pvt. Ltd.                   | 10  | In Campus   |
| 6    | AirBlack                              | 1   | Virtual     |
| 7    | AK BANSAL & Co.                       | 1   | Self Placed |
| 8    | Alea International Consulting Pvt Ltd | 1   | Self Placed |
| 9    | ATS Infrastructure Ltd                | 1   | Virtual     |
| 10   | Bharti AXA                            | 1   | Self Placed |

|    |   |    |             |
|----|---|----|-------------|
| 11 | Codegenie Technology LLP                | 1  | Self Placed |
| 12 | Data Trained Education pvt. Ltd.        | 1  | Self Placed |
| 13 | Devdeep Industries                      | 1  | Self Placed |
| 14 | Edelweiss Wealth Management             | 3  | Virtual     |
| 15 | Eedumentor educational services pvt ltd | 1  | Self Placed |
| 16 | ESAF Small Finance Bank                 | 2  | Virtual     |
| 17 | Height Promotion                        | 2  | Self Placed |
| 18 | Hike Education                          | 1  | Virtual     |
| 19 | ID Tech Solutions Pvt. Ltd.             | 1  | Self Placed |
| 20 | India Mart                              | 1  | Self Placed |
| 21 | IndiGo                                  | 3  | off Campus  |
| 22 | Ingenious Life sciences Pvt. Ltd        | 1  | Self Placed |
| 23 | Intellipaat                             | 1  | Virtual     |
| 24 | IoTFY                                   | 1  | Self Placed |
| 25 | ITC Limited                             | 1  | Virtual     |
| 26 | KEI Industries Limited                  | 1  | Off Campus  |
| 27 | KPMG                                    | 1  | Self Placed |
| 28 | Madhyam                                 | 1  | Self Placed |
| 29 | MotilalOswal Financial Services Ltd.    | 1  | Self Placed |
| 30 | NTT Data Services                       | 5  | Virtual     |
| 31 | OneBanc Technologies                    | 1  | Self Placed |
| 32 | R.K. Associates                         | 1  | Off Campus  |
| 33 | Sarvodaya Hospital                      | 2  | Virtual     |
| 34 | SAVINO DELL BENE FREIGHT FORWARDERS     | 1  | Self Placed |
| 35 | Spicejet Ltd                            | 1  | Self Placed |
| 36 | Square Yards                            | 1  | Self Placed |
| 37 | SRVA Education                          | 4  | Virtual     |
| 38 | System Electrical Construction Company  | 1  | Self Placed |
| 39 | TATA 1mg                                | 1  | Self Placed |
| 40 | Tech Mahindra                           | 1  | Self Placed |
| 41 | Teleperformance                         | 1  | Self Placed |
| 42 | Webghat                                 | 1  | Self Placed |
| 43 | XL India Business Services              | 1  | Self Placed |
| 44 | Higher Studies                          | 3  |             |
| 45 | Entrepreneurship                        | 5  |             |
|    | Total                                   | 77 |             |

**2. Faculty of Allied Health Sciences:**

| S.NO | COMPANY NAME  | FMS | Campus Type |
|------|---|-----|-------------|
| 1    | AAFT E Learn Pvt. Ltd.                                | 1   | Self Placed |
| 2    | Abhinav Futuristics Private Limited                   | 1   | Self Placed |
| 3    | Activhealth (Advanced Physiotherapy & Rehabilitation) | 1   | Self Placed |
| 4    | AmeriHealth Homecare                                  | 1   | Self Placed |
| 5    | Axia Health Assist Private Limited                    | 1   | Self Placed |
| 6    | CB Physiotherapy Clinic                               | 1   | Self Placed |
| 7    | Doctors For You                                       | 1   | Self Placed |
| 8    | <b>Dr. Shikha's Nutrihealth</b>                       | 2   | Off Campus  |
| 9    | ESIC Medical College and Hospital                     | 1   | Self Placed |
| 10   | Healthians  | 18  | Virtual     |
| 11   | HealthifyMe   | 1   | Self Placed |
| 12   | Hindustan wellness                                    | 1   | Self Placed |
| 13   | IBS Hospital  | 2   | Self Placed |
| 14   | Indraprastha Apollo Hospital                          | 3   | Self Placed |
| 15   | Innodata  | 4   | Virtual     |
| 16   | Kaushik Physio Clinic                                 | 2   | Self Placed |
| 17   | Max Healthcare  | 2   | Self Placed |
| 18   | Medanta Hospital                                      | 1   | Self Placed |
| 19   | MS Physiotherapy Clinic                               | 1   | Self Placed |
| 20   | OPTUM   | 10  | Self Placed |
| 21   | Physio Active Clinic                                  | 1   | Self Placed |
| 22   | PhysWorld   | 1   | Self Placed |
| 23   | Proactive Child Development Center                    | 1   | Self Placed |
| 24   | Qi Spine  | 3   | Virtual     |
| 25   | QRG Hospital  | 1   | Self Placed |
| 26   | SANSKRITI UNIVERSITY                                  | 1   | Self Placed |
| 27   | Sarvodaya Hospital                                    | 2   | Virtual     |
| 28   | SSB Heart And Multispecialty Hospital                 | 1   | Self Placed |
| 29   | Tata Steel Limited                                    | 2   | Self Placed |
| 30   | The Physio Expert                                     | 1   | Self Placed |
| 31   | Vestige   | 1   | Self Placed |
| 32   | VIBES HEALTHCARE                                      | 1   | Self Placed |
| 33   | Higher Studies  | 38  |             |
| 34   | Entrepreneurship                                      | 5   |             |
|      | Total   | 114 |             |

### 3. Faculty of Computer Applications

| S.NO | COMPANY NAME                                  | FCA | Campus Type |
|------|---|-----|-------------|
| 1    | Accenture                                     | 2   | Virtual     |
| 2    | Airtel  | 1   | Self Placed |
| 3    | AIS Business Solutions Pvt Ltd                | 1   | Self Placed |
| 4    | Annalect India Pvt Ltd                        | 1   | Self Placed |
| 5    | Bhasin Estate & Construction                  | 1   | Self Placed |
| 6    | Bug Hunters                                   | 2   | off Campus  |
| 7    | Build with Innovation Pvt Ltd                 | 1   | Self Placed |
| 8    | Byju's  | 1   | Virtual     |
| 9    | Capgemini                                     | 2   | Virtual     |
| 10   | Cavisson India                                | 1   | Virtual     |
| 11   | Collabera Digital                             | 1   | Self Placed |
| 12   | concentrix                                    | 1   | Self Placed |
| 13   | Contec Global India Pvt Ltd                   | 1   | In Campus   |
| 14   | Credo India Softech Private Limited           | 1   | Self Placed |
| 15   | Deloitte                                      | 2   | Virtual     |
| 16   | Digital Horizons Technology                   | 1   | Self Placed |
| 17   | EPIDIASCOPE EQUIPMENT PVT LTD                 | 1   | Self Placed |
| 18   | ESGAUGE                                       | 1   | Self Placed |
| 19   | Fleek IT Solutions                            | 1   | Self Placed |
| 20   | Genpact                                       | 2   | Virtual     |
| 21   | Globus 8                                      | 4   | Self Placed |
| 22   | HCL Technologies                              | 1   | Self Placed |
| 23   | Hike Education                                | 3   | Virtual     |
| 24   | Hitachi Vantara                               | 1   | Virtual     |
| 25   | IBM India                                     | 2   | Virtual     |
| 26   | iEnergizer IT Services Pvt. Limited           | 1   | Self Placed |
| 27   | Infogain                                      | 1   | Virtual     |
| 28   | Integreon Managed Solutions (India) Pvt. Ltd. | 1   | Self Placed |
| 29   | Intellipaat                                   | 2   | Virtual     |
| 30   | Intrics Solutions Private Limited             | 1   | Self Placed |
| 31   | Jaro Group                                    | 4   | Virtual     |
| 32   | Kesavi Web Solutions                          | 1   | Self Placed |
| 33   | M/S Sadana Brothers                           | 1   | Self Placed |
| 34   | Manipal Business Solutions                    | 3   | Virtual     |
| 35   | Milestone                                     | 1   | Self Placed |
| 36   | MRIIRS  | 3   | Self Placed |
| 37   | Nagarro Software                              | 3   | Virtual     |
| 38   | Newgen Software                               | 2   | Virtual     |
| 39   | Next Gen                                      | 1   | Self Placed |
| 40   | NoPaperForms Solutions Pvt. Ltd.              | 1   | Self Placed |

|    |  |     |             |
|----|--|-----|-------------|
| 41 | Orahi (Phonon Solutions Private Limited) | 1   | Self Placed |
| 42 | SDAD Technology                          | 1   | Self Placed |
| 43 | Talent East Staffing Services Pvt. Ltd.  | 1   | Self Placed |
| 44 | TCS                                      | 3   | Virtual     |
| 45 | Tech X Consulting Solutions Pvt Ltd      | 1   | Self Placed |
| 46 | TechAhead Software                       | 2   | Virtual     |
| 47 | Unthinkable Solutions                    | 1   | Virtual     |
| 48 | VK Expo FAB                              | 1   | Self Placed |
| 49 | Wipro Ltd                                | 1   | Virtual     |
| 50 | WorldRef Technologies Pvt. Ltd.          | 1   | Self Placed |
| 51 | Higher Studies                           | 21  |             |
| 52 | Entrepreneurship                         | 6   |             |
|    | Total                                    | 102 |             |

#### 4. Faculty of Engineering and Technology

| S.NO | COMPANY NAME                               | FET | Campus Type |
|------|--|-----|-------------|
| 1    | Accenture                                  | 23  | Virtual     |
| 2    | ACPL SYSTEMS (P) LTD.                      | 1   | Self Placed |
| 3    | Action Construction Equipment Ltd.         | 1   | off Campus  |
| 4    | ADP India Pvt. Ltd.                        | 6   | In Campus   |
| 5    | AIIMS                                      | 1   | Self Placed |
| 6    | All E Technologies                         | 1   | Virtual     |
| 7    | Aon  | 9   | Virtual     |
| 8    | Appinventiv Technology Pvt. Ltd            | 4   | Virtual     |
| 9    | Arrivae                                    | 1   | self Placed |
| 10   | Artech Infosystems Pvt. Ltd.               | 1   | Virtual     |
| 11   | ATS Infrastructure Ltd                     | 3   | Virtual     |
| 12   | Auquall BPO Services Pvt Ltd               | 1   | Self Placed |
| 13   | Auquall Inventive Services                 | 1   | Self Placed |
| 14   | Austere Systems Pvt Ltd                    | 1   | Self Placed |
| 15   | Aviotron Aerospace                         | 2   | Virtual     |
| 16   | AVIZVA Solutions Private Limited           | 2   | Virtual     |
| 17   | Axiom IO IT Services Pvt Ltd               | 1   | Self Placed |
| 18   | BAeHAL Software Ltd.                       | 1   | Self Placed |
| 19   | Balaji Associates                          | 1   | Self Placed |
| 20   | BD Infradevelopers LLP                     | 1   | Self Placed |
| 21   | Big Oh Notation Pvt Ltd                    | 1   | Virtual     |
| 22   | Birdeye Software India Private Limited     | 1   | Self Placed |
| 23   | Bosch Global Software Technologies Pvt Ltd | 1   | Self Placed |
| 24   | Bristlecone                                | 1   | Virtual     |
| 25   | Byju's                                     | 5   | Virtual     |

|    |  |    |             |
|----|--|----|-------------|
| 26 | Capgemini                                  | 38 | Virtual     |
| 27 | Cavisson India                             | 1  | Virtual     |
| 28 | Cheil India                                | 1  | Virtual     |
| 29 | CIEL HR Services Pvt Ltd.                  | 1  | Self Placed |
| 30 | Codec Networks                             | 1  | Self Placed |
| 31 | Coforge                                    | 22 | Virtual     |
| 32 | Contata Solutions Pvt Ltd                  | 4  | Virtual     |
| 33 | Contec Global India Pvt Ltd                | 3  | In Campus   |
| 34 | COSMOS Services Pvt Ltd                    | 1  | Self Placed |
| 35 | CPM India Sales & Marketing Pvt. Ltd       | 1  | Self Placed |
| 36 | Credit Suisse Services                     | 1  | Self Placed |
| 37 | Crowe Horwath IT Services LLP              | 1  | Virtual     |
| 38 | Cybercube Services Pvt Ltd                 | 1  | Self Placed |
| 39 | Data Resolve Technologies Pvt Ltd          | 1  | Virtual     |
| 40 | DharakshaEcosolutions                      | 1  | Self Placed |
| 41 | Dineshchandra R Agrawal InfraconPvt Ltd    | 1  | Self Placed |
| 42 | DUNZO                                      | 5  | Virtual     |
| 43 | e-Ashwa Industries Pvt. ltd                | 10 | In Campus   |
| 44 | Ecologics India Pvt Ltd                    | 1  | Self Placed |
| 45 | EX Squared Solutions India Pvt Ltd         | 1  | Virtual     |
| 46 | Exint Solutions Pvt. Ltd.                  | 1  | Self Placed |
| 47 | ExpertLancing Research Services            | 4  | Virtual     |
| 48 | Fidelity International                     | 4  | Virtual     |
| 49 | Frick India                                | 3  | off Campus  |
| 50 | Genpact                                    | 5  | Virtual     |
| 51 | Girnar Insurance Broker Pvt Ltd            | 1  | Self Placed |
| 52 | Greenfuel Energy Solutions Pvt Ltd         | 1  | off Campus  |
| 53 | GS Modern School                           | 1  | Self Placed |
| 54 | HCL Technologies                           | 1  | Self Placed |
| 55 | Hero MotoCorp Ltd.                         | 1  | Self Placed |
| 56 | Hexaware Technologies                      | 1  | Virtual     |
| 57 | Hitachi Vantara                            | 2  | Virtual     |
| 58 | HiyaMee Private Limited                    | 1  | Self Placed |
| 59 | Honda Motorcycle & Scooter India Pvt. Ltd. | 2  | Virtual     |
| 60 | IBM India                                  | 9  | Virtual     |
| 61 | IDS Infotech                               | 1  | Virtual     |
| 62 | IndArka Energy                             | 1  | Self Placed |
| 63 | India Mart                                 | 1  | Self Placed |
| 64 | IndiGo                                     | 1  | off Campus  |
| 65 | Infogain                                   | 11 | Virtual     |
| 66 | Infosys                                    | 1  | Virtual     |
| 67 | Intas Pharmaceuticals Ltd                  | 1  | Self Placed |
| 68 | Intellect Partners                         | 2  | Virtual     |
| 69 | Intellipaat                                | 2  | Virtual     |
| 70 | Interra Systems                            | 1  | Virtual     |
| 71 | IntraEdge Technologies Pvt.Ltd.            | 1  | Self Placed |

|     |  |    |             |
|-----|--|----|-------------|
| 72  | Jaro Group                                 | 2  | Virtual     |
| 73  | JBM  | 4  | Self Placed |
| 74  | JTEKT India Ltd                            | 2  | In Campus   |
| 75  | Kazam EV Tech Pvt. Ltd                     | 1  | Self Placed |
| 76  | Kedman                                     | 1  | Self Placed |
| 77  | KISEKI                                     | 3  | In Campus   |
| 78  | KPMG                                       | 1  | Self Placed |
| 79  | L&T Construction                           | 1  | Self Placed |
| 80  | L&T Technology Services Limited (LTTS)     | 4  | Virtual     |
| 81  | LaunchtraxPvt Ltd                          | 2  | Self Placed |
| 82  | Legato Health Technologies                 | 2  | Virtual     |
| 83  | Loom Solar                                 | 1  | Self Placed |
| 84  | Manipal Business Solutions                 | 1  | Virtual     |
| 85  | MasterAir                                  | 1  | Self Placed |
| 86  | Merkur Gaming India Pvt ltd                | 1  | Self Placed |
| 87  | Mitsubishi Electric India Pvt. Ltd.        | 1  | Self Placed |
| 88  | Nagarro Software                           | 11 | Virtual     |
| 89  | Namo e-Waste Management Ltd.               | 5  | In Campus   |
| 90  | Navrik Software Solutions                  | 1  | Self Placed |
| 91  | Newgen Software                            | 5  | Virtual     |
| 92  | Niveshan Technologies India Pvt Ltd        | 1  | Self Placed |
| 93  | Nokia                                      | 8  | Virtual     |
| 94  | NTT Data Services                          | 4  | Virtual     |
| 95  | OnActuate Software Consulting (I) Pvt. Ltd | 1  | Self Placed |
| 96  | Pee Bee Agency                             | 1  | Self Placed |
| 97  | Penguin Technology                         | 1  | Self Placed |
| 98  | PIT Solutions Pvt. Ltd.                    | 1  | Self Placed |
| 99  | PlanetSpark                                | 6  | Virtual     |
| 100 | Poly Medicare Ltd                          | 2  | Virtual     |
| 101 | Power Consultants                          | 1  | Self Placed |
| 102 | Powerskill Engineering Solutions Pvt Ltd   | 1  | Self Placed |
| 103 | Pranav Vikas India Pvt Ltd                 | 2  | Virtual     |
| 104 | Premas Biotech Pvt. Ltd                    | 2  | Virtual     |
| 105 | Pyroguard Engineers                        | 2  | off Campus  |
| 106 | RDC Concrete (India) Pvt. Ltd.             | 1  | In Campus   |
| 107 | Regalo Kitchens Pvt Ltd.                   | 2  | Virtual     |
| 108 | Remunance Services Pvt. Ltd                | 1  | Self Placed |
| 109 | Round World Immigration Pvt. Ltd.          | 1  | Self Placed |
| 110 | Sagacious IP                               | 4  | Virtual     |
| 111 | Samsung R&D                                | 1  | Virtual     |
| 112 | SeekAxis Technologies Pvt. Ltd.            | 1  | Self Placed |
| 113 | Servetel Communication                     | 1  | Virtual     |
| 114 | Shahi Exports Pvt. Ltd                     | 1  | Virtual     |
| 115 | Shop My Ev India Pvt Ltd                   | 2  | Self Placed |
| 116 | Sify Digital Services Limited              | 1  | Self Placed |
| 117 | SISL Infotech Pvt. Ltd                     | 1  | Self Placed |

|     |   |     |             |
|-----|---|-----|-------------|
| 118 | Sonamandhirapvt.ltd                               | 1   | Self Placed |
| 119 | Sonalika International Tractors                   | 2   | In Campus   |
| 120 | St. Xavier's Community College                    | 1   | Self Placed |
| 121 | Stan Professionals pvt ltd                        | 1   | Self Placed |
| 122 | Star Health and Allied Insurance Company Limited  | 1   | Self Placed |
| 123 | STARTEK (Aegis Customer Support Services Pvt ltd) | 1   | Self Placed |
| 124 | TATA Technologies                                 | 6   | Virtual     |
| 125 | TCS   | 31  | Virtual     |
| 126 | TeamLease Services Limited                        | 1   | Self Placed |
| 127 | TechChefz   | 7   | Virtual     |
| 128 | Techjockey  | 1   | off Campus  |
| 129 | Technology Products                               | 1   | Self Placed |
| 130 | Teleperformance                                   | 1   | Self Placed |
| 131 | ThinkSys  | 1   | Self Placed |
| 132 | Titan Biotech Ltd.                                | 1   | Virtual     |
| 133 | To The New  | 6   | Virtual     |
| 134 | Toluna India Private Limited                      | 1   | Virtual     |
| 135 | Tourlandish Online Ventures pvt ltd               | 1   | Self Placed |
| 136 | TRB Technologies                                  | 1   | Self Placed |
| 137 | TSPI Infotech India Pvt. Ltd.                     | 1   | Self Placed |
| 138 | TVS Supply Chain Solutions                        | 1   | Self Placed |
| 139 | Ubiquiti Inc                                      | 1   | Virtual     |
| 140 | Ultimate Kronos Group                             | 2   | Virtual     |
| 141 | Unecops Technologies Ltd                          | 1   | Self Placed |
| 142 | Uno Minda Group                                   | 1   | Virtual     |
| 143 | Unthinkable Solutions                             | 1   | Virtual     |
| 144 | VaaaN Infra                                       | 1   | Virtual     |
| 145 | Veethree Indication Instruments Ltd               | 1   | Self Placed |
| 146 | Visionary Architects                              | 1   | Self Placed |
| 147 | VVDN Technologies                                 | 4   | Virtual     |
| 148 | Web Falcons Technologies                          | 1   | Self Placed |
| 149 | Wiley Mthree                                      | 1   | Virtual     |
| 150 | Wipro Ltd   | 50  | Virtual     |
| 151 | WNS Global Services                               | 2   | Virtual     |
| 152 | Xceedance   | 1   | Virtual     |
| 153 | Xebia   | 9   | Virtual     |
| 154 | Yuvaksh Events Pvt. Ltd                           | 1   | Self Placed |
| 155 | Higher Studies                                    | 24  |             |
| 156 | Entrepreneurship                                  | 21  |             |
|     | Total   | 518 |             |

### 5. Faculty of Media and Humanities:

| S.NO | COMPANY NAME                           | FMeH | Campus Type |
|------|--|------|-------------|
| 1    | Abacus Desk                            | 1    | Virtual     |
| 2    | AccioJob                               | 1    | Self Placed |
| 3    | Athena Venures                         | 1    | Self Placed |
| 4    | Avian-WE Media                         | 3    | Self Placed |
| 5    | Azent Overseas Education Ltd           | 1    | Self Placed |
| 6    | Bennett, Coleman & Co Ltd              | 1    | Virtual     |
| 7    | Blot Canvas                            | 2    | Self Placed |
| 8    | Cogent E-Services                      | 2    | Self Placed |
| 9    | Creative INC                           | 1    | Virtual     |
| 10   | Etraveli India Pvt. Ltd.               | 1    | Self Placed |
| 11   | Freeskout Lash Technologies Pvt Ltd    | 1    | Self Placed |
| 12   | Hashtag Orange Advertising Pvt. Ltd.   | 1    | Self Placed |
| 13   | Hobit Technologies Pvt. Ltd            | 1    | Self Placed |
| 14   | iEnergizer IT Services Pvt. Limited    | 1    | Self Placed |
| 15   | IGT Solutions Private Limited.         | 2    | Self Placed |
| 16   | L&T Technology Services Limited (LTTS) | 1    | Virtual     |
| 17   | League11.in                            | 1    | Self Placed |
| 18   | McCann Erickson India Pvt Ltd.         | 1    | Self Placed |
| 19   | Red Hot Media House                    | 1    | Self Placed |
| 20   | The Yellow Coin Communication Pvt. Ltd | 1    | Self Placed |
| 21   | V5 Global Services Pvt. Ltd            | 1    | Self Placed |
| 22   | VTC Projects (P) Ltd                   | 1    | Self Placed |
| 23   | Higher Studies                         | 29   |             |
| 24   | Entrepreneurship                       | 2    |             |
|      | Total                                  | 58   |             |

### 6. Faculty of Commerce and Business Studies

| S.NO | COMPANY NAME               | FCBS | Campus Type |
|------|----------------------------|------|-------------|
| 1    | AJNI Consulting Pvt Ltd    | 1    | Self Placed |
| 2    | Ascent Infra Pvt Ltd       | 2    | Self Placed |
| 3    | Athenian Tech Pvt Ltd      | 1    | Self Placed |
| 4    | Aviotron Aerospace         | 1    | Virtual     |
| 5    | Career Launcher            | 1    | Virtual     |
| 6    | CK Birla Hospital          | 1    | In Campus   |
| 7    | Coforge                    | 3    | Virtual     |
| 8    | Concentrix                 | 1    | Self Placed |
| 9    | Conduent (Erstwhile Xerox) | 1    | Virtual     |
| 10   | Expert Staffing            | 1    | Self Placed |

|    |   |    |             |
|----|---|----|-------------|
| 11 | Freeskout Lash Technologies Pvt Ltd               | 1  | Self Placed |
| 12 | Growth from Knowledge                             | 1  | Self Placed |
| 13 | Hike Education                                    | 1  | Virtual     |
| 14 | India Future Foundation                           | 1  | Virtual     |
| 15 | Intellipaath                                      | 3  | Virtual     |
| 16 | KPMG  | 1  | Self Placed |
| 17 | Manappuram Finance Ltd                            | 1  | Self Placed |
| 18 | My Chhota School Pvt Ltd                          | 1  | Self Placed |
| 19 | NKS Autoparts Industries                          | 1  | Self Placed |
| 20 | Nomura Services India Pvt Ltd                     | 1  | Self Placed |
| 21 | Otipy   | 1  | Virtual     |
| 22 | Paramount Health Service & Insurance TPA Pvt. Ltd | 2  | Self Placed |
| 23 | PlanetSpark                                       | 1  | Virtual     |
| 24 | Projexis  | 1  | Self Placed |
| 25 | RBS Services India Private Limited,               | 1  | Self Placed |
| 26 | Resourcing Next                                   | 1  | Self Placed |
| 27 | SOP Edits Overseas Consultants                    | 1  | Self Placed |
| 28 | Testbook Edu Solutions Pvt. Ltd                   | 1  | Self Placed |
| 29 | Xceedance   | 1  | Virtual     |
| 30 | YauntaiInternation Supply Chain Management        | 1  | Self Placed |
| 31 | Higher Studies                                    | 35 |             |
| 32 | Entrepreneurship                                  | 7  |             |
|    | Total   | 78 |             |

## 7. Faculty of Behavioral & Social Science

| S.NO | COMPANY NAME                                    | FBSS | Campus Type |
|------|---|------|-------------|
| 1    | AcadecraftPvt Ltd                               | 2    | Virtual     |
| 2    | AHZ Associates                                  | 1    | Self Placed |
| 3    | concentrix                                      | 2    | Self Placed |
| 4    | Cvent   | 1    | Self Placed |
| 5    | iEnergizer IT Services Pvt. Limited             | 1    | Self Placed |
| 6    | Infollion Research Services Pvt. Ltd.           | 1    | Virtual     |
| 7    | Institute for studies in industrial Development | 1    | Self Placed |
| 8    | Xebia   | 3    | Virtual     |
| 9    | Higher Studies                                  | 22   |             |
|      | Total   | 34   |             |

## 8. Faculty of Architecture and Design

| S.NO | COMPANY NAME                         | FAD | Campus Type |
|------|--------------------------------------|-----|-------------|
| 1    | Amara Interiors Pvt.Ltd              | 1   | Self Placed |
| 2    | Blue Jadeitte Construction Pvt. Ltd. | 1   | Self Placed |
| 3    | Brij India Architects                | 1   | Self Placed |
| 4    | BrookSpace Architectural Services    | 1   | Self Placed |
| 5    | Designwise Associate                 | 1   | Self Placed |
| 6    | KCKV Consultants                     | 1   | Self Placed |
| 7    | Radiant Enterprise Pvt. Ltd          | 1   | Self Placed |
| 8    | SJA Consultants                      | 3   | Self Placed |
| 9    | The Muse Design                      | 1   | Self Placed |
| 10   | Higher Studies                       | 1   |             |
| 11   | Entrepreneurship                     | 5   |             |
|      | Total                                | 17  |             |

## 9. Hotel Management

| S.NO | COMPANY NAME                   | FHM | Campus Type |
|------|--------------------------------|-----|-------------|
| 1    | Burger Club Private limited    | 1   | Self Placed |
| 2    | Crowne Plaza                   | 3   | Self Placed |
| 3    | Fairfield by Marriott, Chennai | 1   | Self Placed |
| 4    | Hyatt Centric Hotel            | 1   | Self Placed |
| 5    | ITC Maurya                     | 1   | Self Placed |
| 6    | Jaypee Group                   | 1   | Self Placed |
| 7    | JP Siddharth                   | 1   | Self Placed |
| 8    | JW Marriott, Aerocity          | 1   | Self Placed |
| 9    | Lenskart                       | 3   | Self Placed |
| 10   | NLB Services                   | 2   | Self Placed |
| 11   | Praxis Services Pvt. Ltd.      | 1   | Self Placed |
| 12   | PVR Cinemas                    | 1   | Virtual     |
| 13   | Radisson Blu                   | 1   | Self Placed |
| 14   | Sarvodaya Hospital             | 1   | Self Placed |
| 15   | Taj Dubai                      | 1   | Self Placed |
| 16   | Taj Palace, New Delhi          | 2   | Self Placed |
| 17   | Teleperformance                | 1   | Self Placed |
| 18   | The Gaur's Sarovar Portico     | 3   | In Campus   |
| 19   | Thomas Cook                    | 1   | Self Placed |
| 20   | Vivanta by Taj                 | 1   | Virtual     |
| 21   | Higher Studies                 | 1   |             |
| 22   | Entrepreneurship               | 1   |             |
|      | Total                          | 30  |             |

### 8.3 Extra / Co - Curricular Activities

Students Welfare, Manav Rachna International Institute of Research and Studies is committed towards the holistic development of the students as it provides the students a platform to explore their hidden talent and hone their skills to become master of their art and it offers a wide range of extra and co-curricular activities to complement the academic curriculum and provide students with a well-rounded education. These activities play a crucial role in the personal and professional development of students, fostering their talents, skills, and interests outside the classroom. The activities encourage students to collaborate with fellow peers and become more aware of their potential.

Students Welfare provides the students opportunity to excel not only in the field of Dance, Music, Fashion, Theatre, Fine Arts, Photography but also ensures they shoulder the social responsibilities.

With the purpose to acknowledge students at a greater level, Students Welfare works closely in relation to various Government initiatives to promote Social Welfare and create a better impact on the society such as: National Service Scheme, Red Cross Society, Unnat Bharat Abhiyaan, Mahatma Gandhi National Council of Rural Education as well as it works closely with various NGOs and Foundations on social issues of paramount importance like Daksh Foundation, Parayavaran Sanrakshan Gathividhi, Cycling Federation of India, FIT India Movement, Isha Foundation, Sarvodaya Hospital and Unacademy and many more.

It instils a sense of responsibility among the students and provides them the opportunity to contribute towards the social causes. Students Welfare provides the opportunity to students by engaging in volunteering activities, internships, collaborations and participation in awareness campaigns and events. These activities help in fostering empathy, social consciousness, and a sense of responsibility among students, preparing them to be socially conscious leaders in their respective fields. Some activities related to social welfare and volunteering included: Observance of SwachtaPakhwada, Cloth Donation Drive- NSS Khidmat, Observance of National Girl Child Day and Sohinchiraiya- A Selfie with Daughter on the occasion of National Girl Child Day, Surya Namaskar Abhiyan under the initiative of 75 Crore Suryanamaskar as a part of AazadikaAmritMahotsav and FIT India Movement in association with National Service Scheme and Red Cross Society, Technovogue'22, National Environment Youth Parliament 2022, Observance of World Red Cross Day and World Thalassemia Day, Pledge Taking Ceremony and Observance of Anti-Terrorism Day, Observance of Anti-Tobacco Day, Celebration of World Environment Day, Observance of World Brain Tumour Day, Observance of Anti-Child Labour Day, Asian Track Cycling Championship- Manav Rachna Knowledge Partner and International Yoga Day.

Students Welfare organises a wide range of Cultural Activities where Students play the most pivotal role in planning, organising and performing in such events. Cultural Events include Festive Celebrations, Cultural Fests, Inter University and Intra University Competitions, Talent Shows, Workshops and Trainings. National and International Days are also celebrated to disseminate information, promote inclusivity and unity among all. The aim behind planning such events is to ensure students reflect the values associated with these days These events include: Observance of Eid Al Adha, Observance of Guru Purnima, AAZADI'75- Cultural Celebration of Independence Day, One Week for Nation, Observance of

Rakshabhandan, Observance of Janmashtami, Observance of Teacher's Day, Alfaaz- Open Mic-Celebrating Hindi Diwas, NAVRANG- A Cultural Celebration to celebrate Navratri and Durga Pooja, Observance of Ram Navami, Celebration of Bathukamma at Manav Rachna Campus, Observance of Diwali 2021, A Journey to Moon- An Evening full of Fun and Cultural Extravaganza, Christmas Celebration and Inter-Departmental Talent Hunt for First-Year Students- "Manav Rachna's Got Talent", University Level Competition under National Environment Youth Parliament'2022 on the occasion of the Birth Anniversary of Swami Vivekananda Ji, Virtual Lohri Celebration, Grand Celebration of Republic Day under AazadiKaAmrit, Observance of National Girl Child Day and Sohnchiraiya- A Selfie with Daughter on the occasion of National Girl Child Day, Celebration of Basant Panchami, Sanggattvam- Celebration of MatribashaDiwas, Celebration of International Women's, Session with UNACADEMY- Let's Crack UPSC Together, Spictography- Spring Photography Contest, Observance of Holi on Social Media Platforms, Observance of Shaheed Diwas, Cultural Performance at Brown Ribbon Art Festival, Technovogue'22, National Environment Youth Parliament 2022, Celebration of International Mother's Day, Pen-It Down- Poem Writing Competition to celebrate Birth Anniversary of Guru Rabindranath Tagore, Observance of Buddha Purnima, Passion Talk 1.0, Celebration of World Environment Day, Celebration of Father's Day, International Yoga Day and World Music Day.

Students Welfare takes up initiatives and campaigns concerning social issues that cater to the Society. It also creates consciously aware students that are sensitive and willing to lead. In the same direction, Students Welfare in collaboration with Clans under the Manav Rachna Life Skills Program Also timely takes up Community Service-related initiatives and Social Outreach programs to enlighten a sense of social responsibility among the students. With the help of these activities, Students are able to address societal issues in a better manner. Outreach program comprises events related to Blood Donation Camp, Sanitation Drives, awareness campaigns and Workshops related to Environmental Conservation, Waste Management, Water Management, Road Safety, Gender Equality, issues concerning society, Ethics, Mental Health, Sustainability and more. Online Workshop on Guidance to Improve Psychosocial Skills during Pandemic by Ministry of Education, Interactive Session on Atma Nirbhar Haryana and Rojgar, Session on Early access to Justice at Pre-Arrest, Arrest & Remand Stage, Observance of National Girl Child Day and Sohnchiraiya- A Selfie with Daughter on the occasion of National Girl Child Day, Green Environment Business and Entrepreneurship Challenge -2022, Pledge Taking Ceremony, Observance of Anti-Terrorism Day Were conducted to make students more conscious regarding the social issues.

### **Various Societies/Groups**

To explore their interests, showcase their talent and engage in different cultural activities, Students Welfare has a variety of Societies. With the help of these societies, students explore their passions, engage in collaborative projects, and connect with like-minded peers.

Societies at Manav Rachna International Institute of Research and Studies:

**Music Society "Surtarang":** The Music Society encourages students interested in music to come together and explore their musical talents. Various musical performances, jam sessions, workshops, and competitions are organised for the society members. The society welcomes students with different musical backgrounds, whether they are vocalists or instrumentalists, and provides a platform for them

to showcase their skills.

**Dance Society "Mridaksh":** The Dance Society is a vibrant community of students passionate about dance. It offers opportunities to learn and perform various dance styles. The society conducts regular dance workshops, choreography sessions, and performances both on and off-campus.

**Dramatics Society "Paigam":** The Dramatics Society provides a platform for students interested in theater and acting. It organizes drama productions, skits, street plays, and theater workshops. Students have the opportunity to explore different aspects of acting, scriptwriting, stage management, and production.

**Literary Society "Nusha":** The Literary Society focuses on nurturing students' literary talents and promoting creative writing and communication skills. It conducts poetry recitation events, storytelling sessions, debates, quizzes, and writing competitions.

**Fine Arts Society "Aarekh":** The Fine Arts Society caters to students passionate about visual arts. It provides a platform to explore various art forms such as painting, sketching, sculpture, and photography. The society organizes art exhibitions, workshops, and competitions to showcase students' artistic abilities.

**Photography Society "Brownie":** The Photography Society is dedicated to students interested in photography and visual storytelling. It conducts photography workshops, photo walks, exhibitions, and contests. The society provides a platform for students to enhance their photography skills, learn new techniques, and showcase their work.

**Fashion Society "Aaira":** The Fashion Society brings together students interested in fashion, styling, and design. It conducts fashion shows, workshops, and styling competitions. The society encourages students to explore the world of fashion, experiment with trends, and showcase their unique sense of style.

**National Service Scheme (NSS):** NSS engages students in social service activities. It fosters a sense of social responsibility and active citizenship among students.

**Spicmacay:** Under the banner of Spicmacay, International Women's Day was organised where Nizami Bandhu delivered a spectacular performance.

### **MANAV RACHNA LIFE SKILL PROGRAMME (MRLSP)**

To initiate and propagate the spirit of camaraderie and to provide a rich nurturing ground for Honoring the Life Skills of students, Manav Rachna has introduced the concept of a close-knit family, that of a CLAN. Striving for achieving the common goal at MRIIRS, students are designated to different Clans, irrespective of their belonging to any department or their infrastructural habitation in the University. There are 4 Clans, each represented by an Environmental element and a Mascot - The Air Falcons, The Water Sharks, The Forest Rhinos and The Wild Cats. There are Five categories of activities to be looked after under every Clan - Sports, Media, Literary, Cultural, ISR - Community Services.

THE ROLE OF THE CLANS- At the core, the role of the clans is to create more fervent connections at Manav Rachna, as well as to:

1. Facilitate an environment for students which promotes academic excellence and improves personal development keeping the fun factor alive.
2. To promote friendship & respect amongst pupils.
3. To empower students and educator groups wherein they can collaborate in aiding the development of real-life skills.
4. To create a sense of responsibility, loyalty and tolerance towards seniors, peers and the parent institution.
5. To be able to harness the talent; the ability to arrive at a consensus of views and the ideas coming from a larger number of students.
6. And finally, to create healthy competition. Manav Rachna has created a strong organizational structure for implementation of Manav Rachna Life Skills Programme (MRLSP) to ensure that this initiative is seriously conceptualized, driven and effectively executed across the university.

#### Details of Events Organised in 2021-2022:

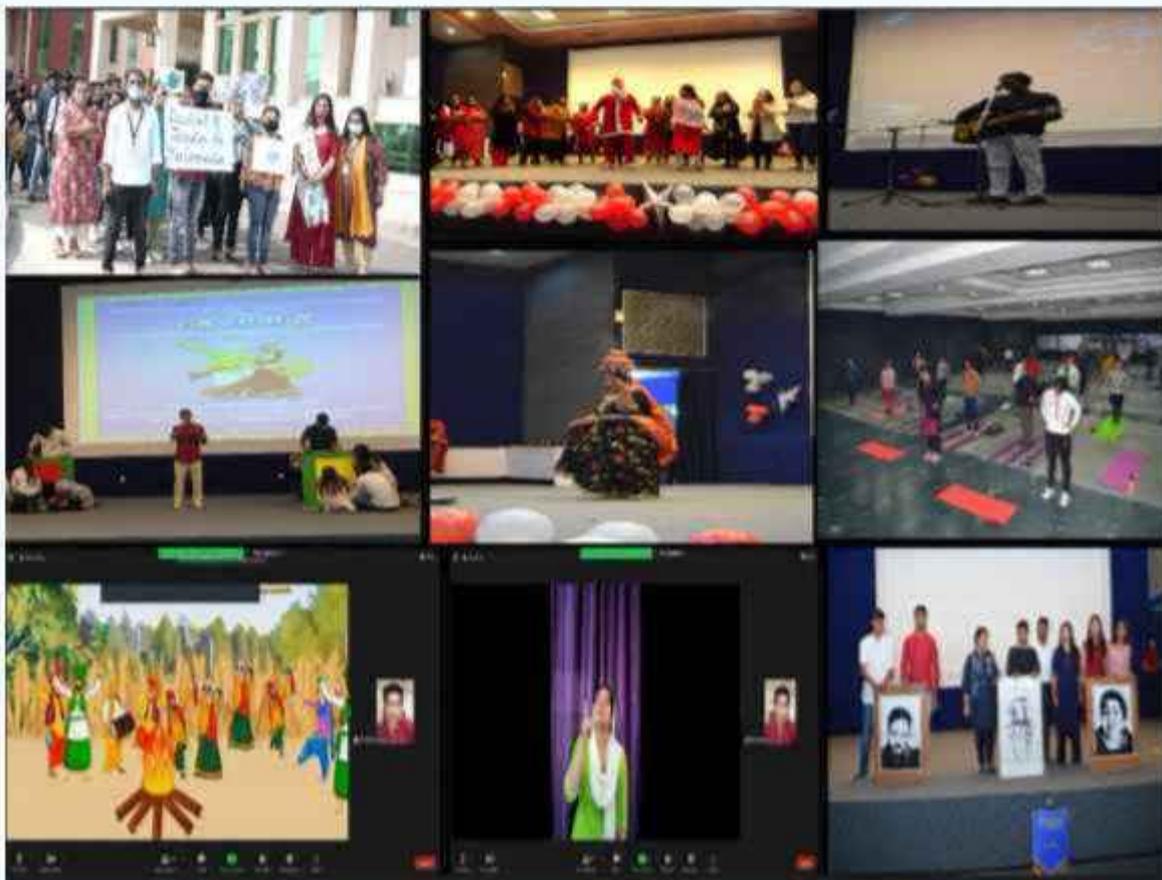
| S.No | Academic Year | Name of Event   | Date of Event         |
|------|---------------|---|-----------------------|
| 1    | 2021-22       | Online Workshop on Guidance to Improve Psychosocial Skills during Pandemic by Ministry of Education | 17.07.2021            |
| 2    | 2021-22       | Observance of Eid Al Adha   | 21.07.2021            |
| 3    | 2021-22       | Observance of Guru Purnima  | 24.07.2021            |
| 4    | 2021-22       | AAZADI'75- Cultural Celebration of Independence Day   | 11.08.2021-15.08.2021 |
| 5    | 2021-22       | One Week For Nation   | 15.08.2021-22.08.2021 |
| 6    | 2021-22       | Observance of Raksha Bandhan  | 22.08.2021            |
| 7    | 2021-22       | Interactive Session on AtmaNirbhar Haryana and Rojgar   | 24.08.2021            |
| 8    | 2021-22       | Observance of Janmashtami   | 26.08.2021            |
| 9    | 2021-22       | Observance of Teacher's Day   | 05.09.2021            |
| 10   | 2021-22       | Alfaaz- Open Mic- Celebrating Hindi Diwas   | 14.09.2021            |
| 11   | 2021-22       | Observance of SwachhtaPakhwada  | 04.10.2021-22.10.2021 |
| 12   | 2021-22       | NAVRANG- A Cultural Celebration to celebrate Navratri and Durga Pooja                               | 12.10.2021            |
| 13   | 2021-22       | Observance of Ram Navami  | 14.10.2021            |
| 14   | 2021-22       | Celebration of Bathukamma at Manav Rachna Campus  | 20.10.2021            |

|    |         |  |                           |
|----|---------|--|---------------------------|
| 15 | 2021-22 | Session on Early access to Justice at Pre-Arrest, Arrest & Remand Stage  | 26.10.2021-<br>11.11.2021 |
| 16 | 2021-22 | Observance of Diwali 2021  | 04.11.2021                |
| 17 | 2021-22 | Celebration of Indian Constitution Day   | 26.11.2021                |
| 18 | 2021-22 | Cloth Donation Drive- NSS Khidmat  | 06.12.2021-<br>27.12.2021 |
| 19 | 2021-22 | A Journey to Moon- An Evening full of Fun and Cultural Extravaganza  | 14.12.2021                |
| 20 | 2021-22 | Christmas Celebration and Inter-Departmental Talent Hunt for First-Year Students- "Manav Rachna's Got Talent"  | 22.12.2021                |
| 21 | 2021-22 | University Level Competition under National Environment Youth Parliament 2022 on the occasion of the Birth Anniversary of Swami Vivekananda Ji   | 12.01.2022                |
| 22 | 2021-22 | Virtual Lohri Celebration  | 13.01.2022                |
| 23 | 2021-22 | Observance of Indian Army day  | 15.01.2022                |
| 24 | 2021-22 | Grand Celebration of Republic Day under Aazadi Ka Amrit Mahotsav 1. Hind-Kala 2. Craft-It Reel-It, 3. Awaaz-E-Hind, 4. Sawaal Hindustan Ka 5. EK SHAAM JAANBAZO KE NAAM                            | 21.01.2022-<br>26.01.2022 |
| 25 | 2021-22 | Observance of National Girl Child Day and Sohnrchiraiya- A Selfie with Daughter on the occasion of National Girl Child Day   | 24.01.2022                |
| 26 | 2021-22 | Surya Namaskar Abhiyan under the initiative of 75 Crore Surya Namaskar as a part of AazadikaAmritMahotsav and FIT India Movement in association with National Service Scheme and Red Cross Society | 03.02.2022                |
| 27 | 2021-22 | Celebration of Basant Panchami   | 05.02.2022                |
| 28 | 2021-22 | Sangattvam- Celebration of MatribashaDiwas   | 22.02.2022                |
| 29 | 2021-22 | Certification Ceremony of Student Council and University and Regional Level Winners of National Environment Youth Parliament   | 22.02.2022                |
| 30 | 2021-22 | Celebration of International Women's Day 1. Panel Discussion-"Breaking the Bias" 2. Sufi Qawwali Concert by Nizami Bandhu in association with SPTCMACAY  | 08.03.2022                |
| 31 | 2021-22 | Session with UNACADEMY- Let's Crack UPSC Together  | 15.03.2022                |
| 32 | 2021-22 | Spictography- Spring Photography Contest   | 16.03.2022                |
| 33 | 2021-22 | Observance of Holi on Social Media Platforms   | 18.03.2022                |

|    |         |  |                           |
|----|---------|--|---------------------------|
| 34 | 2021-22 | Observance of Shaheed Diwas  | 23.03.2022                |
| 35 | 2021-22 | Cultural Performance at Brown Ribbon Art Festival  | 27.03.2022                |
| 36 | 2021-22 | Green Environment Business and Entrepreneurship Challenge -2022                                  | 11.04.2022                |
| 37 | 2021-22 | Technovogue 22   | 11.04.2022                |
| 38 | 2021-22 | National Environment Youth Parliament 2022   | 15.04.2022-<br>16.04.2022 |
| 39 | 2021-22 | Observance of Eid al-Fitr  | 03.05.2022                |
| 40 | 2021-22 | Celebration of International Mother's Day  | 08.05.2022                |
| 41 | 2021-22 | Observance of World Red Cross Day and World Thalassemia Day                                      | 08.05.2022                |
| 42 | 2021-22 | Pen-It Down- Poem Writing Competition to celebrate Birth Anniversary of Guru Rabindranath Tagore | 09.05.2022                |
| 43 | 2021-22 | Observance of Buddha Purnima   | 16.05.2022                |
| 44 | 2021-22 | Pledge Taking Ceremony and Observance of Anti-Terrorism Day                                      | 21.05.2022                |
| 45 | 2021-22 | Observance of Anti-Tobacco Day   | 31.05.2022                |
| 46 | 2021-22 | Passion Talk 1.0.  | 01.06.2022                |
| 47 | 2021-22 | Celebration of World Environment Day   | 03.06.2022-<br>05.06.2022 |
| 48 | 2021-22 | Observance of World Brain Tumor Day  | 08.06.2022                |
| 49 | 2021-22 | Observance of Anti-Child Labour Day  | 12.06.2022                |
| 50 | 2021-22 | Volunteer Participation at Asian Track Cycling Championship- Manav Rachna Knowledge Partner      | 18.06.2022-<br>22.06.2022 |
| 51 | 2021-22 | Celebration of Father's Day  | 19.06.2022                |
| 52 | 2021-22 | International Yoga Day   | 21.06.2022                |
| 53 | 2021-22 | World Music Day  | 21.06.2022                |

**Life skill:**

| <b>Manav Rachna Life Skill Program - Students Welfare</b> |  |                       |
|---|--|-----------------------|
| <b>S.No.</b>  | <b>Title of Event</b>  | <b>Dates</b>          |
| 1   | One Nation OneDrive- Training Programme on "Building Green Campus" | 15.08.2021-22.08.2021 |
| 2   | Training Program OnEnhancing Creative Skills                       | 01.09.2021            |
| 3   | Jalsa -JashanEJal  | 01.10.2021            |
| 4   | Awareness Session on Drug De-Addiction Program                     | 12.01.2022            |
| 5   | Program on Health and Hygiene                                      | 01.02.2022            |
| 6   | April Kool   | 01.04.2022            |
| 7   | Yoga- Adhyaay2.0   | 01.06.2022-15.06.2022 |
| 8   | Awareness program on Environment Protection                        | 01.06.2022-07.06.2022 |
| 9   | Annual Donation Drive-MADHYAM                                      | Annually              |





**Cultural Performances by students of different Societies**



**Online Webinars and Workshops**



**Activities related to Institutional Social Responsibilities**

### 8.4 Sports Activities

Manav Rachna Sports Academy (MRSA) is an unparalleled sports platform, experience which offers sports to each enthusiast who believes in taking his/her sporting spirit to a brand-new level. Whether a newcomer to the world of sports or one who wants to enhance one's sporting skills, Manav Rachna Sports Academy has all options open. With world-class infrastructure, best training teachers and sports clinics organized at a frequent interval by the world acclaimed trainers; this is a one-stop sports media for all sports lovers. MREI initiated MRSA to advance the cause of sports in North India and also throughout India. The players admire participation in specifically designed structures which caters their needs and experience intense practice sessions leading to development of their sporting techniques, courtesy our efficient coaches.



**TEAM SPORTS**

At MRSA, facilities exist in the field of Badminton, Table Tennis, Lawn Tennis, Chess, Carom, Basketball, Volleyball, Shooting, Swimming, Physiotherapy, Squash, Skating and Soccer. Many sports facilities have been designed in consultation with leading brands like YONEX (for Badminton) and STAG (for Table Tennis).

MRSA also includes under its wing the Manav Rachna Cricket Academy (MRCA) which was inaugurated by Cricket Legend Virender Sehwag on July 6, 2012. Besides the Manav Rachna School students, the Academy is open for the natives of Faridabad in the evening. Inspired by MREI's legacy of excellence, MRSA continues to nurture sports talents among students from Nursery onwards and grows from strength to strength.









**Details of major sports events during the Academic Year 2021-22 are tabulated below:**

| <b>Name of the Event/ Competition</b>  | <b>Date of Event/Competition (DD-MM-YYYY)</b> |
|--|---|
| Online interactive session with Sports students  | 9/7/2021                                      |
| Celebrating of 75 years of India independence Azadi ka Amrit Mahotsav resolves @75 FIT India freedom run 2.0   | 8/8/2021                                      |
| T-20 Cricket Between MRIIRS V/S MRU Students   | 17-09-2021                                    |
| T-20 Cricket Between President XI V/S VC XI  | 1/10/2021                                     |
| T-20 Cricket match MBA Senior V/S Junior Students  | 17-10-2021                                    |
| Selection Trials for the Manav Rachna International Institute of Research and Studies for participating in AIIU, North Zone Inter University and Technical Sports Tournament 2021-22   | 20-10-2021                                    |
| Hostel Boys Cricket Match  | 12/11/2021                                    |
| Very Proud Movement to Manav Rachna Sh. Sarkar Talwar, Director Sports, Manav Rachna Educational Institutions has been confirmed upon with the Lifetime Dronacharya award 2021 by honourable President of India Sh. Ram Nath Kovind  | 13-11-2021                                    |
| The proud Movement to Manav Rachna Educational Institutions has been confirmed upon with Rashtriya Khel Protsahan Puruskar 2021 by the Honorable President of India Sh. Ram Nath Kovind on dated 13 <sup>th</sup> November 2021. for Manav Rachna identification and nurturing of budding and young talent. Dr. Prashant Bhalla, President Manav Rachna Educational Institutions (MREI) and Dr. Amit Bhalla, Vice President Received this Award. | 13-11-2021                                    |
| 1st Triangular Cricket Series TCS/Maruti Suzuki and Manav Rachna   | 28-11-2021                                    |
| MRIIRS Volleyball (Men) team Participated in North Zone Inter University Volleyball (Men) Tournament 2021-22 at KUK University   | 12/12/2021                                    |
| MRIIRS Basketball (Men) team Participated in North Zone Inter University Volleyball (Men) Tournament 2021-22 at Jamia Millia Islamia, Delhi  | 15-12-2021                                    |
| MRIIRS Volleyball (Men) team Participated in North Zone Inter University Volleyball (Women) Tournament 2021-22 at KUK University   | 18-12-2021                                    |
| Manav Rachna International Institute of Research & Studies Football (M) team participated in North Zone Inter University Football (M) Championship 2021-22 at Punjabi University Patiala   | 23-12-2021                                    |
| Manav Rachna International Institute of Research & Studies Basketball (W) team participated in North Zone Inter University Basketball (W) Championship 2021-22 at Chitkara University, Rajpura, Punjab   | 30-12-2021                                    |
| Manav Rachna International Institute of Research & Studies Badminton (W) team participated in North Zone Inter University Badminton (W) Championship 2021-22 at Chitkara University, Rajpura, Punjab   | 31-12-2021                                    |

|   |            |
|---|------------|
| 15th Manav Rachna Corporate cricket Challenge 2021  | 12/2/2022  |
| Manav Rachna International Institute of Research & Studies Badminton (M) team participated in North Zone Inter University Badminton (M) Championship 2021-22 at DCRM, Murthal, Sonipat  | 20-02-2022 |
| Manav Rachna International Institute of Research & Studies Wrestling (M) team participated in All India Inter University Wrestling (M) Championship 2021-22 at Chaudhary Bansi Lal University, Bhiwani  | 7/3/2022   |
| International Women Day 2022  | 8/3/2022   |
| Hostel Boys Cricket Match   | 14-03-2022 |
| Directorate of Sports organized the 3rd "FIT India Movement" workshop as per UGC letter no D.O No- F.1 -54/2019 dated 13th December 2019. The theme-based fitness work shop for health and fitness issues of all Faculty members & Students was conducted under the guidance of experts. The work shop held at I-Block Auditorium   | 15-03-2022 |
| Manav Rachna International Institute of Research & Studies Squash (M) team participated in All India Inter University Squash (M) Championship 2021-22 at Gurukul Kangri University, Haridwar  | 23-03-2022 |
| Manav Rachna International Institute of Research and Studies allotted by Association of Indian University to Organize All India Inter University 25 Mtr. & 50 Mtr. (Pistol/Rifle) Shooting Championship 2021-22.  | 31-03-2022 |
| Manav Rachna International Institute of Research and Studies allotted by Association of Indian University to Organize All India Inter University Shotgun Shooting Championship 2021-22.   | 7/4/2022   |
| Manav Rachna International Institute of Research & Studies 10 Mtr. Rifle/Pistol Shooting (M & W) team participated in All India Inter University Rifle/Pistol Shooting (M & W) Championship 2022 at Swami VivekanandSubharti University, Meerut   | 9/4/2022   |
| Manav Rachna International Institute of Research & Studies Shooting (M) teams Selected for Khelo India University Games 2022 organized by Jain University Bangalore from 23 <sup>rd</sup> April to 2 <sup>nd</sup> May 2022. 3 Students of MRIIRS Master Anish Bhanwala (25 Mtr. Rapid Fire Pistol ), SanskarHavelia (50 Mtr. 3 P ), and Shapath Bhardwaj (Trap) Selected for Khelo India University games 2022. MRIIRS Students <b>Master Anish Bhanwala won Silver Medal for the same.</b>                                  | 23-04-2022 |
| Department of sports organized 2 <sup>nd</sup> mega sports alumni meet 2022 held on 21 <sup>st</sup> May 2022 from 4:30 pm Onwards. Graced with zealous participation of over 200 alumni for a remarkable evening Manav Rachna hosted the eventful sports alumni meet with Juxtaposition of sports and culture. Manav Rachna witnessed the vibrancy of its current sports students and alumni once again at "Nostallian" the second mega sports alumni carnival. The alumni in this meet witnessed batches from 2002 onwards. | 21-05-2022 |
| 10th Manav Rachna Inter faculty & Staff Badminton & TT tournament 2022 held from 29 <sup>th</sup> & 30 <sup>th</sup> June 2022 at Manav Rachna Sports Academy sector-14, Faridabad,   | 29-06-2022 |

## 8.5 SCHOLARSHIP/FREE-SHIP POLICY FOR AY 2021-22

**A. Schemes 'Utkarsh' and 'Uttam' for the candidates on the basis of MRNAT-2021 Score for UG & PG programmes:**

| <b>MRNAT 2021 score</b>         | <b>'Utkarsh' *</b>      | <b>'Uttam' **</b>       |
|---------------------------------|-------------------------|-------------------------|
| 90.00% & above                  | 100% Tuition Fee Waiver | 100% Tuition Fee Waiver |
| 80.00% & above but below 90.00% | 50% Tuition Fee Waiver  | 25% Tuition Fee Waiver  |
| 70.00% & above but below 80.00% | 25% Tuition Fee Waiver  | 10% Tuition Fee Waiver  |

- Scheme 'Utkarsh' is for candidates taking Admission within a period from 31st May 2021 to 15th July 2021)
- Scheme 'Uttam' is for candidates taking Admission within a period from 16th July 2021 to 16th August 2021)

**B. Free ship/Scholarships to students on the basis of marks/CGPA in the qualifying examination as per following criteria: UG level programmes (Except BDS Programme)**

| <b>Marks / CGPA in Qualifying Examination</b> | <b>Tuition Fee Waiver</b> |
|---|---------------------------|
| 95% and above                                 | 100%                      |
| 90% to 94.99%                                 | 50%                       |
| 85% to 89.99%                                 | 25%                       |

**PG level Programme (other than MDS programme)**

| <b>Marks / CGPA in Qualifying Examination</b> | <b>Tuition Fee Waiver</b> |
|---|---------------------------|
| 85% and above                                 | 100%                      |
| 80% to 84.99%                                 | 50%                       |
| 75% to 79.99%                                 | 25%                       |

**C. Freeship/Scholarships to students seeking admission for B.Tech-Engineering programmes on the basis their JEE Mains -2021 Overall All India Rank as per following criteria**

| <b>JEE Mains -2021 Overall All India Rank</b> | <b>Tuition Fee Waiver</b> |
|---|---------------------------|
| Upto 50000                                    | 100%                      |
| 50001 – 100000                                | 50%                       |
| 100001-150000                                 | 25%                       |

**D. Freeship/Scholarships to students seeking admission for BDS Programmes on the basis their NEET-2021 score/Marks as per following criteria.**

| <b>NEET-2023 Score/Marks</b> | <b>Tuition Fee Waiver</b> |
|------------------------------|---------------------------|
| 501 & above                  | 100%                      |
| 451 – 500                    | 50%                       |
| 401-450                      | 25%                       |

**E. Freeship/Scholarships to students seeking admission for MBA programmes on the basis their CAT/MAT/CMAT/ATMA-2021 Score/Marks as per following criteria On the basis of CAT-2021**

| <b>CAT-2021 score / Marks</b> | <b>Tuition Fee Waiver</b> |
|-------------------------------|---------------------------|
| 80% and above                 | 100%                      |
| 75% to 79.99%                 | 50%                       |
| 70% to 74.99%                 | 25%                       |

**On the basis of MAT/CMAT/ATMA-2021**

| <b>MAT/CMAT/ATMA-2021 Score / Marks</b> | <b>Tuition Fee Waiver</b> |
|---|---------------------------|
| 95% and above                           | 100%                      |
| 90% to 94.99%                           | 50%                       |
| 85% to 89.99%                           | 25%                       |

**F. Freeship/Scholarships to students seeking admission for B.Arch Programmes on the basis their NATA-2021 Score/Marks as per following criteria**

| <b>NATA -201 Marks/Score</b> | <b>Tuition Fee Waiver</b> |
|------------------------------|---------------------------|
| 121 & above                  | 100%                      |
| 101 to 120                   | 50%                       |
| 91 to 100                    | 25%                       |

**G. Freeship/Scholarships to students seeking admission for any UG programmes on the basis their SAT-2021 Marks/Score as per following criteria**

| <b>SAT-2023 Marks/Score</b> | <b>Tuition Fee Waiver</b> |
|-----------------------------|---------------------------|
| 1301 & above                | 100%                      |
| 1201 to 1300                | 50%                       |
| 1101 to 1200                | 25%                       |

**There is a Provision of Teaching Assistantship for the candidate enrolled for M. Tech and MPT as detailed below:**

The selected candidates having more than 70% overall marks or 7.00 CGPA in the qualifying examination shall be provided teaching assistantship on the recommendations of the committee constituted by the Vice-Chancellor of the University. Under this provision, such candidates shall be required to engage with Professors/Associate Professors of the University for Practical and Tutorial Classes with total assignments of 8-10 periods per week and they shall be paid stipend of Rs. 10000/- per month with a maximum limit of payment for 12 months during the complete duration of the M.Tech and MPT programme.

The candidate of M.Tech and MPT Programmes can either avail the above free ship policy for PG programme or Teaching Assistantship.

Note: Total Free ship /Scholarships to students under all categories stated above (from B to G) put together shall be limited to maximum 10% of the sanctioned intake for the programme of admission. Candidates in PG programmes can be associated with faculty members for proper grooming, mentorship and providing assistance to the faculty for students of UG programmes as and when required.

**H. Free ship /Scholarships to the Wards of MREI Employee:** 25% Tuition fee Waiver (limiting up to maximum of Rs. 12500/- one time at the time of Admission) to First Child only, however, if first child is already getting scholarship on the basis of Merit then this benefit would be passed to second child, if applicable.

**I. Free ship /Scholarships to the Siblings of Manav Rachna Student in any of the HEIs of Manav Rachna:** 10% Tuition fee Waiver (limiting up to maximum of Rs. 5000/- only one time at the time of admission) to the Sibling (brother/sister) of Student already enrolled in any of the Programme at HEI of MREI. Only elder one of the siblings would get the said benefit.

In case, candidate is eligible for any freeship/scholarships in either of above stated categories from A to G and falls under H/I category, he or she shall be getting this benefit over and above for H/I category to freeship/scholarship of that category with a maximum limit up to 100% tuition fee waiver.

Candidate can avail a maximum of one scholarship at a time amongst clause A, B, C, D, E, F, G as listed above.

**J. Free ship /Scholarships to the Alumni of Manav Rachna Educational Institution (except MDS):**

Student who is an Alumnus of any of the Manav Rachna Educational Institutions (Schools or HEI), eligible for 10% Tuition fee waiver (limiting up to maximum of Rs. 5000/- only one time at the time of admission) during admission to the programs offered by any of the HEI. In case any candidate is eligible for any freeship/scholarship in either of above stated category from A to I he /she shall be getting this benefit over and above to freeship/scholarship of that category with a maximum limit up to 100% tuition fee waiver. NDS student of BDS, MRIIRS opting for admission in MDS add MRIIRS will be eligible for 5% tuition fee waiver.

#### NOTE:

- For the purpose of Scholarship/tuition fee waiver, the marks will not be rounded off to the next higher figure and calculation of percentage of marks shall be made on the basis of eligibility subjects in the qualifying examination (same number of subjects).

#### Conditions for Continuation of Free ship / Scholarship in Subsequent semesters mentioned above:

Progress of students awarded scholarship in subsequent semesters shall be reviewed after the end of every semester for continuation, based upon his/her performance in the previous semester. For continuation of scholarship student shall be required to:

- Maintain a minimum SGPA of 7.5 in each semester without any backlog.
- Have 85% attendance in all courses in each semester.
- Applicants should not have been suspended for any grave act of indiscipline by the university.

- No disciplinary action against the applicant is established or pending in case of ragging or eve teasing.
- The applicant should not be receiving any other scholarship from any other source whatsoever, for which a certificate signed by student & parents is to be provided.

**K. Suitable free ship shall be available to high achievers in the field of sports, persons suffering with Thalassaemia Major, Sons/daughters of army personnel who have been killed in war /terrorist attack ,physically handicapped students etc. on case to case basis.**

**L. Scholarship for outstanding achievers in sports category A provision of scholarship for outstanding achievers in sports is available for admission seeker at Higher Educational Institutions (HEIs) as per following categories:**

| <b>Event/Level</b>                                | <b>Participation</b> | <b>Medal Win</b>    |
|---|----------------------|---------------------|
| Olympics  | 100% of Tuition Fee  | 100% of Tuition Fee |
| Asian Games / Asian Championship                  | 75% of Tuition Fee   | 100% of Tuition Fee |
| Common Wealth Games                               | 50% of Tuition Fee   | 75% of Tuition Fee  |
| World Cup   | 50% of Tuition Fee   | 75% of Tuition Fee  |
| National  | 25% of Tuition Fee   | 50% of Tuition Fee  |
| State (with compulsory participation in National) | –                    | 25% of Tuition Fee  |

The candidate seeking admission to any of the above categories of sports shall be required to produce the relevant documents of proof of his/her participation and Medal Won. The Sports Committee under Director-Sports will take the final decision regarding Scholarship.

The scholarship under this category shall be given in the first semester and its continuation shall be decided by a committee constituted by the Competent Authority of the Institution / University.

### **Introduction of Merit cum Means Scholarship for domicile students of Haryana from 2021-22 Onwards**

A new scholarship scheme i.e Merit cum Means Scholarship for domicile students of Haryana from 2021-22 shall be awarded to the 25% students who are domicile of Haryana. The scheme is applicable to all the students whose parents have annual income up to Rs.2.80 Lacs all sources. Under the scheme the student shall be given fee waiver limited to the tuition fee as per the following scale.

Candidates are required to pay other fee as applicable to the program concerned

- One-fifth of the 25% students shall be granted 100% tuition fee concession.
- Two-fifth of the 25% student shall be granted 50% fee concession.
- The balance Two-fifth of the 25% students shall be granted 25% fee concession.

#### **Conditions for continuation of scholarship in subsequent years**

- Applicants must fulfil the following criteria for claiming the fee concession:
- The attendance criteria of the university that is 75% attendance.
- Maintain minimum SGPA of 7.0 in each semester without any reappear or absenteeism.
- Applicants should not be suspended for any grave act of indiscipline by the university.
- No disciplinary action against the applicant is contemplated or pending in case of ragging or eve teasing.
- The applicant should not be receiving any other scholarship from any other source whatsoever, for which a certificate signed by student or parents is to be provided

#### **MERIT SCHOLARSHIP OTHER THAN ABOVE SCHOLARSHIP/FREESHIP**

In order to motivate the students for better and sustained academic performance, Manav Rachna offers 'Merit Scholarship to Semester/Branch Toppers' enumerated below for students securing 1st, 2nd and 3rd positions in the Odd & Even semester exams (Based on the amalgamated SGPA/CGPA) every year for each programme being run at Manav Rachna, as under:

1. First Position: 25% of tuition fee or ₹25,000 - whichever is less
2. Second Position: 15% of tuition fee or ₹50,000- whichever is less
3. Third Position: 10% of tuition fee or ₹10,000- whichever is less

The following are the guidelines for granting these Merit Scholarships:

1. Any programme having a strength of 90 students or more in the semester exam shall qualify for first, second and third position scholarship.
2. Any programme having strength more than 50 students and less than 90 students in semester exam shall qualify for first and second position scholarship, otherwise only a solitary topper shall be given a first position scholarship.
3. If the strength of a course is 10 or less no scholarship will be awarded for that course.

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## CHAPTER 9

# INSTITUTIONAL SOCIAL RESPONSIBILITY

Manav Rachna International Institute of Research & Studies, along with creating excellence and professionalism, is committed to social causes and hence, is pleased to contribute to International Philanthropy with the grand aim of improving the quality of life of people around. MRIIRS is committed to fulfilling its duty towards the Nation or broadly we say World by promoting the inclusive Growth and Development of Society and its people and conserving the diversity of Cultures, and protecting Environment and the Planet.

Manav Rachna International Institute of Research & Studies has been playing a pioneering role in summarising the Institutional Social Responsibility since its inception in 1997 as a Career Institute of Technology and Management (CITM). The projects undertaken by MRIIRS includes creating awareness about diseases such as Thalassemia, Haemophilia, Mouth Cancer, Dengue etc. Various Health Check-up Camps and Blood donation Camps have been organised. The institution, with the inception of CITM has been taking up various activities for the cause and benefit of the Society, building up in the process, a sense of community and team work among teachers, students, faculty and staff.

Under the Institutional Social Responsibility MRIIRS undertakes development activities, Research and Training in the following fields: -

### **Education, Capacity building of people and Creating knowledge societies**

This aims to provide global and regional leadership in education in order to strengthen education systems.

### **Protecting and Reviving our heritage and Fostering creativity**

It endeavors to protect and safeguard the cultural and natural heritage. It supports, promotes and encourages creativity and hence, works towards sustaining our heritage and protects it for our future generations.

### **Sustainable Development and Environmental Protection**

It focuses on reducing energy consumption, creates awareness about produce and use of sustainable clean and green energy. It also lays emphasis on conserving water, trees, and other natural resources.

### **Gender equality, Sexual and Reproductive Justice and Health Care**

It aims to work towards gender equality and women empowerment in a multi-pronged approach by awareness campaigns, capacity building, changing mindsets and perceptions of men and youth, and implementing programs and schemes for the cause.

### **Global, Physical, Psychological and Spiritual Health and Well-being**

It takes steps towards achieving total health i.e. physical, mental, emotional and spiritual to improve the quality of life for the society as a whole.

## **Inclusion, Mainstreaming, Development, and Empowerment of sections of society who are marginalized, vulnerable and with special needs**

It aims to bring together the marginalized section of the society or a group and works towards building an inclusive society where no one is left behind. It focuses on the vulnerable section of the society and tries to take them forward as a group.

### **Geriatric Healthcare and Well-being**

It aims in working towards the welfare of elderly by training and empowering them for new employment. It also works towards their holistic health and well-being.

### **Our Initiatives:**

#### **1. Sustainable Alternative- Cloth Bags (creating best out of waste)”**

On July 1, 2022, the Indian Government’s mandate to ban single-use plastics came into effect. MRIIRS in association with Dr. O.P Bhalla foundation took up the initiative “Sustainable Alternative- Cloth Bags (creating best out of waste)” to spread awareness about the ban and also educate people about the alternatives. Three sessions have been held till date at GSSS Anangpur, Sanatan Dharm Public School and Sneh Ashram (Skill Centre for Women) where Students were taught to use old t-shirts, shirts and tops that are not usable and make cloth bags by using a needle and a thread. 300 cloth bags have been made through these workshops.



#### **2. Plantation Drive:**

Dr. O.P. Bhalla Foundation and MRIIRS for Peace and Sustainability distributed around around 2700 plants under the Annual Mega Plantation Drive in August 2022 various locations in Faridabad listed as GMS Sirohi, GMS Teekri Khera, GGSSS NIT 3, GGSSS NIT 3, GSSS Lakkarpur, GSSS Panheda Khurd, GSSS Dhauj and Eco Club (NGO).

The Volunteers also motivated School Students to take Green Oath in an effort to keep the environment clean and green.

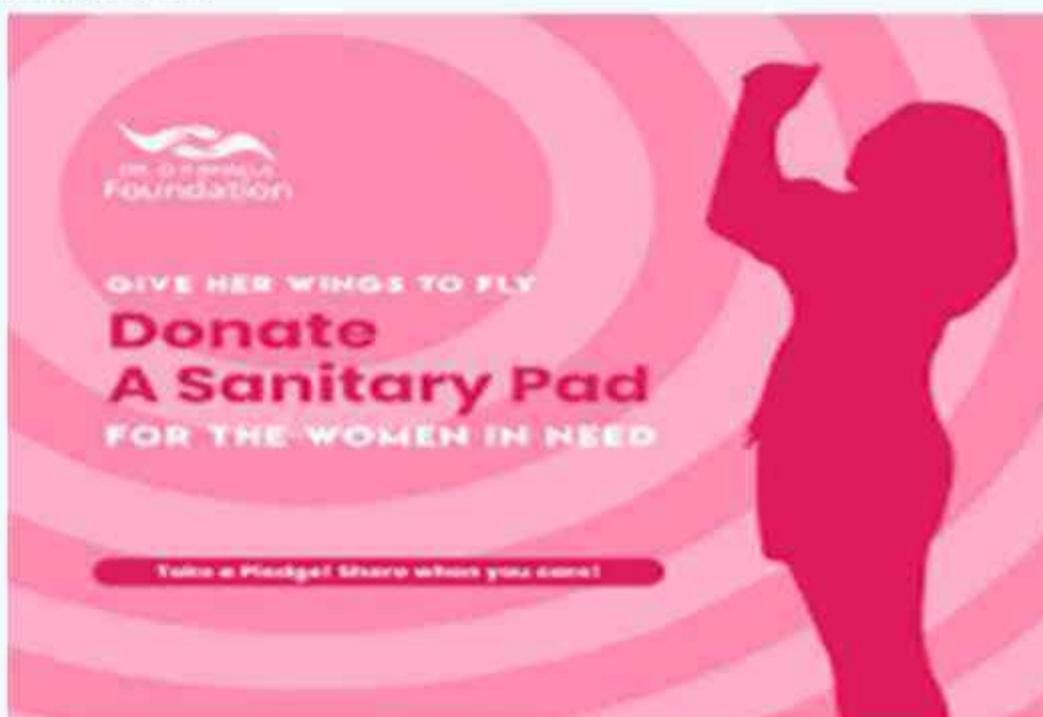


### 3. Give her Wings to Fly:

Give Her Wings to Fly is an initiative initiated by the MRIIRS in collaboration with Dr. OP Bhalla Foundation to destigmatize the taboos around menstruation. In India, there is a high level of stigma regarding menstruating women.

MRIIRS student volunteers visited Government Girls School, Mohna, where the students were educated on menstrual hygiene and encouraged to talk about menstruation without being shy.

Sanitary napkins are not readily available, especially in rural areas. Since a level of secrecy is supposed to be maintained about them, their unavailability never becomes a topic of debate. Therefore, Team Foundation distributed more than 450 packets of sanitary napkins, consisting of over 2700 napkins, to the students at the school.



#### 4. Blood Donation Camp:

Mega Blood Donation Camp was organised on September 16, 2021 in association with Rotary Blood Bank at the MRIIRS campus. The camp was inaugurated by Sh. Krishan Pal Gurjar, Hon'ble Union Minister of State for Power & Heavy Industries. Following strict social distancing norms, students and staff members donated 534 units of blood over staggered slots.



#### 5. Ek Mutti Daan:

Manav Rachna International Institute of Research and Studies in collaboration with Dr. OP Bhalla Foundation collectively donated 7489 kgs of grains (dals & rice) to mark 25 years of Manav Rachna's existence under the Ek Mutthi Daan campaign (No One Sleeps Hungry). These grains were donated to 17 NGOs working for the betterment of the underprivileged and the housekeeping, maintenance workers and construction workers of Manav Rachna Campus. The donations were handed over by Dr. N C Wadhwa, DG, MREI in the presence of Sh. Krishan Pal Gurjar; Sh. Narender Gupta, MLA, Faridabad; Dr. Prashant Bhalla, President, MREI; Dr. Amit Bhalla, VP, MREI; Sh. Navdeep Chawla, Sh. H K Batra, and other senior dignitaries. The donations were made by 187 students and 170 faculty members and Heads of various departments of MRIIS.



## 6. Physiotherapy and Nutrition & Dietetics Camps:

A community health camp was organized at Springfield colony at Sector 31-32 Faridabad in association with RSS on 27th November 2021, as part of the Health for All mission. The motto of the camp is to fulfill the dreams of nation-building and concentrate on the development and upliftment of the underprivileged and marginalized section of society. Keeping this motto various steps have been taken for the upliftment of patients who have been suffering and cannot afford to go to hospitals.



## 7. Visit to Rescue Home for Boys for an Art Session:

MRIIRS Students visited a Rescue Home for Boys located near Tikona Park, NIT 1 on 8th June, 2022. The purpose of the visit was to sensitize the Interns and educate them about various such institutions and their ground realities. This Rescue Home is run by the Government of Haryana with a capacity of 100 Students. Currently 40 students are living there. The organisation gives shelter to boys who are orphans, beggars, ragpickers and further categorised into 14 such groups. Apart from studies, a keen interest in sports is developed which helps them to lead a healthy and an active lifestyle. Due to the ill-timed funds and mismanagement, the organisation faces a lot of difficulties.

Mr. Maniram, (Warden and Caretaker) explained the functioning of the rescue home and talked about the challenges and hardships of running such establishments. Despite the challenges, their Students have participated in District and State level Competitions. A special interactive session on personality development was organized for the boys by Mr. Sanjay, Security and Discipline Officer, MREI.

Dr. O P Bhalla Foundation in collaboration with 'Yubingo' donated t-shirts to all children. The children had an interactive fun session with the Interns. The visit ended with a tour of the Rescue Home.



## 8. Visit to old age Home

On the occasion of Baisakhi, Dr. OP Bhalla Foundation Students of MRIIRS visited Saint Hardyal Educational and Orphan Welfare Society (SHEOWS), an old age home and a partner NGO.

SHEOWS is a home away from home for the abandoned elderly of our country. For 16 years, the organisation has provided free shelter, food, clothing, medical facilities, and affection and care to the needy and abandoned elderly. Society is based on the principle of serving the trodden elderly who are in desperate need of love and care.

The Student conversed with them and made them feel appreciated. The interactive session also included a narration of personal life stories by the inmates of SHEOWS. Student Volunteers entertained them with musical performances. Dr. OP Bhalla Foundation strongly believes that helping the old aged people and spreading the awareness of more senior health care will not only give them a ray of sunshine but will also reflect on the issue of elderly abuse in society.

## 9. Free Community Health Check-Up Camp and Health Talk on Management of Arthritis

The free community health check-up camp was organised on December 06, 2021 by Department of Physiotherapy A total of 80 patients visited the camp. A team of physiotherapists comprising Dr. Pooja Sharma, Dr. Preeti Saini and 35 students examined and treated the patients with various conditions like ankle pain, knee pain, wrist pain, low back ache and generalized body weakness.

## 10. Utility Items Donation Drive

This Christmas Khidmat- NSS Society, Department of Students Welfare tried to bring smiles to others' faces by organising a Cloth Donation Drive from 6th-27th December 2021 at Campus.

The main motive behind this drive was to work on an ultimate mission of NSS that is "NOT ME BUT YOU". 25 active students from the NSS Team came forward and took the initiative. A huge winter cloth donation was done by the students and the Faculty Members of Manav Rachna.

Team Members of NSS Society along with Dr. Pooja Khurana- Faculty Coordinator visited Sevadharam Patient Care Society, Sector 15-A, Faridabad, Haryana on 29th December 2021 and donated the utility items. Also, they interacted with the senior citizens who were left out of by their family members. Sevadharam Patient Care Society overlooks the selfless act of caring and provides facilities like Old Age Home, Nursing Care, Patient Care, Food for Hungry and Ambulance Seva for the needy.

Department of Students Welfare extends gratitude to the members of the Manav Rachna family for making this drive successful and bringing a significant change in society. Similar drives will be held in continuing frequency to make a larger impact on the welfare of society





### 11. Visit to NGO

The 14 students of Department of Commerce, MRIIRS visited Prabhat NGO for celebrating Children's Day on 12th November 2021. The NGO was for Divyaang and orphan children. There were 22 children living. Children who are differently abled are taught by an experienced teacher Ms. Molly.



### 12. Teacher on Call

MRIIRS in collaboration with Faridabad Education council and Dr.O.P.Bhalla foundation in close association with Sahaj Path Knowledge foundation launched "Teacher on Call" program to enhance the quality of academics in Government Schools of Faridabad and Palwal Districts by providing "Helpline" toll-free number to registered students for getting their queries and problems solved through remedial teaching online by a dedicated group of 300+ teachers drawn from MRIIRS and other schools and private individuals from different walls of life, who volunteer themselves for this noble cause.

The initiative was brought to a close by encouraging each student to submit one or more Eco-Bricks so that they can be used to create artifacts on the campus.



**Teacher on Call\***  
Service Tollfree Number: 1800 890 6006  
**INCLUSIVE AND QUALITY EDUCATION FOR ALL**  
Under  
Faridabad Education Council (FEC) &  
Manav Rachna Educational Institutions (MREI)  
in Collaboration with  
Sahaj Path Knowledge Foundation (SPKF)  
**A Not for Profit Organization**  
(A Charitable Trust)

\*As recommended by West Bengal Education Commission





GSC is committed to organize Webinars, Seminars, Panel Discussions, and Workshops etc. for Gender Awareness, Gender Sensitization, and Women Empowerment etc.

It includes awareness to concerns like Gender based Violence; Gender based Discrimination, Fundamental Rights etc.

The activities are conducted by GSC using the following experiential techniques:

1. Awareness drives related to Women Empowerment and Gender Equality all through the year.
2. Celebration of International Women's Day in association with DSW.
3. Activities on Gender Stereotypes via role plays and workshops.
4. Motivating girl students and women staff to take leadership roles in the campus.
5. Motivation to Female Student/employee to accept the leadership roles in the Campus

Following action activities aided to increase affirmative action and empowerment in the above areas.

## Gender Sensitizing Cell: Activities AY 2021-22

| S. No | Schedule              | Audience                    | Theme/Topics   | Faculty |
|-------|-----------------------|-----------------------------|--|---------|
| 1.    | May 2022 to June 2022 | Students and Staff          | Rethinking gender and Consent  | FMS     |
| 2.    | May 2022              | Students and Staff          | "International Day of Action for Women's Health"   | FMS     |
| 3.    | April 2022            | Students and Staff          | 'Women's Safety at Workplace: Prevention of Sexual Harassment'   | FMS     |
| 4.    | March 2022            | Students and Staff          | International Women's Day Celebration  | FBSS    |
| 5.    | March 2022            | Students and Staff          | Sports event & Sports activities as a part of the Manav Rachna Silver Jubilee Celebration on the occasion of international women's day | FMeH    |
| 6.    | March 2022            | Students and Staff          | Insta Live to Create Awareness On Trans Rights   | MRDC    |
| 7.    | Feb 2022              | Students and Staff          | Workshop on Women Health and Ethics  | FBSS    |
| 8.    | Feb 2022              | New Batch of - BDS Students | Gender Sensitization- Breaking Barriers  | MRDC    |
| 9.    | October 2021          | Students and Staff          | Unequal Pay: Gender Discrimination at News - Media Workplace   | DSW     |
| 10    | October 2021          | Students and Staff          | Role Play on Classical Greek Tragedy Antigone, "Let's Celebrate The Female Literary Hero"  | FCBS    |
| 11    | September 2021        | Students                    | Slogan Writing Competition on 'Women Empowerment'  | DSW     |
| 12    | August 2021           | Students                    | Poetry Writing Competition on 'Women Empowerment'  | DSW     |

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