



# **Manav Rachna International Institute of Research & Studies**

(A Deemed to be University, under section 3 of the UGC Act, 1956)  
NAAC Accredited 'A' Grade University

## **ANNUAL REPORT 2020-21**

## “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 Chancellor'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 super power in the next decade or two. With this in view, we have stepped in to cater to futuristic academic ecosystem for the student community. Our endeavour is to create opportunities in various fields by subsuming 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 the 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 Corona virus, 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. Amit Bhalla**  
Vice President, MREI

## From the Vice President's Desk

It gives me immense pleasure to present the Annual Report for the year 2020-21 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 reaccredited 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. Committed to academic reforms, the University is making proactive efforts to develop and implement innovative curricular frame work 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 enthruses confidence amongst its stakeholders.

The year 2020-21 brought many challenges, along with it. The entire faculty and staff of Manav Rachna came together in these tough times to lay an emphasis on continued academic excellence via online classes and blended learning model. 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 majority of the faculty members presented papers, delivered key note 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 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.



## **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 2020-21, 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 multidisciplinary, 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 in the 21st Century. 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 future. To catalyze this, the University is making proactive efforts to develop and implement innovative curricular frame work 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 multidisciplinary 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.

The previous year has been challenging in more ways than one and MRIIRS showed unparalleled commitment and competence to academics. In such desperate times and with such desperate measures, the staff and faculty of Manav Rachna has handled personal, household and professional responsibilities meticulously. It is a testimony to their commitment 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 key note 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.



## **OFFICER(s) OF THE UNIVERSITY**

### **CHANCELLOR**

Dr. Prashant Bhalla

### **VICE CHANCELLOR**

Prof. (Dr.) Sanjay Srivastava

### **PRO VICE CHANCELLOR**

Prof. (Dr.) Naresh Grover

### **PRO VICE CHANCELLOR**

Prof. (Dr.) Pardeep Kumar

### **PRO VICE CHANCELLOR**

Prof. (Dr.) G.L. Khanna

### **REGISTRAR**

Sh. R. K. Arora

### **DEAN ACADEMICS**

Prof. (Dr.) Naresh Grover

### **DEAN RESEARCH**

Prof. (Dr.) Sarita Sachdeva

### **DEAN STUDENTS' WELFARE**

Prof. (Dr.) Gurjeet Chawla

### **CONTROLLER OF EXAMINATIONS**

Sh. N. K. Sharma

### **PROCTOR**

Prof. (Dr.) Naresh Grover

### **UNIVERSITY LIBRARIAN**

Dr. Vikram Sharma (upto Dec 2020)  
Dr. Mamta Sharma (Deputy Librarian)

## **DEAN(s) OF FACULTIES**

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

Prof. (Dr.) Pardeep Kumar w.e.f. 01.10.2020

### **FACULTY OF APPLIED SCIENCES**

Prof. (Dr.) Moattar Raza Rizvi w.e.f. 27.01.2020 (Director)

Prof. (Dr.) Moattar Raza Rizvi w.e.f. 01.09.2020 (Dean)

### **FACULTY OF MANAGEMENT STUDIES**

Prof. (Dr.) Nand Lal Dhameja

### **FACULTY OF COMPUTER APPLICATIONS**

Prof. (Dr.) S. S. Tyagi

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

Prof. (Dr.) Maithali Ganjoo w.e.f. 06.01.2020 (Director)

Prof. (Dr.) Maithali Ganjoo w.e.f. 05.06.2020 (Dean)

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

Prof. (Col.) Sanjeev Gupta w.e.f. 20.11.2019 (Director)

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

Prof. (Dr.) Monika Goyal w.e.f. 13.01.2020 (Director)

Prof. (Dr.) Monika Goyal w.e.f. 01.09.2020 (Dean)

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

Prof. (Dr.) Chavi Bhargava Sharma

### **FACULTY OF DENTAL SCIENCES**

Dr. Arundeeep Singh



## CHAPTER-1

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 2020-21, 54 programmes were offered under 10 teaching Faculties in the University. MRIIRS has forged knowledge partnerships with leading organizations like IBM, Intel, Infineon, Mitsubishi, Xebia, Red Hat, CISCO, UI Path, Quick Heal, Honda Motors, Palo Alto, 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 of 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, expert talks is organized to enable students to transcend far beyond the classroom teaching.

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### **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.

On behalf of Manav Rachna International Institute of Research and Studies Dr. Gurjeet Kaur Chawla, Dean Students Welfare and Director Radio Manav Rachna and Ms. Yashika Hasija, Manager Students Welfare received the award from Sh. Yashpal Yadav, Deputy Commissioner Faridabad.

CAIRN Oil & GAS, VEDANTA LIMITED has awarded a prestigious Consultancy Project on Hydrogeological Survey for Aquifer Monitoring at Barmer, Rajasthan to the 'Centre for Advance Water Technology Management' at MRIIRS under the leadership of Dr. Sarita Sachdeva, Dean Research.

Receiving the prestigious project for the third year in a row is an unparalleled achievement.







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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 450 MOOC certifications were acclaimed by the faculty members during Annual Year 2020-21 on various platforms including: NPTEL SWAYAM, Coursera, Edx, PTech, IBM Cognitive Class, Cisco, upGrad.
- More than 500 FDP and Conference certifications have been acclaimed by the faculty members during the Annual Year 2020-21.
- 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 Department of Business Studies to conduct a 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.
- A series of FDPs were conducted in association with AICTE. FDPs on emerging areas including Cyber Security, Internet of Things (IOT) for Emerging Engineering Applications, Artificial Intelligence and Machine Learning, Industrial Automation, Entrepreneurship Development etc.
- FDPs on Research in Virtual world, Scientific Writing and Reference Management using Mendeley, Research Methodology and Data Analytical ICT Tools and techniques, IPR and Basics of Patent Filing, Training on Qualitative Research, etc witnessed a huge set of audiences.
- As per the mandate of AICTE, faculty members enrolled themselves for FDP on Universal Human Values and successfully completed their training programmes.

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

Cisco Global Problem Solver Challenge 2020: Team CAELI - An automated Anti-Pollution and Drug delivery mask for Asthmatic Patients was developed by Aakash Bhadana, Bharat Sundal, Dipesh Narwat, Ishlok Vasishtha and Vasu Kaushik. Team has won People's Choice (10K USD) and India Impact People's Choice Award (5K USD).

Cisco Global Problem Solver Challenge recognizes new business ideas that leverage technology for social impact from student entrepreneurs around the world.

Manav Rachna Dental (BDS student Mr. Sunansh Malik) and Engineering Students (Mr. Vaibhav Dagar and Mr. Yash Kaushik) join hands to launch 'Sukoon-A mental health application'. They have incubated a health tech company 'SynsalusTechnomed LLP' at Manav Rachna.



- Manav Rachna Team (10 students from Bio-tech and 2 from CSE) won Bronze at one of the biggest International competitions in Synthetic Biology -International Genetically Engineered Machines 2020 organized by MIT, Boston, USA.
- Sensor based Smart Watch Switch system that can be operated without any physical touch or contact is another innovation during the Covid Pandemic. Team has registered their start-up namely Helix Smart Labs at MRIIC.
- Students of Manav Rachna Dental College stood Topper in Pt. B D Sharma University Examinations: BDS students across all the years at Manav Rachna Dental College have proved their mettle by securing top positions among all the students of Pt. B D Sharma University of Health Sciences.
- Manav Rachna's Team (Makershala -Technoplanet Lab Pvt Ltd: a startup incubated at Manav Rachna) developed a cost-effective Face Protection Shield for the Healthcare Professionals working selflessly amidst Covid-19 pandemic which has been tested and reviewed by the medical team of Sravodya Hospital on the occasion of World Health day.

Research Team from Manav Rachna developed "ANSH" -a low cost Ventilator: Students working under Manav Rachna Innovation and Incubation Centre designed a low cost portable emergency ventilator to provide temporary oxygen supply for patients with emergency needs at remote locations.

## NIRF Ranking 2021

The Union Education Minister Sh. Dharmendra Pradhan released the sixth edition of the **National Institute of Ranking Framework (NIRF)** ranking 2021 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, Dental 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 Dental Studies: Faculty of Dental Sciences, Manav Rachna Dental College, MRIIRS has secured the 39th rank all-across India. It is the third best Dental College of Haryana as per the Ministry of Education's NIRF Rankings 2021 (closely behind PGI Rohtak and MMU, Ambala).

In Engineering, jumping 56 ranks in a year; MRIIRS is ranked at No. 118 across India. It is the third best for Engineering in Haryana (closely behind NIT Kurukshetra).

MRIIRS has also moved ahead by a complete band (an approximate jump of 60 places) in the University category where it is placed in the Rank Band 101-150.

Ecstatic on receiving these rankings, Dr. Prashant Bhalla, President, Manav Rachna Educational Institutions congratulated all the people of Haryana and the team at Manav Rachna. "These rankings, in our 25th year of existence are even more special and re-affirm our stance on quality education, best infrastructure, industry support and excellent placements across all our courses. Our institutes have scored well on parameters such as Teaching, Learning and Resources (TLR), Research and Professional Practice (RP), Graduation Outcomes (GO), Outreach and Inclusivity (OI), as well as peer perception".



## “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 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 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 has made sufficient headway in promoting and providing a research culture for its students and faculty members. They are generously encouraged to pursue research and innovation in Research Cluster labs and Centre of Excellences under its Research Innovation and Incubation Centre. The Institution has to its credit, more than 6800 research publications in International and National Journals and Conferences. This includes more than 1000 papers listed in the Scopus database and 600 plus in Web of Science and SCI. More than 800 book chapters (with around 45 book chapters indexed in Scopus) have been authored by the faculty members. MRIIRS was awarded funding of Rs. 2.87 Crores for setting-up New Generation Innovation and Entrepreneurship Development Centre under National Initiative for Developing and Harnessing Innovation during 2017 and is in the third year of the project. NIESBUD has empanelled MRIIRS under Pradhan Mantri Yuva Yojna for training, consultancy and research in order to promote Entrepreneurship. A research project for capacity building of women entrepreneurs was awarded by ICSSR with funding of 10,00,000/- in year 2019. Another research project for conducting study with probable technological solution on water-logging in Faridabad City has been awarded by DST, Govt with funding of Rs 68 Lakhs in the year 2020. Several other research projects, sponsored projects, consultancy projects are going on at the Campus.



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.

### Quality:

MRIIRS strives continuously to improve 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.

### Vision:

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 golden heart, who work and dedicate themselves for 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, Multi-media, Applied & Performing Arts

### 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.

## 1.2 Academic Programmes

There are ten teaching Faculties offering 54 programmes (30 UG and 23 PG) along with PhD programme in the University. Well known experienced academicians and professionals are associated in preparing the academic curriculum of different programs strictly as per the guidelines of the UGC / AICTE and other Regulatory bodies. The emphasis is to impart quality education and to offer a congenial and liberal environment in the campus. The promotion of sports and extra-curricular activities is one of calculated strategies. Sport events are organized at a regular interregnum and students are encouraged to participate in such activities that not only enhance their co-curricular content and professional needs but also expand their horizons beyond the professions they are going to pursue.

The co-curricular related activities, organized to explore what is the best in the students. "Creating better human beings" is the motto of Manav Rachna International Institute of Research and Studies. While achieving academic excellence, at MRIIRS acquisition of knowledge skills is facilitated by organizing conferences, seminars, workshops and continuing education programs. Talent clubbed with hard work is a key element to success and the University has witnessed this with its proactive staff and students. Excellence being our mantra, all our effort and each of the endeavours are directed towards it.

The following academic programmes were offered in 2020-21:

### Faculty of Engineering & Technology (FET)

#### B. Tech (4 yrs.)

1. Aeronautical Engineering
2. Automobile Engineering
3. Biotechnology
4. Civil Engineering
5. Computer Science & Engineering
6. B.Tech-Computer Science Engineering –Digital Forensics Cyber Security
7. B.Tech-Computer Science Engineering –Gaming Technology
8. Electrical & Electronics Engineering.
9. Electronics & Communication Engineering
10. Mechanical Engineering
11. B. Sc (Hons.) Geology - (3 yrs.)

## **M. Tech & M.Sc. Programmes (2 yrs.)**

1. M. Tech. Biotechnology
2. M. Tech. Mechanical Engineering
3. M. Tech. Electronics and Communication Engineering
4. M. Tech. Computer Engineering and Networking
5. M. Tech. Automation and Robotics
6. M. Tech. Civil Engineering (Specialization in Structural Engineering / Construction Management / Transportation Engineering).
7. M. Sc. Biotechnology
8. M. Sc Applied Geology

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

1. Bachelor of Physiotherapy (BPT) – [(4½ yrs..) with 6 months compulsory internship]
2. Master of Physiotherapy (MPT) with specialization in Musculoskeletal / Cardio Pulmonary / Sports / Neurology - (2 yrs.)
3. Bachelor of Science - Nutrition and Dietetics including two months Clinical / Industrial Training (3yrs.)
4. Master of Nutrition & Dietetics (2 yrs.)
5. B.Sc (Hons) Food Science & Technology (3 yrs.)

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

1. Master of Business Administration with Dual Specialization (2 yrs.)

## **Faculty of Hotel Management**

1. Bachelor of Science – Hospitality and Hotel Administration (3 yrs.)

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

1. Bachelor in Computer Applications (BCA) - (3 yrs.)
2. Bachelor of Science - 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. M.Sc. Interior Design (2 yrs..)
4. 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 Commerce (B.Com) Hons - (3 yrs.)
5. Master of Commerce. (2 yrs.)

## **Faculty of Behavioural & Social Sciences (FBSS)**

1. B.A (Hons.) - Applied Psychology (3 yrs.)
2. B.A (Hons.) - Economics (3 yrs.)
3. B.A - Liberal Arts (3 yrs.)
4. M.A - Applied Psychology (2 yrs.)
5. M.A- Economics (2 yrs.)

## **Faculty of Dental Sciences (FDS)**

1. Bachelor of Dental Surgery (BDS) - (5 yrs.)
2. Master of Dental Surgery (MDS) - Prosthodontics and crown & Bridge (3 yrs.)
3. Master of Dental Surgery (MDS) - Orthodontics & Dentofacial Orthopedics (3 yrs.)
4. Master of Dental Surgery (MDS) - Conservative Dentistry & Endodontic (3 yrs.)
5. Master of Dental Surgery (MDS) - Pedodontics and Preventive Dentistry (3 yrs.)
6. Master of Dental Surgery (MDS) – Periodontology (3 yrs.)

## 1.3 Knowledge Partners



**Microsoft Corporation (MS)** is an American multinational technology based company. It is involved in development, manufacturing, licenses, supports and sells computer software, consumer electronics, personal computers, and related services. Its best-la-town software products are the Microsoft Windows line of operating systems, the Microsoft Office suite, and the Internet & Edge web browsers. MRIIRS and Microsoft have joined hands to introduce a new programme B.Tech. in CSE (Hons) with specialization in Artificial Intelligence and Machine Learning, Cloud Computing which are designed to better equip students with the next generation of technologies like building intelligent machines, domain knowledge in cloud architecture and IoT environments, software and applications with a cutting-edge combination of machine learning, cloud computing, analytics & visualization technologies. As per the partnership, Microsoft will provide the university with knowledge expertise and training resources on cutting edge technologies leveraging on its decades of expertise in the field of computing. MRIIRS students will be provided learning opportunities in real world work situations that will keep them abreast of the latest skills and knowledge of using Microsoft tools and resources. To adequately prepare themselves for the industry qualifying students will be given the chance to participate in the technical activities, competition, internship and placements. The company's long-standing commitment towards better-informed generation of talented workforce will be the base of this collaboration.



**IBM**, a well known multinational conglomerate having a turnover of more than US \$ 100 billion with Headquarters at New York, US has tied up with MRIIRS to jointly offer B.Tech. - Computer Science & Engg. with specialization in Cloud Computing, Business Analytics & Optimization, IT Infrastructure Management, Cyber Security & Forensics, Mainframe Technology, Open Source Software & Open Standards, Graphics and Gaming Technology. IBM primarily having worldwide business in Computer Hardware/Software, IT Services and IT Consulting (provide LMS), provide training for the Teacher Programme, Student Projects, Expert Lectures, Industry connectivity for both the students and the teachers, so as to enable them to experience the live IT Environment. The arrangement shall help students to acquire domain skills in the most advanced areas of IT and preferential placements by IT companies. Students enrolled in this programme shall have access to an online Eco-system Platform namely Innovation Center for Open Standards enabling them to access course material, discussion forums, student projects, industry mentors and news-clips. IBM shall also issue certificates for various modules after successful completion.



**Infineon:** A Memorandum of Understanding (MoU) was signed between Manav Rachna International Institute of Research and Studies (MRIIRS) and Infineon Technologies Asia Pacific Pvt Ltd to establish an 'Infineon Centre of Excellence' at the MRIIRS campus. The purpose of this collaboration is to work on multiple joint projects to nurture India's future generation of power electronics engineers and to enhance academic and industry co-operation. This Centre will ensure hands-on practical exposure for the students and help them to acquire the new technologies being practiced in the semiconductor industry. Infineon is a world leader in semiconductor solutions that make life easier, safer and greener. This initiative shall provide a platform to students to enhance their skills and get access to world-class training. Selected students will be offered internships by Infineon Technologies. Students will be empowered through regular workshops and expert lectures on the semiconductor industry.





**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, MRIIRS 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 class room 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.



**HMSI** - The department of Automobile Engineering of Manav Rachna International Institute of Research and Studies in association with Honda Motorcycle and Scooter India Private Limited (HMSI) has opened centre for Automotive Training & Research. In this association HMSI will provide technology support to MRIIRS for setting up training and research infrastructure for MRIIRS students. This association provides a platform to the students of Mechanical / Automobile / Electronics & Electrical branches to take up research projects in emerging areas in association with HMSI. This Automotive Training & Research will offer short-term courses for two-wheeler technicians and high-end courses for executives of HMSI. The offered courses will provide hands on training on servicing of two wheelers with their fault diagnosis and rectification. This will also update the frequently changing technological advancement in the auto sector of senior executives of HMSI and their associates. Research areas will be focused on improving efficiency of engines, alternative sources of energy with improved design features of vehicle and its components.



**ATMEL** India University program partners for sponsoring labs and organizing FDPs, events, workshops on ATMEGA168PB and SAM D21 Microcontrollers.



**Inter-Continental Hotels CROWNE PLAZA Group** (Crowne Plaza Homs & RESORTS Hotels): Manav Rachna International Institute of Research and Studies and Inter-Continental Hotels Group (Crowne Plaza Hotels) have entered into an Academic Partnership to provide opportunities to the Hotel & Hospitality Administration students to develop their hospitality skills and improve their employability. The MoU will open up exciting avenues for the students of B.Sc HHA for acquiring rare skills and finesse from senior professionals (International Chain, IHG).



**R-Systems:** MREI have signed a MoU with R Systems International Ltd. Noida for enriching the technical education process by providing industrial training to the students and jointly work on research based industrial projects. R Systems, a specialized IT Services & Solutions and IT - enabled Services provider catering to a wide range of global customers. The company provides software development and maintenance support to many of its prestigious clients & medium sized businesses.



**EdGate Technologies Pvt. Ltd. :** University Programme Partner of Texas Instruments (TI), India has signed an MOU with MRIIRS for setting up a joint Lab entitled "Texas Instruments Embedded System / Microcontrollers" at MRIIRS premises. EdGate Technologies Pvt. Ltd. will provide equipment and training material to set up the lab based on TI 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 and faculty development programme in its premises for faculty members of MRIIRS and other Engineering Institutions to teach topics related to TI platform.



**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 been benefitted 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. 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.

## CHAPTER-2

### AUTHORITIES OF THE UNIVERSITY

#### BOARD OF MANAGEMENT

**Ex-Officio Member**

Prof. (Dr.) Sanjay Srivastava

Vice-Chancellor

Chairman

**Pro Vice Chancellor**

Dr. M. K. Soni

Pro Vice Chancellor upto 31.07.2020

Dr. Naresh Grover

Pro Vice Chancellor w.e.f 05.08.2020

Dr. Pardeep Kumar

Pro Vice Chancellor w.e.f 27.11.2020

Dr. G. L. Khanna

Pro Vice Chancellor w.e.f 01.04.2021

**Other Members:**

**Two Deans of Faculties:**

Dr. Arundeeep Singh

Dean - FDS

Dr. H. C. Rai

Dean - FET upto 31.12.2020

Dr. Maithili Ganjoo

Dean - FMeH w.e.f 01.01.2021

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

Dr. D.S.Kumar

Former Professor, PEC, Chandigarh and Director-CITM, FBD

Sh. M.K.Miglani, IAS (Retd)

Former Vice Chancellor upto 26.03.2021 HAU & K.U.K

Dr. Anita Choudhary

IAS (Retd) w.e.f 03.07.2021

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.

Dr. Sunita Virmani

Associate Prof., Dept. of CSE, FET.

**Nominees of the Trust:**

Dr. Amit Bhalla

Dr. M.M. Kathuria

Sh. Atul Kalra

Sh. Navdeep Chawla

**CoE, MRIIRS (Permanent Invitee)**

Sh. N. K. Sharma

**Secretary:**

Sh. R. K. Arora

Registrar, MRIIRS



## ACADEMIC COUNCIL

### Ex-Officio Members:

		Vice- Chancellor	Chairman
1.	Prof. (Dr.) Sanjay Srivastava	Pro Vice Chancellor upto 31.07.2020	
2.	Dr. M.K.Soni	Pro Vice Chancellor w.e.f 05.08.2020	
3.	Dr. Naresh Grover	Pro Vice Chancellor w.e.f 27.11.2020	
4.	Dr. Pardeep Kumar	Pro Vice Chancellor w.e.f 01.04.2021	
5.	Dr. G. L. Khanna	Dean - FET upto 26.11.2020	
6.	Dr. H. C. Rai	Dean - FET w.e.f 27.11.2020	
7.	Dr. Pardeep Kumar	Dean - FAHS upto 31.08.2020	
8.	Dr. Naresh Grover	Dean - FAHS w.e.f 01.09.2020	
9.	Dr. Moattar Raza Rizvi	Dean - FMeH w.e.f 05.06.2020	
10.	Dr. Maithili Ganjoo	Dean - FCBS w.e.f 01.09.2020	
11.	Dr. Monika Goel	Dean - FMS	
12.	Dr. Nandlal Dhamija	ED & Dean - FBSS	
13.	Dr. Chavi B. Sharma	Dean - FAD upto 31.07.2020	
14.	Dr. M. K. Soni	Dean - FCA	
15.	Dr. S. S. Tyagi	Dean - FHM	
16.	Dr. S. K. Saluja	Dean - FDS w.e.f 26.08.2019	
17.	Dr. Arundeeep Singh	HoD, Dept. of Aero, FET	
18.	Air Cmde. Devender Sharma	HoD, Dept. of AUTO, FET	
19.	Dr. Devender Vashisht	HoD, Dept. of Civil, FET upto 17.08.2020	
20.	Dr. Sadiqa Abbas	HoD, Dept. of Civil, FET w.e.f 18.08.2020	
21.	Dr. Sunita Bansal	HoD, Dept. of CSE, FET	
22.	Dr. Supriya P Panda	HoD, Dept. of CSE (IBM), FET upto 17.08.2020	
23.	Dr. Brijesh Kumar	HoD, Dept. of CSE (IBM), FET w.e.f 25.08.2020	
24.	Dr. Tapas Kumar	HoD, Dept. of EEE, FET upto 25.11.2020	
25.	Dr. Anita Khosla	HoD, Dept. of EEE, FET w.e.f 26.11.2020	
26.	Dr. Leena G	HoD, Dept. of ME, FET upto 05.03.2020	
27.	Dr. Manu Srivastava	HoD, Dept. of ME, FET w.e.f 24.04.2020	
28.	Dr. Manoj Nayak	HoD, Dept. of BIO-TECH, FET upto 25.11.2020	
29.	Dr. Manu Solanki	HoD, Dept. of Bio-Tech, FET w.e.f 26.11.2020	
30.	Dr. Sarita Sachdeva	HoD, Dept. of Applied Sciences, FET	
31.	Dr. Jyoti Chawla	HoD, Dept. of ECE, FET	
32.	Dr. Abhiruchi Passi	HoD, Dept. of Earth Sc & Env	
33.	Dr. Arunangshu Mukherjee	HoD, Dept. of Arch & Design	
34.	Prof. Sanjay Kumar Surya	HoD, Dept. of Physiotherapy, FAS upto 31.05.2020	
35.	Dr. Pooja Anand	HoD, Dept. of Physiotherapy, FAS	
36.	Dr. Mottar Raza Rizvi	HoD, Dept. of N&D, FAS	
37.	Dr. Divya Sanghi	HoD, Dept. of Business Studies, FCBS upto 17.08.2020	
38.	Mr. Sushil Kumar Pasricha	HoD, Dept. of Business Studies, FCBS upto 20.01.2021	
39.	Mr. Gautam Srivastava	HoD, Dept. of Business Studies, FCBS w.e.f 21.01.2021	
40.	Dr. Narender Tanwar	HoD, Dept. of Comm. & Hum., FCBS	
41.	Dr. Jayander Verma	HoD, Dept. of Media Studies, FMeH upto 14.11.2020	
42.	Sh. Manoj Raut	HoD, Dept. of Media Studies, FMeH upto 08.03.2021	
43.	Dr. Maithili Gupta	HoD, Dept. of Media Studies, FMeH w.e.f 09.03.2021	
44.	Dr. Aman Vats	HoD, Dept. of English, FMeH	
45.	Dr. Shivani Vashisht		

46.	Dr. Shaveta Bhatia	HoD, Dept. of Computer Application, FCA
47.	Dr. Deepti Dabas Hazarika	HoD, Dept. of Mgmt. Studies, FMS
48.	Dr. K. M.Tripathi	HoD, Dept. of Psy, FBSS upto 20.03.2021 (Vacant)
49.	Dr. Nimai Das	HoD, Dept. of Economics, FBSS upto 31.12.2020
50.	Dr. Anandjit Goswami	HoD, Dept. of Economics, FBSS w.e.f. 01.01.2021
51.	Dr. Anandjit Goswami	HoD, Dept. of Social & Political Studies, FBSS w.e.f 25.04.2020
52.	Ms. Ritika Singh	HoD, Dept. of HM, FMS upto 28.02.2021
53.	Dr. Narender Suhag	HoD, Dept. of HM, FMS w.e.f 01.03.2021

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

54.	Dr. N.K.Chadha	Chairman CDP upto 23.10.2020
55.	Dr. Nandini Srivastava	Director CDP w.e.f 07.01.2021
56.	Dr. Sarita Sachdeva	Dept. of BT upto 25.11.2020
57.	Dr. Rakesh Kumar	Dept. of Business Studies, FCBS w.e.f 07.01.2021
58.	Dr. Amit Seth	Dept. of Business Studies, FMS w.e.f 08.10.2021
59.	Dr. Leena G.	Dept. of EEE, FET upto 25.11.2020
60.	Dr. Anupama Rajput	Dept. of Allied Sc., FET upto 07.01.2021
61.	Dr. Anil Sarin	Dept. of Management, FMS upto 08.09.2020
62.	Dr. Deepak Kumar	Dept. of Math, FET upto 07.01.2021
63.	Dr. Geeta Nijhawan	Dept. of ECE, FET upto 08.10.2021
64.	Dr. Joseph A. Davis	Dept. of CSE, FET upto 30.06.2021
65.	Dr. Rashmi Agarwal	Dept. of CA, FCA upto 29.11.2021
66.	Dr. Devi Singh	Dept. of Applied Sc., FET w.e.f 03.05.2020
67.	Dr. Suresh Kumar	Dept. of CSE, FET, w.e.f 03.05.2020

### **Two Associate Professors from the Departments other than the Heads of the Departments (by rotation of seniority):**

68.	Dr. Anupama Pankaj	Dept. of CA, FCA w.e.f 09.10.2019
69.	Dr. Sarvesh Kumar	Dept. of CSE, FET w.e.f 09.10.2019

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

70.	Mr. Arun Vashista	Dept. of Business Studies, FCBS w.e.f 09.10.2019
71.	Ms. Shweta Sharma	Dept. of CSE, FET w.e.f 09.10.2019

### **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:**

72.	Ms. Anita Chaudhary, IAS (Retd.)	Member
73.	Sh. Anil Chopra, CEO MRVPL upto 31.12.2020	Member
74.	Dr. Pawan Kumar Dahiya, Prof, Dept. of ECE and w.e.f. 01.01.2021 Consultant (Acad.), DCRUST, Murthal	Member
75.	Sh. S.K.Goel, Director Starwire upto 02.02.2020	Member
76.	Prof. Mewa Singh Turan (Retd) w.e.f 03.02.2021 J-52FF, Jemma Block, EMERALD Hill, Gurugram	Member



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

- |     |   |        |
|-----|---|--------|
| 77. | Dr. A. Murli M. Rao, Head Computer Division,<br>IGNOU, New Delhi                            | Member |
| 78. | Dr. Nasib Singh Gill<br>Head of Dept. of Computer Sc & Application<br>MDU, Rohtak           | Member |
| 79. | Dr. Dayal Singh Kumar<br>Former Professor, PEC, Chandigarh<br>and Director-CITM, Faridabad. | Member |

Ex-Officio Secretary:

- |    |                 |                   |
|----|-----------------|-------------------|
| 80 | Sh. R. K. Arora | Registrar, MRIIRS |
|----|-----------------|-------------------|

## PLANNING AND MONITORING BOARD

Ex-Officio Chairman:

- |                       |                         |          |
|-----------------------|-------------------------|----------|
| Dr. Sanjay Srivastava | Vice Chancellor, MRIIRS | Chairman |
|-----------------------|-------------------------|----------|

Seven Internal Members:

- |                            |                                      |
|----------------------------|--------------------------------------|
| Dr. M. K. Soni             | Pro Vice Chancellor upto 31.07.2020  |
| Dr. Naresh Grover          | Pro Vice Chancellor w.e.f 05.08.2020 |
| Dr. H. C. Rai              | Dean - FET upto 23.12.2020           |
| Dr. Pardeep Kumar          | Pro Vice Chancellor w.e.f 24.12.2020 |
| 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                           |
| Dr. Arundeeep Singh        | Dean - FDS w.e.f 22.10.2019          |
| Dr. Maithili Ganjoo        | Dean - FMeH w.e.f 26.08.2020         |
| Dr. Aparna Prashant Goyal  | Dean - FCBS upto 11.01.2020          |
| Dr. Deepti Dabas Hazarika  | Director - FMS w.e.f 31.08.2020      |

Three External Members:

- |                      |   |
|----------------------|---|
| Prof. Sandeep Grover | Prof & HOD, Mech. Engg. (YMCA, University of<br>Science & Technology, Faridabad   |
| Prof. K. Subramanian | IEEE Delhi Section (Past Chair) & Chairman<br>NC. National Execom<br>B-28 Tarang Appt, Plot No 19, IP Extn<br>Patparganj, New Delhi |
| Mr. Vikram Mattoo    | General Manager, Mitsubishi Electric<br>India Pvt Ltd, Gurugram   |

Ex-Officio Secretary:

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

## FINANCE COMMITTEE

### Ex-Officio:

Dr. Sanjay Srivastava	Vice Chancellor, MRIIRS	Chairman
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### Nominee(s) of the Society/Trust:

Dr. M.M. Kathuria

### 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. Rajeev Malhotra	Chief Finance Officer
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 Aeronautical Engineering
2.	Department of Automobile Engineering
3.	Department of Biotechnology
4.	Department of Civil Engineering
5.	Department of Computer Science Engineering
6.	Department of Electronics & Communications Engineering
7.	Department of Electrical & Electronics Engineering
8.	Department of Mechanical Engineering
9.	Department of Applied Science

Programmes					
Name of the Faculty	Programme	Student Intake		Total Admissions	
		UG	PG	UG	PG
Faculty of Engineering and Technology	B.Tech-Aeronautical Engineering	30		05	
	B.Tech-Automobile Engineering	30		07	
	B.Tech-Biotechnology	30		16	
	B.Tech-Civil Engineering	30		11	
	B.Tech-Computer Science Engineering	240		165	
	B.Tech-Computer Science Engineering – Digital Forensics Cyber Security	60		31	
	B.Tech-Computer Science Engineering – Gaming Technology	30		06	
	B.Tech-Electronics & Communication Engineering	60		14	
	B.Tech-Electrical & Electronics Engineering	30		07	
	B.Tech-Mechanical Engineering	60		18	
	B.Sc. (Hons) Geology	05		02	
	M.Sc. Applied Geology		03		01
	M.Tech- Biotechnology		06		03
	M.Tech- Civil Engineering		30		13
	M.Tech-Computer Engineering and Networking		06		02
	M.Tech-Electronics and Communication Engineering		06		02
	M.Tech Automation & Robotics		06		06
	M.Tech-Mechanical Engineering		06		02
	M.Sc.-Biotechnology		12		12

## 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
Sonali Gupta	Assistant Professor	Aeronautical Engineering
Sabiha Parveen	Assistant Professor	Aeronautical Engineering
Vishnu Raj	Assistant Professor	Aeronautical Engineering
Devendra Vashist	Professor	Automobile Engineering
Sunny Bhatia	Assistant Professor	Automobile Engineering
Gurpreet Singh Matharou	Assistant Professor	Automobile Engineering
Nitin Kumar Waghmare	Assistant Professor	Automobile Engineering
Sarita Sachdeva	Professor	Biotechnology
Abhilasha Shourie	Professor	Biotechnology
Joseph Alexanand Davis	Professor	Biotechnology
Manu Solanki	Professor	Biotechnology
Pushpa Tomar	Professor	Biotechnology
Nidhi Didwania	Professor	Biotechnology
Sabiha Imran	Professor	Biotechnology
Krishnamoorthy Kannan	Professor	Biotechnology
Shilpa S. Chapadgaonkar	Associate Professor	Biotechnology
Rashmi Rameshwari	Associate Professor	Biotechnology
Kapila Kumar	Assistant Professor	Biotechnology
Richa Yadav	Assistant Professor	Biotechnology
Jayant Maini	Assistant Professor	Biotechnology
Prachie Sharma	Assistant Professor	Biotechnology
Adhikarla Syama	Assistant Professor	Biotechnology
Sadiqa Abbas	Professor	Civil Engineering
Sunita Bansal	Professor	Civil Engineering
Arunangshu Mukherjee	Professor	Civil Engineering
Anjali Gupta	Professor	Civil Engineering
Gift Pon Lazarus D	Assistant Professor	Civil Engineering
Sneha Rai	Assistant Professor	Civil Engineering
Sonal Bhugra	Assistant Professor	Civil Engineering
Shashi Tiwari	Assistant Professor	Civil Engineering
Probir Mondal	Assistant Professor	Civil Engineering
Haobam Derit Singh	Assistant Professor	Civil Engineering
Rameezut Tauheed	Assistant Professor	Civil Engineering
Aftab Alam	Assistant Professor	Civil Engineering
Pritam Paritosh Paul	Assistant Professor	Civil Engineering
Yaman Hooda	Assistant Professor	Civil Engineering
Charu Virmani	Professor	Computer Science and Engineering



Suresh Kumar	Professor	Computer Science and Engineering
Indu Kashyap	Professor	Computer Science and Engineering
Supriya P. Panda	Professor	Computer Science and Engineering
Brijesh Kumar	Professor	Computer Science and Engineering
Subhajit Ghosh	Professor	Computer Science and Engineering
Tapas Kumar	Professor	Computer Science and Engineering
Meenakshi Moza	Professor	Computer Science and Engineering
Poonam Chahal/Nandal	Professor	Computer Science and Engineering
Kamlesh Sharma	Professor	Computer Science and Engineering
Poonam Tanwar	Professor	Computer Science and Engineering
Rashima Mahajan	Professor	Computer Science and Engineering
Anupama Chadha/Pankaj	Professor	Computer Science and Engineering
Simple Sharma	Associate Professor	Computer Science and Engineering
Krishan Kumar	Associate Professor	Computer Science and Engineering
Meeta Singh	Associate Professor	Computer Science and Engineering
Bindiya Ahuja	Associate Professor	Computer Science and Engineering
Urvashi Chugh	Associate Professor	Computer Science and Engineering
Sunita Virmani	Associate Professor	Computer Science and Engineering
Madhumita Panda/Kathuria	Associate Professor	Computer Science and Engineering
Rachna Behl	Associate Professor	Computer Science and Engineering
Deepa Bura	Associate Professor	Computer Science and Engineering
Rosy Madaan	Associate Professor	Computer Science and Engineering
Seema Verma	Associate Professor	Computer Science and Engineering
Suman Bhatia	Associate Professor	Computer Science and Engineering
Srishty Jindal	Assistant Professor	Computer Science and Engineering
Poonam Katyal	Assistant Professor	Computer Science and Engineering
Shweta Sharma (CSE)	Assistant Professor	Computer Science and Engineering

Pronika Chawla	Assistant Professor	Computer Science and Engineering
Priyanka Grover	Assistant Professor	Computer Science and Engineering
Kritika Soni	Assistant Professor	Computer Science and Engineering
Ranjeeta Mittal	Assistant Professor	Computer Science and Engineering
Mohit Chowdhary	Assistant Professor	Computer Science and Engineering
Monika Garg/Goyal	Assistant Professor	Computer Science and Engineering
Neha Garg	Assistant Professor	Computer Science and Engineering
Arun Kumar	Assistant Professor	Computer Science and Engineering
Tanvi Gupta	Assistant Professor	Computer Science and Engineering
Neha Jain	Assistant Professor	Computer Science and Engineering
Pradeep Sharma	Assistant Professor	Computer Science and Engineering
Amit Chugh	Assistant Professor	Computer Science and Engineering
Shobha Tyagi	Assistant Professor	Computer Science and Engineering
Neha Batra	Assistant Professor	Computer Science and Engineering
Nidhi Garg	Assistant Professor	Computer Science and Engineering
Pinki Sagar	Assistant Professor	Computer Science and Engineering
Shefali Singhal	Assistant Professor	Computer Science and Engineering
Savita	Assistant Professor	Computer Science and Engineering
Shelja Sharma	Assistant Professor	Computer Science and Engineering
Ritika Bateja	Assistant Professor	Computer Science and Engineering
Vandana Batra	Assistant Professor	Computer Science and Engineering
Prashant dixit	Assistant Professor	Computer Science and Engineering
Nitasha Soni	Associate Professor	Computer Science and Engineering
Manisha Vashisht	Assistant Professor	Computer Science and Engineering
Shubhangi Srivastava	Assistant Professor	Computer Science and Engineering
Monika	Assistant Professor	Computer Science and Engineering
Romisha Arora	Assistant Professor	Computer Science and Engineering



Neerja Negi	Assistant Professor	Computer Science and Engineering
Kavita Arora	Assistant Professor	Computer Science and Engineering
Sunita Joshi	Assistant Professor	Computer Science and Engineering
Naresh Grover	Professor	Electronics and Communication Engineering
Geeta Nijhawan	Professor	Electronics and Communication Engineering
Yogendra Kumar Awasthi	Professor	Electronics and Communication Engineering
Abhiruchi Passi	Professor	Electronics and Communication Engineering
Vimlesh Singh	Associate Professor	Electronics and Communication Engineering
Umesh Dutta	Associate Professor	Electronics and Communication Engineering
Shaveta Thakral	Associate Professor	Electronics and Communication Engineering
Pratima Manhas	Associate Professor	Electronics and Communication Engineering
Jyoti Verma	Assistant Professor	Electronics and Communication Engineering
Ila Chaudhary	Assistant Professor	Electronics and Communication Engineering
Gagandeep	Assistant Professor	Electronics and Communication Engineering
Amana	Assistant Professor	Electronics and Communication Engineering
Prerna Kakkar	Assistant Professor	Electronics and Communication Engineering
Leena G	Professor	Electrical and Electronics Engineering
Anita Khosla	Professor	Electrical and Electronics Engineering
Harish C Rai	Professor	Electrical and Electronics Engineering
Ashish Grover	Associate Professor	Electrical and Electronics Engineering
Amarinder Kaur	Assistant Professor	Electrical and Electronics Engineering
Richa Adlakha	Assistant 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
Basanta Kumar Bhuyan	Professor	Mechanical Engineering
Manoj Nayak	Professor	Mechanical Engineering
Abhishek Kumar	Associate Professor	Mechanical Engineering
Joydeep	Associate Professor	Mechanical Engineering
Ram Kishore Sharma	Associate Professor	Mechanical Engineering
Devdutt	Associate Professor	Mechanical Engineering
Vishal	Assistant Professor	Mechanical Engineering
Prateek Mittal	Assistant Professor	Mechanical Engineering
Rajnish Saxena	Assistant Professor	Mechanical Engineering
Rajender Kumar	Assistant Professor	Mechanical Engineering
Seema Mahto	Assistant Professor	Mechanical Engineering
Pankaj Shakkarwal	Assistant Professor	Mechanical Engineering
Bhupender Singh	Assistant Professor	Mechanical Engineering
Jimmy Mehta	Assistant 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
Anubhav Khandelwal	Assistant Professor	Mechanical Engineering
Arun Gaur	Assistant Professor	Mechanical Engineering
Devi Singh	Professor	First Year (AS)- Physics
Pardeep Kumar	Professor	First Year (AS)- Physics
Nisha Bansal	Associate Professor	First Year (AS)- Physics
Sarvesh Kumar	Associate Professor	First Year (AS)- Physics
Kapil Gupta	Assistant Professor	First Year (AS)- Physics
Sandeep Srivastava	Assistant Professor	First Year (AS)- Physics
Vikram Singh	Assistant Professor	First Year (AS)- Physics
Anupama Rajput	Professor	First Year (AS)- Chemistry
Jyoti Chawla	Professor	First Year (AS)- Chemistry
Shagufta Jabin	Professor	First Year (AS)- Chemistry
Mukta Sharma	Associate Professor	First Year (AS)- Chemistry
Kalpna Varshney	Assistant Professor	First Year (AS)- Chemistry
Rajeev Kumar	Assistant Professor	First Year (AS)- Chemistry
Deepak Kumar	Professor	First Year (AS)- Maths
Vijay Kumar	Professor	First Year (AS)- Maths
Pooja Khurana / Sachdeva	Associate Professor	First Year (AS)- Maths
Arti Saxena	Assistant Professor	First Year (AS)- Maths
Neeraj Kumari	Professor	First Year (AS)- H&M
Mithun Khanduja	Assistant Professor	First Year (AS)- H&M
Nitin Jain	Assistant Professor	First Year (AS)- H&M





## 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: 2020-21

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, Devender 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 Numbers	Saurav, Akash & Devender Sharma	Saurav Suman, Akash Maheswari	GEDRAG & ORGANISATION REVIEW - ISSN:0921-5077
Dawn of Electric Powered Aircraft	Pratham Dawar, Akshita Singhand Devender Sharma	Pratham Dawar, Akshita Singh	GIS SCIENCE JOURNAL
A Comprehensive review on blended wing body Aircraft	Satish Chaudhary, Devender Sharma	Satish Chaudhary	Vidyabharati International Interdisciplinary Research Journal
Air Traffic Controllers and Tools	Anish Yadav, Kunal Bhardwaj, Siddhartha Gahlot, Devender Sharma	Anish Yadav, Kunal Bhardwaj, Siddhartha Gahlot	Zeichen Journal



Design and Development of Hypersonic	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)
Design and Fabrication of Serrated Wing	Jitendra Singh, Devender Sharma	Jitendra Singh	International Journal of Engineering Research & Technology (IJERT)
Biodiesel Production from Jatropha curcas Linnaeus: A Review	Manish Awana, Piyush Shori, Saurav Suman, Akash Maheshwari & Devender Sharma	Manish Awana, Piyush Shori, Saurav Suman, Akash Maheshwari	International Journal of Engineering Research & Technology (IJERT)
CHANDRAYAAN-2: India's 2nd Lunar Exploration Mission	Hemant Khatri, Devender Sharma	Hemant Khatri	International Journal of Engineering Research & Technology (IJERT)
A Comprehensive Review of Propellants used in Cryogenic Rocket Engine	Jagriti Verma, Aakash Pratap Singh and Devender Sharma	Jagriti Verma, Aakash Pratap Singh	Vidyabharati International Interdisciplinary Research Journal
A Detailed Study: CFD Analysis of NACA 0012 at varying Angles of Attack	Vani Sadadiwala, Devender Sharma	Vani Sadadiwala	International Journal for Research in Applied Science & Engineering Technology (IJRASET)
Design and Development of a Multi-Application Hexacopter	Satish Chaudhary, Jagriti Verma, Aditya Pratap Singh, Manish Awana, Devender Sharma	Satish Chaudhary, Jagriti Verma, Aditya Pratap Singh, Manish Awana	International Journal for Research in Applied Science & Engineering Technology (IJRASET)
Human Body Monitoring Wearable	Vani Sadadiwala, Kashish Mahindroo, Vimlesh Singh, Priyanka Bansal	Vani Sadadiwala, Kashish Mahindroo	Optical and Wireless Technologies Proceedings of OWT 2020 Volume January 2021 (pp.151-161)

**b. Student progression to higher education in percentage during the year: 2020-21**

Name of students enrolled for higher education	Graduated from which Programme	Name of institution joined	Admitted to (Name of Programme)
Jagariti	Aero	Board of Apprenticeship Training (Southern Region)	NHRG

**c. FDPs attended by faculty members: 2020-21**

Name of the Faculty member	Title of FDP / Workshop / Conference Attended	Duration	
		Date from	Date to
Devender Sharma	ATAL FDP on Immersive Virtual Reality	05-10-2020	09-10-2020
Sonali Gupta	Faculty Development program on Quality Teaching Learning and Mentoring Processes during Pandemic	1-2-2021	5-2-2021



## 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: 2020-21

Title of paper	Name of all the author(s)	Student Authors	Journal/Conference/Book Title
Development of Vehicular Robots with Machine Learning Capability	Himanshu Sengar, Devendra Vashist	Himanshu Sengar	Advances in Interdisciplinary Engineering "Lecture Notes in Mechanical Engineering"

#### b. Students benefited by career counseling and guidance for competitive Examinations: 2020-21

Activity Description	No. of Participants
Classes for GATE Aspirant 2022	13

#### c. Student progression to higher education in percentage during the year: 2020-21

Name of students enrolled for higher education	Graduated from which Programme	Name of institution joined	Admitted to (Name of Programme)
Farhan Mukhtar	Auto	Amity University	M Tech
Saksham Bhatia	Auto	Windsor University, Ontario, Canada	Mech. Engg. Automotive

#### d. Faculty members: Awards & Recognitions:2020-21

Name of Faculty Member	Awards/Recognition
Sunny Bhatia	Paper reviewed titled "improvement the wear behaviour of epoxy resin with boron carbide reinforcement" for Iranian Polymer Journal, Springer Nature Publications
Sunny Bhatia	1. Paper titled "Surface modification of hollow glass microsphere and its marine- adaptive composites with epoxy resin" for High Performance Polymers, SAGE Publications, SAGE Publications (16.08.2020) 2. Paper titled "Effect of size and shape of nanofillers on electrostatic and thermal behavior of epoxy-based composites" for Polymer and Polymer Composites Journal, SAGE Publications (27.10.2020) 3. Paper titled "Multiscale modelling of epoxy-based hybrid nanocomposites considering interphase and resin crosslinking effects" for Polymer and Polymer Composites Journal, SAGE Publications (07.12.2020)
Gurpreet Singh Matharou	Invited Speaker to deliver expert talk during 3rd International Conference on Futuristic Trends in Materials and Manufacturing (ICFTMM-2020), Delhi Technical Campus, Greater Noida. (07.04.2021)
Devendra Vashist	Invited Speaker to deliver Expert Lecture on Combustion of Methanol (Alternative Fuel), Amity University, Noida. (05.04.2021)
Devendra Vashist	Invited Speaker to deliver Expert Lecture on Entrepreneurship opportunities in Automotive Sector (Emerging Automotive Technology)

#### e. FDPs/Workshops/Conferences Attended: 2020-21

Name of the Faculty member	Title of FDP/Workshop/Conference Attended	Date from	Date to
Devendra Vashist	ATAL FDP on Transportation & Automobile Design	21-09-2020	25-09-2020
Devendra Vashist	ATAL FDP on Electric Vehicles	05-10-2020	09-10-2020
Devendra Vashist	ATAL FPD on Energy Storage	22-02-2021	26-02-2021
Devendra Vashist	ATAL FPD on Cutting Edge Technologies in Energy Storage System for E-Mobility	14-06-2021	18-06-2021
Devendra Vashist	STTP on recent advances in EV technologies, series-B	17-05-2021	22-05-2021
Sunny Bhatia	FDP on Refresher course on Application of nanoscience in modern day research and technology	19-06-2020	02-07-2020



Sunny Bhatia	FDP on Materials Processing and Optimization	06-07-2020	10-07-2020
Sunny Bhatia	STC on Cryogenics and Composites: Theory and Applications (CCTA 2020)	03-08-2020	07-08-2020
Sunny Bhatia	ATAL FDP on Mechanics of Composite Materials and Structures	09-09-2020	13-09-2020
Sunny Bhatia	FDP on Ergonomics and Product Design	07-09-2020	11-09-2020
Sunny Bhatia	ATAL FDP on 3D Printing and Design	23-11-2020	27-11-2020
Nitin Kumar Waghmare	FDP on Emerging Green Technology to Mechanical Engineering	03-08-2020	08-08-2020
Nitin Kumar Waghmare	FDP on Green Energy Technologies: Need of future	10-08-2020	14-08-2020
Nitin Kumar Waghmare	FDP on Green Technologies & Environmental Sustainability	07-09-2020	12-09-2020
Nitin Kumar Waghmare	STC on Multi scale Computational fluid Dynamics: Fundamentals & Applications	21-09-2020	25-09-2020
Nitin Kumar Waghmare	STTP on Design, Simulation, development and characterization of composites with advanced techniques	16-11-2020	21-11-2020
Nitin Kumar Waghmare	ATAL FDP on 3D printing and Design	07-12-2020	11-12-2020
Nitin Kumar Waghmare	ATAL FDP on FRP Composite	18-01-2021	22-01-2021
Nitin Kumar Waghmare	ATAL FDP on Nanotechnology Advances in Engineering Materials and Manufacturing	21-06-2021	25-06-2021
Gurpreet Singh Matharou	FDP on Waste Management and its Impact on the Environment	20-07-2020	25-07-2020
Gurpreet Singh Matharou	STTP on Research Scholars Week: Engineering (RSW—2020)	17-09-2020	22-09-2020
Gurpreet Singh Matharou	ATAL FDP on Electric Vehicles	01-09-2020	05-09-2020
Gurpreet Singh Matharou	ATAL FDP on Alternate Fuels	21-09-2020	25-09-2020
Gurpreet Singh Matharou	ATAL FDP ON Productivity Enhancement	14-12-2020	18-12-2020
Gurpreet Singh Matharou	Conference on International debate on examination & Assessment	08-06-2021	11-06-2021
Gurpreet Singh Matharou	FDP on emerging Trends in electromechanical system and renewable energy	10-03-2021	14-03-2021

#### f. Faculty Research Papers: 2020-21

Title of paper	Name of the author(s)	Name of journal	Year of publication
Technical analysis for implementing BS-VI automotive emissions norms with respect to electric vehicle production by 2020 in India	Devendra Vashist, Farhan Mukhtar	International Journal of Electric and Hybrid Vehicles	2021
RSM Modelling and Investigation of hybrid metal matrix composite during EDM operation	Gurpreet Singh Matharou, Basanta Kumar Bhuyan	Wesleyan Journal of Research	2021
Modelling and combined effect analysis of Electric Discharge Machining process using Response Surface Methodology	Gurpreet Singh Matharou, Basanta Kumar Bhuyan	Materials Today: Proceedings	2021
Significant complications declining usage of Electrical Discharge Machining process.	Gurpreet Singh Matharou, Basanta Kumar Bhuyan	IOP Science	2021
Extraction and Characterization of Nano-cellulose Fibrils from Indian Sugarcane Bagasse- an Agro Waste	Nitin Kumar Waghmare, Saba Khan	Journal of Natural Fibers	2021
RSM modelling and Investigation of Hybrid Metal Matrix Composite during EDM operation	Gurpreet Singh Matharou, Basanta Kumar Bhuyan	Wesleyan Journal of Research	2020
Particulate Matter and NOx Reduction Techniques for Internal Combustion Engine: A Review	Devendra Vashist, Manu Bindra	Journal of institution of Engineers Series C	2020
Dry sliding wear characterization of SGM-boron carbide hybrid polymer matrix composite	Sunny Bhatia, Sabah Khan, Surjit Angra	Polymers and Polymer Composites	2020



Parametric optimization of EDM processes for Aluminum hybrid metal matrix composite using GRA-PCA approach.	Curpreet Singh Matharou, Basanta Kumar Bhuyan	International Journal of Mechanical and Production Engineering Research and Development	2020
A review on mechanical and tribological characterization of boron carbide reinforced epoxy composite	Sunny Bhatia, Surjit Angra, Sabah Khan	Advanced Composite Materials	2020
CFD Analysis of Biodiesel Blends and Combustion Using Ansys Fluent	Shivanshu Dixit, Arvind Kumar, Suraj Kumar, Nitin Waghmare, Harish C. Thakur, Sabah Khan	Materials Today: Proceedings - Journal - Elsevier	2020
Two Wheeler Turbocharger: A Review	Curpreet Singh Matharou, Nitin Waghmare	International Journal of Research and Analytical Reviews	2020

#### 9. Books / Chapters Published: 2020-21

Name of the teacher	Title of the book/chapters published	Title of the proceedings of the conference
Devendra Vashist	Development of Vehicular Robots with Machine Learning Capability	Advances in Interdisciplinary Engineering
Devendra Vashist	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	Parametric Analysis of Electric Discharge Machining of Hybrid Composite Materials.	Advances in Engineering Materials
Gurpreet Singh Matharou	Hybrid Metal Matrix Composite Development by Stir Casting and Environmental Concerns	Advances in Engineering Materials
Gurpreet Singh Matharou	Transforming Management Using Artificial Intelligence Techniques - Contemporary Trends in Education Transformation Using Artificial Intelligence (Chapter - 7)	NA
Nitin Kumar Waghmare	Mechanical properties of epoxy hybrid composites reinforced with agave fiber and zinc powder	AIP publishing conference
Sunny Bhatia	A review paper on materials used for manufacturing of alloy wheels	IOP Conference Series: Materials Science and Engineering
Sunny Bhatia	Recent Advancement on Mechanical and Wear Properties of Epoxy Matrix Composite Reinforced with Varying Ratios of Solid Glass Microspheres	Newest Updates in Physical Science Research Vol. 2, 105-113.

### 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 progression to higher education in percentage during the year: 2020-21

Name of student(s) enrolled for higher education	Graduated from which Programme	Name of institution joined	Admitted to (Name of Programme)
Muskan kumar	Bio Tech	Manav Rachna International Institute of Research & Studies	M Tech Bio Tech
Chhavi Jain	Bio Tech	University of Leeds	MSc Food Quality & Innovation
Anjali Kumari	Bio Tech	Guru Gobind Singh Indraprastha University, Delhi	M Tech
Teena Singla	MSc Bio Tech	Jeeven Jyoti College of Education	B Ed
Priyanka Gupta	MSc Bio Tech	Pt. L R College of Education	B Ed



**b. Faculty members: Awards & Recognitions:2020-21**

<b>Name of Faculty Member</b>	<b>Awards/Recognition</b>
Nidhi Didwania	Invited Session Chair for Environ: 702-Ecology held at Porte, Alegre, Brazil. 24.02.2021
Nidhi Didwania	"Women Researcher Award" at International Scientist Awards 2020 on Engineering, Science & Medicine. (26-09-2020)
Nidhi Didwania	Silver + Elite Medal by NPTEL-AICTE FDP Course on "Organic Farming for Sustainable Agricultural Production" by IIT, Kharagpur. (Sep-Nov 2020)
Nidhi Didwania	Entrepreneur Award-2020 (Biofertilizers & Biopesticides) at International Web Conference on Perspective on Agricultural and Applied Sciences in COVID-19 Scenario (PAAS-2020) being jointly organized by the Agricultural & Environmental Technology Development Society (AETDS), U.S. Nagar, Uttarakhand, India; Bangladesh Agricultural Research Institute (BARI), Gazipur, Bangladesh; Soils, Water and Environmental Research Institute (SWERI), Agriculture Research Center, (ARC) Giza, Egypt ; Rajiv Gandhi Central University, Itanagar, Arunachal Pradesh , India ; Shobhit Institute of Engineering & Technology (A NAAC Accredited, Deemed to be University), Meerut, India and Corteva AgriScience during October 4-6 <sup>th</sup> , 2020.
Shilpa S. Chapadgaonkar	Certificate of Appreciation for organizing International Symposium on Advances and Future in 3D Cell culture, in collaboration with Advancells Group.(10th Nov 2020)
Shilpa S. Chapadgaonkar	Gold medal and topper certificate in NPTEL course Functional genomics (Sep-Oct 2020)
Nidhi Didwania	Best Oral Presentation Award for A novel & ecofriendly solution for bull's eye pathogen infecting Lycopersicon esculentum (tomato), Theme: Integrative plant health management at International E-Conference on "Multidisciplinary approaches for plant disease management in achieving sustainability in agriculture" at College of Horticulture, UHS Campus GKVK, Bengaluru, India during October 6-9 <sup>th</sup> , 2020.
Manu Solanki	Elite Certification +Course Topper for NPTEL SWAYAM course on Experimental Biotechnology (Sep 2020)

**c. FDPs attended by Faculty Members:2020-21**

<b>Name of the Faculty member</b>	<b>Title of FDP/Workshop/Conference Attended</b>	<b>Date from</b>	<b>Date to</b>
Manu Solanki	NPTEL Course Experimental Biotechnology	14-09-2020	20-12-2020

Manu Solanki	International Workshop on Biotechnological Advances and Research	22-08-2020	26-08-2020
Manu Solanki	FDP on Waste Technology	12-10-2020	16-10-2020
Abhilasha Shourie	Coursera course on Data Scientists Toolbox	28-09-2020	27-10-2020
Abhilasha Shourie	ATAL FDP on Chromatography: Advancements in Instrumentation and Applications	12-10-2020	16-10-2020
Joseph Alexanand Davis	NPTEL Course Introduction to Developmental Biology	14-09-2020	12-12-2020
Joseph Alexanand Davis	ATAL FDP on Stress Management	21-09-2020	25-09-2020
Joseph Alexanand Davis	FDP on Biosafety, Bioethics and IPR	24-08-2020	28-08-2020
Pushpa Tomar	Faculty Development program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021
Pushpa Tomar	Coursera course Understanding Plants - Part I: What a Plant Knows	01-11-2020	12-12-2020
Rashmi Rameshwari	ATAL FDP on Postharvest and Processing (Food Technology)	02-11-2020	06-11-2020
Rashmi Rameshwari	ATAL FDP on Waste Technology	23-11-2020	27-11-2020
Rashmi Rameshwari	Short term course on Computational tools for analysis of biological systems	02-09-2020	06-09-2020
Rashmi Rameshwari	NPTEL course Functional Genomics	14-09-2020	12-10-2020
Syama Adhikarla	Faculty Development program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021
Nidhi Didwania	ATAL FDP on Environmental Geotechnology	14-09-2020	18-09-2020
Nidhi Didwania	ATAL FDP on Postharvest and Processing (Food Technology)	02-11-2020	06-11-2020
Nidhi Didwania	Coursera course Metagenomics Applied to Surveillance of Pathogens and Antimicrobial Resistance	01-07-2020	16-07-2020



Nidhi Didwania	NPTEL course Organic Farming for Sustainable Agricultural Production	14-09-2020	18-12-2020
Sabiha Imran	ATAL FDP on Rural Entrepreneurship	23-11-2020	27-11-2020
Shilpa S. Chapadgaonkar	FDP on Biosafety, Bioethics and IPR	24-08-2020	28-08-2020
Shilpa S. Chapadgaonkar	FDP on Advanced Excel with data visualization	30-11-2020	06-12-2020
Shilpa S. Chapadgaonkar	ATAL FDP on Biosimilar Technology	23-11-2020	27-11-2020
Shilpa S. Chapadgaonkar	Coursera course Finding hidden messages in DNA	28-08-2020	25-09-2020
Shilpa S. Chapadgaonkar	NPTEL course Experimental Biotechnology	14-09-2020	20-12-2020
Shilpa S. Chapadgaonkar	ATAL FDP on Genome Engineering & Technology	28-09-2020	02-10-2020
Shilpa S. Chapadgaonkar	NPTEL course Functional Genomics	14-09-2020	18-12-2020
Kapila Kumar	Faculty Development program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021
Kapila Kumar	Coursera course: Introduction to systems biology	11-06-2020	17-08-2020

#### d. EVENTS ORGANISED: 2020-21

Title	From	To
International Symposium on Advances and Future in 3D Cell Culture	10-11-2020	10-11-2020

#### e. Faculty Research Papers: 2020-21

Title of paper	Name of the author/s	Name of journal	Year of publication
Mapping Protein Interactions between rabies virus and its Human Host	Kajal Singla, Kartik Jatwani, Abhilash Pandey, Dhvani, Priyanka Chauhan, Mamta Rajbhar, Anjali Singh, Kapila Kumar	International Journal of Pharmaceutical Sciences and Research	2021

Hybridoma technology: Advancements, clinical significance and future aspects	Sanchita Mitra and Pushpa C. Tomar	Journal of Genetic Engineering and Biotechnology	2021
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
The Zn as a Vital Micronutrient in Plants	Vandana Nandal & Manu Solanki	Journal of Microbiology, Biotechnology and Food Sciences	2021
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
Phytochemical Properties and Pharmacological Role of Plants: Secondary Metabolites	Bhupesh Kaushik, Jatin Sharma, Keshav Yadav, Prithik Kumar, Abhilasha Shourie	Biosciences, Biotechnology Research Asia	2021
Diabetic neuropathy: An insight on the transition from synthetic drugs to herbal therapies.	Komal Arora, Pushpa C. Tomar, Vandana Mohan	Journal of Diabetes & Metabolic Disorders. Springer Nature.	2021
Molecular Docking and in silico ADME Studies of Novel Derivative of Erlotinib in Glioma'	Deepika Tripathi and Sabiha Imran	International Journal of Pharmaceutical Sciences and Research	2021
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
Study on the Agaricus bisporus to enhance the Immunity against Covid-19	Srishti Tanwar, Anjali Kumari and *Sabiha Imran	JETIR	2021
Current Status of Rice Crop omics: Applications to Challenges	Simran Jeet Kaur, Shivam Bhardwaj, Rashmi Rameshwari	Int J Pharm Sci	2021



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
In – Silico Visualization of Gene-Gene Interactions in Autism Spectrum Disorder Genes	Abhinav Baruah, Kajal Singla, Shilpa S Chapadgaonkar, Rashmi Rameshwari	Biosciences Biotechnology Research Asia	2021
Biological control of mustard blight caused by Alternaria brassicae using plant growth promoting bacteria.	Surbhi Gupta, Nidhi Didwania and Dinesh Singh	Current Plant Biology	2021
Augmenting the Efficiency of Scaffolding in Medical Therapies with the Advent of Nanotechnology	Pushpa C. Tomar, Tanya Kalra, Harisha Kohli, Komal Arora	Journal of microbiology, Biotechnology and food sciences	2021
Cadaverine: A Potent Modulator of Plants against Abiotic Stresses, Journal of Microbiology, Biotechnology And Food Sciences.	Charu Rajpal, Pushpa C. Tomar	Journal of microbiology, Biotechnology and food sciences	2021
A Comprehensive Light Microscopic Study on Sargassum Tenerrimum, an Alginate Producing Plant (Fuciales, Phaeophyta)	Babita Kumari, Anoop Sharma, Pushpa C. Tomar, Hitesh Solanki	Science Letters	2021
Current Scenario: Covid-19 and Host Innate Immune Response	Sabiha Imran	International Journal of New Innovations in Engineering and Technology	2021
Heavy metal phytoremediation: Potential and Advancement. Vol. 28 (4): 81-93. SCOPUS	Pushpa C. Tomar, Shilpa C. Chapadgaonkar, Varsha Panchal, Arpita Ghosh	Asia Pacific Journal of Molecular Biology and Biotechnology.	2021
Carboxymethyl Guar Gum/Ag Nanocomposite: A promising Antimicrobial agent	Hardik Grover, Tarini Vohra, Syama Adhikarla, Rashmi Rameshwari	Biosc. Biotech. Res. Comm	2021
Status of Zinc in the Soils of Faridabad District	Vandana Nandal & Manu Solanki	Ecology, Environment And Conservation	2021

Isolation screening and molecular characterization of zinc solubilizing bacteria and their effect on the growth of wheat ( <i>Triticum aestivum</i> )	Vandana Nandal & Manu Solanki	Asia Pacific Journal of Molecular Biology and Biotechnology.	2021
Optimization of $\alpha$ -Amylase production from <i>Bacillus amyloliquefaciens</i> using Taguchi method	Pankhuri Sharma and Shilpa Chapadgaonkar	Bioscience Biotechnology Research Asia	2021
A comparative profile of bactericidal action of a partially purified bacteriocin from lactic acid bacteria with antibiotics	Kojagori Laxmi Rani Bonhi and Sabiha Imran	Malaysian Journal of Microbiology	2021
Production of thermo-alkali stable xylanase from <i>Bacillus licheniformis</i> isolated from natural hot water geyser	Girisha Malhotra & Shilpa Chapadgaonkar	Journal of Microscopy and Ultrastructure	2021
Probiotics and management of autism spectrum disorders	Kajal Singla, Abhinob Barual & Shilpa Chapadgaonkar	Journal of microbiology, biotechnology and food sciences	2021
Role of Medicinal plants as green pesticides against <i>Alternaria</i> blight	Surbhi Gupta, Nidhi Didwania	Bulgarian Journal of Agricultural Science	2021
Biological control of mustard blight caused by <i>Alternaria brassicae</i> using plant growth promoting bacteria.	Surbhi Gupta, Nidhi Didwania and Dinesh Singh	Current Plant Biology (Elsevier)	2021
Mapping Protein Interactions between rabies virus and its Human Host	Kajal Singla, Kartik Jatwani, Abhilash Pandey, Dhvani Dhvani, Priyanka Chauhan, Mamta Rajbhar, Anjali Singh, Kapila Kumar	International Journal of Pharmaceutical Sciences and Research	2021
Hybridoma technology; advancements, clinical significance, and future aspects	Sanchita Mitra and Pushpa C. Tomar	Journal of Genetic Engineering and Biotechnology	2021
Phyto-chemical Analysis of various mustard seeds in	Aishwarya, Varishth Khanna, Pushpa C. Tomar, Charu Rajpal	International Journal of Botany Studies.	2021



different solvent extracts.			
The Zn As A Vital Micronutrient In Plants	Vandana Nandal & Manu Solanki	Journal of microbiology, biotechnology and food sciences	2021
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

#### 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: 2020-21

Title of paper	Name of all the author/s	Student Authors	Journal/Conference/Book Title
"Improving the resource utility in construction sector for sustainable development"	Nitin Kumar Garg, Rajat Negi, Sunita Bansal and Rajender Kumar	Nitin Kumar Garg, Rajat Negi	1st international Conference on Construction Materials and Environment
"Review on Thermal Energy Efficiency Using Gypsum Integrated Phase Change Materials in Buildings."	Kavita Vaishnav, Gift Pon Lazarus, Sunita Bansal and Yaman Hooda	Kavita Vaishnav, Gift Pon Lazarus	1st International Conference on Construction Materials and Environment
"Construction Vendor Selection Using Multi-criteria Decision Making: A Review"	Rishabh Pratap Singh, Sadiqa Abbas	Rishabh Pratap Singh	International Journal of Creative Research Thoughts
"Assessment of Safety Practices of Construction Workers using Analytical Hierarchy Process: A Review"	Divyam Singh, Sadiqa Abbas	Divyam Singh	International Journal of Creative Research Thoughts
"Investigation on the strength behaviours of Red Mud based PCM Mortar"	Gift Pon Lazarus, Dr Sunita Bansal	Gift Pon Lazarus	IIOAB
"Urban, Water and Sustainable Environment Approaches"	Vijay Dahiya, Sadiqa Abbas	Vijay Dahiya	International Journal of Advanced Science and Technology



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

Activity Description	No. of Participants
Civil Engineering: Job, Career and Future Prospects	21
Webinar on Strategy to Crack GATE, ESE & Other Competitive Exams	26
An online introductory session on "Getting started with ETABS- Structural Analysis and Design of Buildings Software"	40
Webinar on 'World of Concrete'	40

**c. Student progression to higher education in percentage during the year: 2020-21**

Name of students enrolled for higher education	Graduated from which Programme	Name of institution joined	Admitted to (Name of Programme)
Ankit Singh	Civil	Jaipuria Institute of Management	Post Graduate Diploma in Management
Ravisha Malik	Civil	Fortune Institute of International Business, Delhi	Post Graduate Diploma-Operations Management
Suhail	Civil	Manav Rachna International Institute of Research & Studies	M.Tech-Civil Engineering
Kapil Vashisht	Civil	IIMT-Greater Noida	MBA

**d. Faculty members: Awards & Recognitions: 2020-21:**

Name of Faculty Member	Awards/Recognition
Sadiqa Abbas	PhD Thesis Viva-Voce Examiner, Department of Civil Engineering, Faculty of Engineering & Technology, Jamia Millia Islamia, New Delhi (22.12.2020)
Sadiqa Abbas	PhD Thesis Reviewer, Department of Civil Engineering, Faculty of Engineering & Technology, Jamia Millia Islamia, New Delhi (08.09.2020)

Anjali Gupta	Invited Reviewer for International Conference, ICMAI-2021, 26.02.2021
Shashi Tiwari	Received Young Researcher Award-2021 by Institute of Scholars (INSC). 01.02.2021
Yaman Hooda	Received Young Researcher Award 2021 by Institute of Scholars (INSC). 12.05.2021

**e. FDPs attended by Faculty Members: 2020-21:**

<b>Name of Faculty Member</b>	<b>Title</b>	<b>Date from</b>	<b>Date to</b>
Anjali Gupta	FDP on Technology Startup and IPR	15-03-2021	17-03-2021
Anjali Gupta	Online FDP on "Environmental Geotechnology"	14-09-2020	18-09-2020
Probir Mandal	Faculty Development program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021
Sunita Bansal	Faculty Development program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021
Sadiqa Abbas	Online Faculty Development Program on the theme "Policy Initiative And Quality Enhancement In Higher Education"	05-05-2021	11-05-2021
Sadiqa Abbas	Online FDP on "Sustainability Engineering"	04-01-2021	08-01-2021
Sadiqa Abbas	ATAL FDP on Waste Technology	26-10-2020	30-10-2020
Sadiqa Abbas	STC on Construction Materials and Methods in Civil Engineering	25-08-2020	29-08-2020
Sadiqa Abbas	ATAL FDP on Smart Cities	12-10-2021	16-10-2021
Sadiqa Abbas	International Workshop on Effective Research Paper Writing & Publishing Aspects	06-07-2020	17-07-2020
Shashi Tiwari	Online FDP on advances in renewable energy technology	06-04-2021	12-04-2021
Yaman Hooda	Online Faculty Development Program on "Ethics and Values in Technical Education in Context of National Education Policy-2020"	15-04-2021	19-04-2021
Yaman Hooda	Faculty Development Programme on Green Energy Sources and Clean Technologies	07-06-2021	11-06-2021



Yaman Hooda	Faculty Development Programme on Innovation in Design Construction and Rehabilitation of Bridges	03-05-2021	07-05-2021
Sonal Bhugra	STC on Construction Materials and Methods in Civil Engineering	25-08-2020	29-08-2020
Sonal Bhugra	STC on Emerging Technologies in Transportation Engg. For Sustainable Development	17-08-2020	22-08-2020
Sonal Bhugra	ATAL FDP on Waste Technology	21-09-2020	25-09-2020
Arunangshu Mukherjee	ATAL FDP on Smart city	19-10-2020	23-10-2020
Arunangshu Mukherjee	ATAL FDP on Photography	12-10-2021	16-10-2021
Pritam Paritosh Paul	Coursera Online certification-The Dynamic Earth: A Course for Educators	05-07-2020	04-08-2020
Pritam Paritosh Paul	Tier II Training Course on Sustainable Development & Management of Ground Water Resources	14-09-2020	16-09-2020
Pritam Paritosh Paul	Effective Research Paper Writing & Publishing Aspects	06-07-2020	17-07-2020
Pritam Paritosh Paul	ATAL FDP on GIS and Remote Sensing	12-10-2020	16-10-2020

#### g. Events Organised: 2020-21:

Title	From Date	To Date
International Workshop on 'Research Paper Writing and Publishing Aspects'	06-07-2020	17-07-2020
Workshop on Traffic Simulation Modelling using PTV VISSIM	12-12-2020	12-12-2020

#### h. Research Papers: 2020-21

Title of paper	Name of the author/s	Name of Journal	Year of publications
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
Micro Simulation Modelling of an Urban Corridor in PTV Vissim	Swati Goyal, Sonal Bhugra	International Journal of creative research thoughts (IJCRT)	2021

#### i. Books / Chapters Published: 2020-21

Name of the Author	Title of the book / chapters published	Title of the proceedings of the conference/
Yaman Hooda, Sunita Bansal, Anjali Gupta	Parametric Strength of Sustainable Concrete using Fly Ash, GGBS and Recycled Aggregates as per Taguchi's Approach	Advances in Construction Materials and Sustainable Environment (Lecture Notes in Civil Engineering)
Kavita Vaishnav, Gift Pon Lazarus, Sunita Bansal, Yaman Hooda	Review on Thermal Energy Efficiency using Gypsum Integrated Phase Change Materials in Buildings	Advances in Construction Materials and Sustainable Environment (Lecture Notes in Civil Engineering)
Nishita Ojha, Rama Karn, Sadiqa Abbas, Sonal Bhugra	Bioremediation of Industrial Waste water: A Review	Community-based Research and Innovations in Civil Engineering, 2021
Rama Karn, Nishita Ojha, Sadiqa Abbas, Sonal Bhugra	A review on heavy metal contamination at mining sites and remedial techniques	Community-based Research and Innovations in Civil Engineering, 2022
Sonal Saluja, Arun Gaur, Sadiqa Abbas	Assessment of Pavement Surface Quality using TOPSIS Method	Community-based Research and Innovations in Civil Engineering, 2022
Nitin Kumar Garg, Rajat Negi, Sunita Bansal, Rajender Kumar	Improving the resource utility in construction sector for sustainable development	2 <sup>nd</sup> International Conference on "Computational and Experimental Methods in Mechanical Engineering"



## 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: 2020-21

Title of paper	Name of all the author/s	Student Authors	Journal/Conference/Book Title
Artificial Neural Network on Graphical Unit and Its Emphasis on Ground Water Level Prediction	Neeru Singh, Supriya P. Panda	Neeru Singh	Int. J. of Computer Networks and Applications (IJCNA)
Cloud Security Challenges and Issues	Poonam Kumari, Meeta Singh	Poonam Kumari	Int. J. of Computer Networks and Applications (IJCNA)

#### b. Students benefited by career counseling and guidance for competitive Examinations: 2020-21

Activity Description	No. of Participants
Technical classes by Department of Computer Science & Engineering	80
Career option in Digital Banking	25

#### c. Student progression to higher education in percentage during the year: 2020-21

Name of students enrolled for higher education	Graduated from which Programme	Name of institution joined	Admitted to (Name of Programme)

Saurabh Shandila	CSE	National Institute of Technology Rourkela	M Tech
Mayank	CSE	New Delhi Institute of Management	Post Graduate Diploma in Management
Mukund Saroch	CSE	Great Lakes	PG in Data Science
Divyansh Dixit	CSE	Carl von Ossietzky Universität	M Tech
Chitrangad Singh Tomar	CSE	Manav Rachna International Institute of Research & Studies	M Tech
Dipesh Gupta	CSE	University of Southern Queensland (USQ) Australia	Master of Information Systems
Lavi Sharma	CSE	Fleming College	Project Management (PMG)
Mohit Yadav	CSE	Netaji Subhas University of Technology	MBA
Prerna Thanua	CSE	Indira Gandhi Delhi Technical University For Women	M Tech
Rushil Laul	CSE	Thapar university	Master of Engineering
Eva Thakran	CSE	Indira Gandhi Delhi Technical University For Women	Master of Technology in IT

#### d. Faculty members: Awards & Recognitions: 2020-21

Name of Faculty Member	Awards/Recognition
Brijesh Kumar	Membership Certificate, The institution of Engineers (India), 19th Nov 2020
Brijesh Kumar	Invited Speaker at Webinar on World's Standard day, organized by The institution of Engineers (India) on 14 <sup>th</sup> Oct 2020
Poonam Tanwar	Global Eminent Researcher Award, Vij , Academy, Trivandram. (19.02.2021)
Poonam Tanwar	Invited Session Chair for session on Data Science during 5 <sup>th</sup> international conference on Advances in Computing and Data Science, Thakree College of Engineering, Nasik. (23.04.2021-24.04.2021)
Poonam Tanwar	Invited Session Chair for session on Smart learning during 2nd international conference on Smart and Intelligent learning for information optimization, JAYPEE University, Guna. (24.10. 2020 - 25.10.2020)
Poonam Tanwar	Associate Editor for International Journal of Research on Natural Language Computing (IJRNLC) of Bohr Publishers, USA, UK, India. (since March 2021)
Indu Kashyap	Invited Guest Speaker to deliver session on "Data Visualization with Tableau" at Maharaja Surajmal Institute, IP University. (29.06.2021)
Rosy Madaan	Top 10 Professors of the year, GTEA 2020. (27.12.2020)



Rosy Madaan	Invited Reviewer in International Journal of information Retrieval Research, 24.11.2020
Rashima Mahajan	Invited speaker to deliver a session on 'Industry 4.0 and Industrial IoT' – 24th Oct 2020 during a AICTE sponsored STTP on 'Integrative Internet of Things and Deep Learning for Smart Healthcare' (19th Oct -24th Oct 2020) organized by Dept of ECE, KPR Institute of Engg and Technology, Coimbatore.
Indu Kashyap	Invited Resource person in STTP on Computer Forensic and cyber Crime" at JSS Academy of Technical Eductaion, Noida 23.11.2020 to 28.11.2020

**e. FDPs attended by Faculty Members: 2020-21**

<b>Name of Faculty Member</b>	<b>Title</b>	<b>Date from</b>	<b>Date to</b>
Brijesh Kumar	Faculty Development program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021
Arun Kumar	Online course on Mind Control organized by University of TORONTO, Coursera	21-06-2020	14-07-2020
Amit Chugh	FDP on Machine Learning	12-10-2020	17-10-2020
Amit Chugh	FDP on Information and Cyber Security	14-06-2021	18-06-2021
Charu Virmani	FDP on Interdisciplinary Research: Need and Relevance in Science and Technology	01-09-2020	05-09-2020
Charu Virmani	FDP on Android Development with kotlin	14-09-2020	19-09-2020
Nitasha Soni	STTP by AICTE on Artifical Intelligence & Machine Learning	12-10-2020	17-10-2020
Nitasha Soni	Java Programming	11-02-2021	13-02-2021
Deepa Bura	FDP on Artificial Intelligence	26-09-2020	30-09-2020
Meeta Singh	STTP on Artifical intelligence & Machine Learning	24-08-2020	29-08-2020
Meeta Singh	STTP on Industrial automation	17-08-2020	22-08-2020
Poonam Nandal	STTP on Industrial automation	17-08-2020	22-08-2020
Poonam Nandal	STTP on Artifical intelligence & Machine Learning	24-08-2020	29-08-2020
Poonam Nandal	Quantum Artificial Intelligence	24-05-2021	28-06-2021

Poonam Nandal	Data Science for Health Care	21-06-2021	25-06-2021
Poonam Tanwar	STTP on Artificial intelligence & Machine Learning	24-08-2020	29-08-2020
Poonam Tanwar	FDP on Emotional Intelligence	19-10-2020	23-10-2020
Poonam Tanwar	ATAL FDP on Artificial intelligence	21-09-2021	25-09-2021
Poonam Tanwar	STTP on Recent Advancement in Artificial Intelligence & Machine Learning	22-03-2021	27-03-2021
Rosy Madaan	FDP on Data Analytics using R	11-07-2020	15-07-2020
Rosy Madaan	ATAL FDP on Emotional intelligence	19-10-2020	23-10-2020
Rosy Madaan	STTP on Recent Advancement in Artificial Intelligence & Machine Learning	22-03-2021	27-03-2021
Rosy Madaan	Atal- FDP on Artificial Intelligence in Contemporary Biomedical & Healthcare Applications: Fundamentals & Hands on Matlab	21-06-2021	21-06-2021
Savita	ATAL- FDP on FDP on "Internet of Things (IoT)"	30-11-2020	04-12-2020
Savita	ATAL-FDP Online FDP on "Internet of Things (IoT)"	07-12-2020	11-12-2020
Savita	ATAL-FDP Online FDP on "Internet of Things (IoT)"	20-12-2020	25-12-2020
Savita	ATAL-FDP on IOT in 5G Technology	24-05-2021	28-05-2021
Indu Kashyap	Certificate Course on Digital Teaching Techniques	29-06-2020	04-07-2020
Indu Kashyap	ATAL FDP on Data Sciences	16-09-2020	20-09-2020
Indu Kashyap	STTP on Artificial intelligence & Machine Learning	24-08-2020	29-08-2020
Indu Kashyap	FDP on Data Science	22-02-2021	26-02-2021
Indu Kashyap	FDP on Data Sciences	16-09-2020	20-09-2020
Indu Kashyap	Big Data Computing	01-09-2020	20-11-2020
Indu kashyap	FDP on Data Sciences	31-05-2021	04-06-2021
Kamlesh Sharma	NPTEL Course on Data Science for Engineers	01-07-2020	30-09-2020
Kamlesh Sharma	Faculty Entrepreneurship Development Program	15-03-2021	04-06-2021



Kamlesh Sharma	Python 3.4.3	21-06-2021	27-06-2021
Kamlesh Sharma	Scilab	21-06-2021	27-06-2021
Kamlesh Sharma	Geospatial Technology for Archaeological Studies	17-05-2021	21-05-2021
Madhumita Kathuria	STTP on Artificial intelligence & Machine Learning	24-08-2020	29-08-2020
Madhumita Kathuria	STTP on Recent Advancement in Artificial intelligence and machine learning	22-03-2021	27-03-2021
Madhumita Kathuria	STTP on Recent Advancement and Trends in ML: Theory and Application	11-01-2021	16-01-2021
Madhumita Kathuria	STTP on Developing cybersecurity models using statistics and deep learning	22-02-2021	27-02-2021
Neha Batra	Block chain Thrust Areas	19-10-2020	23-10-2020
Neha Batra	DP Database Programming with SQL Final Exam	26-04-2021	30-04-2021
Neha Garg	ATAL FDP on Data Sciences	21-09-2020	25-09-2020
Tapas Kumar	Faculty Development program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021
Prashant Dixit	Faculty Development program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021
Mohit Chowdhary	Faculty Development program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021
Ranjeeta Mittal	Faculty Development program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021
Kritika Soni	Faculty Development program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021
Neha Jain	Faculty Development program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021
Krishan Kumar	Faculty Development program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021
Rachna Behl	Faculty Development program on Quality Teaching Learning and	01-02-2021	05-02-2021

	Mentoring Processes during Pandemic		
Rachna Behl	NPTEL Introduction to Machine Learning	01-07-2019	30-09-2020
Pronika Chawla	Workshop on "Cloud Computing & its applications"	14-09-2020	20-09-2020
Pronika Chawla	ATAL FDP on Cloud Technology	26-10-2020	30-10-2020
Pronika Chawla	STTP on Entrepreneurship: A way of thinking	28-09-2020	02-10-2020
Pronika Chawla	FDP on Cloud Computing	10-05-2021	15-05-2021
Pronika Chawla	FDP on Cyber Security	03-05-2021	08-05-2021
Pronika Chawla	ATAL-FDP on Cyber Security	07-09-2020	11-09-2020
Pronika Chawla	FDP on MACHINE LEARNING	22-02-2020	26-02-2020
Pronika Chawla	Lecture series on Cyber Security & IAM Domains -Inroads Path Towards It	02-09-2020	04-09-2020
Pronika Chawla	STTP on New Dimensions in Research Support Services	15-03-2020	20-03-2020
Rashima Mahajan	FDP on Data Science for IoT	09-10-2021	13-10-2021
Rashima Mahajan	FDP on Telemedicine and Digital Healthcare: Opportunities & Threats	17-05-2021	21-05-2021
Rashima Mahajan	FDP on Leadership Excellence	05-06-2021	09-06-2021
Shefali Singhal	STTP on Machine Learning	12-10-2020	17-10-2020
Shefali Singhal	Quantum Artificial Intelligence	24-05-2021	28-05-2021
Shweta Sharma	STTP on Internet of Things (IoT) for Emerging Engineering Applications	07-09-2020	09-12-2020
Shweta Sharma	STTP on Machine learning and Deep Learning: Research and Applications Perspectives	14-09-2020	19-09-2020
Shweta Sharma	FDP on Artificial Intelligence	21-09-2020	25-09-2020
Tanvi Gupta	ATAL FDP on Cloud Technology	25-10-2020	30-10-2020
Tanvi Gupta	FDP on Data Science for IOT	09-10-2020	13-10-2020
Urvashi Chugh	Information and Cyber Security	14-06-2021	18-06-2021
Vandna Batra	STTP on Artificial intelligence & Machine Learning	24-08-2020	29-08-2020



Vandna Batra	ATAL FDP on Data Science	16-09-2020	20-09-2020
Vandna Batra	Workshop on Machine Learning for Data Science and Analytics	20-10-2020	24-10-2020
Vandna Batra	Workshop on Machine Learning and Data Analytics Bootcamp	07-09-2020	12-09-2020
Shelja Sharma	STTP on Artificial intelligence & Machine Learning	24-08-2020	29-08-2020
Shelja Sharma	ATAL Workshop on Quantum Computing	05-10-2020	09-10-2020
Shelja Sharma	ATAL FDP on Cloud Computing	07-09-2020	11-09-2020
Shelja Sharma	STTP on Artificial intelligence & Machine Learning	24-08-2020	29-08-2020
Sunita Virmani	ATAL FDP on Cyber Security	23-11-2020	27-11-2020
Monika Garg	FDP on Recent Trends in Computer Science and IT	13-07-2020	17-07-2020
Monika Garg	Workshop on Cloud Computing and its applications	14-09-2020	20-09-2020
Monika Garg	STTP on Image processing and its applications	21-09-2020	26-09-2020
Monika Garg	FDP on Internet of Things	14-09-2020	18-09-2020
Monika Garg	Lecture series on Cyber Security and IAM domain- Inroads path towards it	02-09-2020	04-09-2020
Monika Garg	Workshop on Machine Learning and Data Analytics Bootcamp	07-09-2020	12-09-2020
Pinki Sagar	STTP on Artificial intelligence & Machine Learning	24-08-2020	29-08-2020
Pinki Sagar	ATAL FDP on Internet of Things (IoT)	12-10-2020	16-10-2020
Pinki Sagar	ATAL FDP on Internet of Things (IoT)	05-10-2020	09-10-2020
Pinki Sagar	STTP on Machine Learning	12-10-2020	17-10-2020
Pinki Sagar	STTP on Recent Trends in Industrial Automation	17-08-2020	22-08-2020
Ritika Bateja	ATAL FDP on Quantum Computing	05-10-2020	09-10-2020
Ritika Bateja	FDP ON Universal Human Values	28-09-2020	02-10-2020
Ritika Bateja	STTP on Series-I Machine Learning	23-11-2020	28-11-2020
Shobha Tyagi	ATAL FDP on Augmented Reality (AR)/ Virtual Reality (VR)	07-09-2020	11-09-2020
ShobhaTyagi	ATAL FDP on Block Chain	21-09-2020	25-09-2020

Supriya P. Panda	Online course on Intro to ML concepts	30-06-2020	30-08-2020
Supriya P. Panda	STTP on Artificial intelligence & Machine Learning	28-09-2020	03-10-2020
Supriya P. Panda	Quantum computing and AI	24-05-2021	29-05-2021
Suresh Kumar	ATAL FDP on Design Thinking	21-09-2020	25-09-2020
Simple Sharma	STTP on Series-I Machine Learning	23-11-2020	28-11-2020
Simple Sharma	STTP on Series-I Machine Learning	14-12-2020	19-12-2020
Manisha Vashisht	STTP on Series-I Machine Learning	23-11-2020	28-11-2020
Manisha Vashisht	Workshop on Machine Learning and Data Analytics Bootcamp	07-09-2020	12-09-2020
Manisha Vashisht	STTP -AQIS on Image processing and its application	21-09-2020	26-09-2020
Seema Verma	Blockchain: Foundations and Use Cases	18-06-2020	23-07-2020
Seema Verma	Programming for Everybody (Getting Started with Python)	19-08-2020	14-09-2020
Seema Verma	ATAL FDP on Data Sciences	21-09-2020	25-09-2020
Seema Verma	ATAL FDP on Internet of Things (IOT)	02-11-2020	06-11-2020
Seema Verma	NPTEL- Online certification - ELITE on Python for Data Science	10-09-2020	12-10-2020
Nidhi Garg	International Research Orientation Programme.	26-10-2020	31-10-2020
Nidhi Garg	FDP on Artificial Intelligence & Machine Learning using Python	31.08.2020	04.09.2020
Nidhi Garg	Big Data Analytics with Deep Learning	18.08.2020	22.08.2020
Nidhi Garg	FDP on Machine Learning	12-10-2020	17-10-2020
Nidhi Garg	Workshop on Machine Learning and Data Analytics Bootcamp	07-09-2020	01-09-2020
Nidhi Garg	STTP on Machine learning and Deep Learning: Research and Applications Perspectives	14-09-2020	19-09-2020
Nidhi Garg	STTP on Artificial intelligence & Machine Learning	24.08.2020	29.08.2020
Priyanka Grover	ATAL FDP on Neural Network & Deep Learning	23-11-2020	27-11-2020
Poonam Katyal	Workshop on Machine Learning and Data Analytics Bootcamp	07-09-2020	12-09-2020
Subhajit Ghosh	ATAL FDP on Artificial Intelligence	26-09-2020	30-09-2020



Subhajit Ghosh	Webinar series on Emerging Trends in Computer Engineering	20-07-2020	26-07-2020
Subhajit Ghosh	International Symposium on Data Science	14-07-2020	18-07-2020
Subhajit Ghosh	ATAL FDP on Data Sciences	09-10-2020	13-10-2020
Bindiya Ahuja	FDP on Entrepreneurship	05-10-2020	17-10-2020
Nitasha Soni	Mooc Course on Digital Skills: Mobile, Accenture, Future Learn- (2 week course)	18-11-2020	18-11-2020
Ritika Bateja	ATAL FDP on Quantum Computing	05-10-2020	09-10-2020

#### f. Events Organized: 2020-21

Title	Date From	Date To
Workshop on MATLAB	27-07-2020	27-07-2020
One week Online short term training program on Artificial Intelligence and Machine Learning (Series-1)	24-08-2020	29-08-2020
One Week Online Workshop "Machine Learning and Data Analytics Bootcamp	07-09-2020	12-09-2020
Online one week short term training program on Artificial Intelligence and Machine Learning (Series-2)	28-09-2020	03-10-2020
One Week Online STTP on Machine Learning Sponsored by AICTE (Series-1)	12-10-2020	17-10-2020
One Week Online STTP on Machine Learning Sponsored by AICTE (Series-2)	23-11-2020	28-11-2020
One Week Online STTP on Machine Learning Sponsored by AICTE (Series-3)	14-12-2020	19-12-2020

#### g. Faculty Research Publication: 2020-21

Title of paper	Name of the author/s	Name of journal	Year of publication
Automated Emotion State Classification using Higher Order Spectra and Interval Features of EEG	Rashima Mahajan	International Journal of Biomedical Engineering and Technology (IJBT)	2020
Performance Analysis of Hybrid Protocol under	Ashu Gautam, Rashima Mahajan	Recent Advances in Computer	2020

Distributed Denial of Service Attack in Remote Healthcare Systems	and Sherin Zafar	Science and Communications, Bentham Science	
Big Data Analytics for MANET based Sustainable Smart Healthcare Solution	Ashu Gautam, Rashima Mahajan and Sherin Zafar	Recent Advances in Computer Science and Communications, Bentham Science	2020
Effective Implementation of Machine Learning Algorithms using 3d Colour Texture Feature for Traffic Sign Detection for Smart Cities	Manisha Vashisht, Brijesh Kumar	Expert Systems	2021
Identification of Spectrum Holes using Energy Detector based Spectrum Sensing	Chaudhary Neha, Mahajan Rashima	Int. Journal of Information Technology, (Singapore) Springer	2021
A Prediction Model for Benefitting E-Commerce through usage of Regional Data: A New Framework.	Shefali Singhal, Poonam Tanwar	IAES International Journal of Artificial Intelligence (IJ-AI)	2021
An Anlysis of COVID-19 cases in G-20 countries and History of previous pandemics	Monika Garg, Nidhi Garg, Nishit Handa	International Journal of Preventive Medicine and Health	2021
Analysis of Different Load Balancing Algorithms in Cloud Computing	Poonam Nandal, Deepa Bura, Meeta Singh, Sudeep Kumar	International Journal of Cloud Applications and Computing	2021
Enhancing Behavioral Dependency for Effective Computing in Software	Deepa Bura, Amit Choudhary	International Journal of System Dynamics Applications (IJSDA)	2021
A Novel Prediction Algorithm for Multivariate Data Sets	Pinki Sagar	Decision Making: Applications in Management and Engineering	2021



#### h. Book Chapters: 2020-21

Name of the Author	Title of the book/chapters published	Title of the Paper	Title of the Proceedings of the Conference /
Dr. Supriya P. Panda	NA	Feature Selection or Email Phishing Detection Using Machine Learning (Book Chapter)	International Conference on Innovative Computing and Communications
Radhika, Rashima Mahajan	Lecture Notes in Networks and Systems, Springer	Medical Image Enhancement: A Review (Published as Book Chapter) SCOPUS	International Conference on Data Science and Applications (ICDSA 2021)
Neha, Rashima Mahajan	Lecture Notes in Electrical Engineering, Springer	Spectrum Sensing Techniques in Cognitive Radio Networks: Challenges and Future Direction	5 <sup>th</sup> International Conference on Microelectronics, Computing & Communication Systems (MCCS-2020), Ranchi
Ashu Gautam, Rashima Mahajan and Sherin Zafar	Lecture Notes in Networks and Systems, Springer	Investigation of DDoS Attacks Influence on Steering Data in Mobile E-healthcare Sector	NA
Ashu Gautam, Rashima Mahajan and Sherin Zafar	Cognitive Internet of Medical Things for Smart Healthcare. Studies in Systems, Decision and Control, Springer	QoS Optimization in Internet of Medical Things for Sustainable Management	NA
Ms. Shobha Tyagi and Dr. Madhumita Kathuria	NA	Study on Blockchain Scalability Solutions	Thirteenth International Conference on Contemporary Computing (IC3-2021)
Dr. Poonam Tanwar	Computational Intelligence & Predictive Analysis for medical Science.	NA	NA
Poonam Nandal, Deepa Bura, Meeta Singh	Emerging Trends of Big Data in Cloud Computing	NA	Applications of Big Data in Large- and Small-Scale Systems
Deepa Bura, Amit Choudhary	Enhancing Information Retrieval System Using Change-Prone Classes	NA	Research Anthology on Usage and Development of Open Source Software

Akash Verma, Mugdha, Dr. Poonam Tanwar	NA	Intelligent Embedded Image Caption Generator	International Conference on Communications and Electronics System
Mehar Mutreja, Kunal Khandelwal, Hriday Dham and Pronika Chawla	NA	Perception of IOT: Application and Challenges	6 <sup>th</sup> International Conference on Communication and Electronics Systems (ICCES)
Neha Batra, Dr. Sachin Lakra	NA	Impact of Fractal Musical Signals on the Human Brain: A Proposed EEG Study	Proceeding of International Conference on Communications and Electronics System
Dr. Poonam Tanwar	Computational Intelligence & Predictive Analysis for medical Science	NA	NA
Poonam Nandal, Deepa Bura, Meeta Singh	Applications of Big Data in Large- and Small-Scale Systems	Emerging Trends of Big Data in Cloud Computing	NA
Manisha Vashisht, Dr. Brijesh Kumar	NA	Implementation of Artificial Neural Network for Image Recognition using Chinese Traffic Sign Image Dataset	ICNGIoT-2021
Sonakshi, Dr Seema Verma	NA	A Blockchain-based Secure Car Hiring System	ICCSDf - 2021
Ritika Bateja, Sanjay Kumar Dubey, Ashutosh Bhatt	NA	Evaluation and Application of Clustering Algorithms in Healthcare Domain Using Cloud Services	ICTSCI - 2021
Avinash Pranay, Rakesh Goud, Dr. Poonam Tanwar, Ms. Shweta	NA	A Survey on Security Challenges of Virtualization in Cloud Computing"	5 <sup>th</sup> International Conference on Trends in Electronics and Informatics (ICOEI 2021)
Gourisha Goel, Dr. Poonam Tanwar, Ms. Shweta Sharma	NA	"Security Issues with Virtualization in Cloud Computing"	5 <sup>th</sup> International Conference on Trends in Electronics and Informatics (ICOEI 2021)



Pronika, S.S.Tyagi	NA	Secure Data Storage in Cloud Using Encryption Algorithm	ICICV, 2021
Vaibhav Shakya; PVGN Pavan Kumar; Lakshay Tewari; Pronika	NA	Blockchain based Cryptocurrency Scope in India	5th International Conference on Intelligent Computing and Control Systems (ICICCS)
Simran Mehta; Anshul Sharma; Pronika Chawla; Kritika Soni	NA	The Urgency of Cyber Security in Secure Networks	5th International Conference on Intelligent Computing and Control Systems (ICICCS)
Kushagra Jha; Sitara Anumotu; Pronika; Kritika Soni	NA	Security Issues and Architecture of IOT	International Conference on Artificial Intelligence and Smart Systems (ICAIS)
Akanksha Verma; Ragasree Surendra; B. Srikanth Reddy; Pronika Chawla; Kritika Soni	NA	Cyber Security in Digital Sector	International Conference on Artificial Intelligence and Smart Systems (ICAIS)
Inshita Bamba; Yashika; Jahanvi Singh; Pronika Chawla; Kritika Soni	NA	Big Social Data and Modelling Frameworks	International Conference on Artificial Intelligence and Smart Systems (ICAIS)
D. Sai Pranav; Devansh Punj; Tushar Dubey; Pronika Chawla	NA	Data Mining in Cloud Computing	5th International Conference on Computing Methodologies and Communication (ICCMC)
Amit Balhara, Sunil Ubba, Yugal Sharma, Pronika Chawla	NA	Exploring and Analyzing Dark Web	International Conference of Data Analytics & Management (ICDAM- 2021)
Sonakshi, Seema Verma	NA	A Blockchain- based Secure Car Hiring System	ICCSDf - 2021
Anshu & Poonam Tanwar	NA	Deep Learning technique for detection of Autism Spectrum	International Conference of Data Analytics & Management (ICDAM- 2021)

Kamlesh Sharma	Review of Data Mining Techniques Used in Healthcare	Diagnostic Applications of Health Intelligence and Surveillance Systems, IGI Global	NA
Rosy Madaan	Incautious Usage of Social Media: Impact on Emotional Intelligence and Health Concerns	Diagnostic Applications of Health Intelligence and Surveillance Systems, IGI Global	NA
Kamlesh Sharma	Diagnostic Applications of Health Intelligence and Surveillance Systems	Review of Data Mining Techniques Used in Healthcare	NA



## 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: 2020-21

Title of paper	Name of all the author/s	Student Authors	Journal / Conference / Book Title
Design of THz Low Pass Filter using Split-Ring Resonators	Joy Singh, Sudhanshu Kumar Jha, Dr. Vimlesh, Dr. Y. K. Awasthi	Joy Singh, Sudhanshu Kumar Jha	International Journal for Light and Electron Optics
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 Kumar Singh, Krishna Gullapalli, Aayush Soni, Dr. Vimlesh	Arunabh Singh, Suraj Kumar Singh, Krishna Gullapalli, Aayush Soni	International Journal for Research in Applied Science & Engineering Technology

**b. Students benefited by career counseling and guidance for competitive Examinations: 2020-21**

Activity Description	No. of Participants
Technical classes by Department of Electronics & Communication Engineering	17
GATE classes by Department of Electronics & Communication Engineering	8
Career Progression Webinars on Emerging Trends in "Artificial Intelligence and Internet of Things"	22

**c. Student progression to higher education in percentage during the year: 2020-21**

Name of students enrolled for higher education	Graduated from which Programme	Name of Institution Joined	Admitted to (Name of Programme)
Achsa Benjamin	ECE	Humber College Institute of Technology and Advanced Learning	Wireless Telecommunications
Ritesh Singh	ECE	Maharishi Dayanand University	LLB (Hons)
Robin Singh	ECE	Indian Institute of Technology, Delhi	M Tech Program in RFDT
Manish Bhambhu	ECE	JC Bose University of Science and Technology, YMCA Faridabad	M Tech VLSI Branch
Manvijay Singh	ECE	University of Brighter Futures Westminster	MBA

**d. Events Organised: 2020-21**

Title	From Date	To Date
STTP on Internet of Things (IoT) for Emerging Engineering Applications in collaboration with AICTE (Series 1)	10-08-2020	17-08-2020
STTP on Internet of Things (IoT) for Emerging Engineering Applications in collaboration with AICTE (Series -2)	24-08-2020	29-08-2020
STTP on Internet of Things (IoT) for Emerging Engineering Applications in collaboration with AICTE (Series -3)	07-09-2020	12-09-2020
STTP on Internet of Things (IoT) for Emerging Engineering Applications in collaboration with AICTE (Series -4)	21-09-2020	26-09-2020



**e. Faculty members: Awards & Recognitions: 2020-21**

<b>Name of Faculty Member</b>	<b>Awards/Recognition</b>
Abhiruchi Passi	Invited Speaker to deliver talk on IETE Zonal Seminar organized by IETE MP Chapter on Challenges and Security issues in Internet of Things (16.5.2021)
Vimlesh Singh	Invited Speaker to deliver talk during IETE Zonal Seminar organized by IETE MP Chapter on Virtual Antenna: IOT solution (16.5.2021)
Vimlesh Singh	Invited Speaker to deliver talk on Publication Misconduct in 14 days E-Refresher Course on Research and Publications Ethics (27.6.2021)
Vimlesh Singh	Reviewer of IJUWBCS_320512, "C-SRR loaded CBCPW fed H-shaped slot radiator for ECG monitoring" for International Journal of Ultra Wideband Communications and Systems (IJUWBCS), Inderscience Journal. (16.3.2021)
Vimlesh Singh	External Practical Examiner for Data Acquisition and Transmission Lab for 7 <sup>th</sup> Semester Instrumentation & Control, IET, BU Jhansi (13.2.2021)
Y K Awasthi	Invited Reviewer to Review a research Paper for Microwave & Optical Technology Letters (21.2.2021)
Shaveta Thakral	Reviewed paper titled "Comparative Analysis of Logic Functions based on Quantum Cellular Automata (QCA)" for ETRI Journal (22.10.2020)

**f. FDPs/Workshops/Conferences Attended: 2020-21**

<b>Name of Faculty Member</b>	<b>Title</b>	<b>Date from</b>	<b>Date to</b>
Pratima Manhas	Training and Learning (ATAL) Academy Online Faculty Development Program on Internet of Things (IOT)	07-09-2020	11-09-2020
Yogendra Kumar Awasthi	Faculty Development Program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021
Umesh Dutta	Faculty Development program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021
Abhiruchi Passi	STTP on Internet of Things (IOT) for Emerging Engineering	21-09-2020	26-09-2020

	Applications		
Abhiruchi Passi	IEEE Workshop on Microwave and Antenna Applications in 5G	12-08-2020	13-12-2020
Abhiruchi Passi	Introduction to Software Robots and Automation	07-06-2021	11-06-2021
Abhiruchi Passi	ATAL FDP on 3D Printing & Design	18-01-2021	22-01-2021
Vimlesh Singh	Engineering Law	18-01-2021	22-01-2021
Vimlesh Singh	Sensors Technology	08-02-2021	12-02-2021
Vimlesh Singh	Advanced Communication and Antennas	15-02-2021	26-02-2021
Vimlesh Singh	FDP on 'Wearable Devices'	16-11-2020	20-11-2020
Vimlesh Singh	FDP on 'Biosimilar Technology'	23-11-2020	27-11-2020
Vimlesh Singh	IEEE Indian Conference on Antennas and Propagation (InCAP-2020)	17-12-2020	20-12-2020
Vimlesh Singh	STTP on Internet of Things (IOT) for Emerging Engineering Applications	10-08-2020	14-08-2020
Geeta Nijhawan	Faculty Development program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021
Jyoti Verma	STTP on Internet of Things (IOT) for Emerging Engineering Applications	10-08-2020	14-08-2020
Jyoti Verma	Industrial Internet of Things (IIoT)	07-06-2021	11-06-2021
Amana Yadav	STTP on Internet of Things (IOT) for Emerging Engineering Applications	24-08-2020	28-08-2020
Amana Yadav	ATAL FDP on VLSI Design, Verification and Testing	07-06-2021	11-06-2021
Gagandeep	STTP on Internet of Things (IOT) for Emerging Engineering Applications	21-09-2020	26-09-2020
Prerna Kakkar	STTP on Internet of Things (IOT) for Emerging Engineering Applications	21-09-2020	26-09-2020
Shaveta Thakral	STTP on Internet of Things (IOT) for Emerging Engineering Applications	07-09-2020	12-09-2020

#### g. Faculty Research Publication: 2020-21

Title of paper	Name of the author/s	Name of Journal	Year of publication
Design of THz Low Pass Filter Using Split-Ring	Joy Singh, Sudhanshu Kumar Jha, Vimlesh	Optik	2021



Resonators	Singh, YK Awasthi		
Machine Learning and its Application in Temperature Monitoring	Dr. Geeta Nijhawan, Abhinav Kumar, Divyansh Dixit	International Journal of Advanced Research in Engineering and Technology (IJARET)	2021
Comparative AHB AMBA 2.0 and AXI 4.0 Implementations in SOC Design	Hitanshu Saluja and Dr. Naresh Grover	Design Engineering	2021
Human Computer Interaction	Prerna, Rohit Kumar, Aditya Narayan Mishra, Gagan Yadav	YMER Digital	2021
IOT Security with Blockchain	Dr. Geeta Nijhawan, Abhinav Kumar, Divyansh Dixit	YMER Digital	2021
Multi-Band Polarization Insensitive Ultra-Thin THz Metamaterial Absorber for Imaging and EMI Shielding Applications	G. Saxena, Y. Khanna, Y.K. Awasthi, P. Jain	Advanced Electromagnetics,	2021

#### h. Book Chapters: 2020-21

Name of the teacher	Title of the book/chapters published	Title of the Paper	Title of the proceedings of the conference /
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 Nijhawan, Shruti Vashist	NA	Performance of Non-Orthogonal Multiple Access with MIMO System	9 <sup>th</sup> International conference on Innovation in Computer Science & Engineering (ICICSE-2021) Supported by Springer
Dipa Nitin Kokane, Geeta Nijhawan, Shruti Vashist	NA	Non-Orthogonal Multiple Access with Alamouti Technique for Future Wireless Communication	2nd International Conference on Communication, Computing & Industry 4.0-2021 C2i4-2021, CMRIT, Bangalore 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 SCOPUS Indexed LNNS Springer Proceedings
Manoj Kumar Tomar, Vimlesh Singh, Laxya	NA	A study on Development of CNTFET based Analog & Digital Circuits	4 <sup>th</sup> International Conference on Recent Developments in Control, Automation & Power Engineering (RDCAPE- 2021), Amity University Noida.
Joy Singh, Sudhanshu Kumar Jha, Saurabh Raturi, Vimlesh Singh, Yogendra Kumar Awasthi	NA	Design of Low Pass Filter using Microstrip Line – A Comparative Study	IEEE 8 <sup>th</sup> International Conference on Signal Processing and Integrated Networks (Spin-2021)
Y. K. Awasthi	NA	Parametric Analysis: Determining the Efficacy of Varied Approaches under Deregulated Electricity Market	IEEE 8 <sup>th</sup> 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	IEEE 8 <sup>th</sup> International Conference on Signal Processing and Integrated Networks (Spin-2021)
Dr. Vimlesh Singh	NA	Nanomaterial: Aerospace solution	2ND INTERNATIONAL CONFERENCE ON INDUSTRIAL AND MANUFACTURING SYSTEMS (CIMS-2021)
Monika, Abhiruchi Passi	NA	Digital Image Forensic based on Machine Learning approach for Forgery Detection and Localization	Journal of Physics: Conference Series, Volume 1950, International Conference on Mechatronics and Artificial Intelligence (ICMAI) 2021 27 February 2021, Gurgaon, India
Vimlesh Singh, Udai Bhan Singh, Priyanka Bansal & Amrinder Dhiman	Electropreneur ship: Bolstering Self Employment in Today's era	Self-Employment in Computer and Electronics Engineering	<a href="https://ieteb.org/wp-content/uploads/2021/08/Final-IETE-e-book.pdf">https://ieteb.org/wp-content/uploads/2021/08/Final-IETE-e-book.pdf</a>



Dr. Shaveta Thakral, Dr Jyoti Verma, Dr Pratima Manhas	Computer Organization and Architecture	NA	NA
Abhiruchi Passi	NA	Wireless Sensor Networks: An overview	International Conference on Reinventing Business, Entrepreneurship and Sustainability in the Era of Challenges, MRIIRS from 26th February to 27th February, 2021
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
Isha Rajput and Jyoti Verma	NA	Packages Intelligent Technologies and Robotics Intelligent Technologies and Robotics	Controller Design for Dynamic Stability and Performance Enhancement of Renewable Energy Systems
Vimlesh Singh, Amit Kumar and Mahesh Kumar Agwariya	Smart Antennas Latest Trends in Design and Application	Multiband Fractal Antenna with DGS	NA
Vimlesh Singh, Amit Kumar and Mahesh Kumar Agwariya	Smart Antennas Latest Trends in Design and Application	Application of Microstrip Antenna in IoT	NA

## **7. DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

### **i. 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: 2020-21

Title of paper	Name of all the author/s	Student Authors	Journal/Conference/Book Title
Wireless Floor Cleaner	Amit Verma, Amrinder Kaur	Amit Verma	Compliance Engineering

### b. Students benefited by career counseling and guidance for competitive Examinations 2020-21

Activity Description	No. of Participants
Gate Classes	11

### c. Student progression to higher education in percentage during the year:2020-21

Name of students enrolled for higher education	Graduated from which programme	Name of institution joined	Admitted to (Name of Programme)
VINAY	EEE	JC Bose University of Science and Technology, YMCA Faridabad	M Tech Electrical Engineering Branch

### d. Faculty members: Awards & Recognitions: 2020-21

Name of Faculty Member	Awards/Recognition
Anita Khosla	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)
Leena G.	Invited Reviewer of IEIB-D-20-00417, "Robust Incrementalised Least-Squares Estimation Method in State Estimation with Phasor Measurement Unit Measurements". (28.10.2020)
Leena G.	Invited Reviewer of IEIB-D-20-00462, "Meter Placement in Active Distribution System State Estimation using Objective Discretization and Indicator-Based Multi-Objective Evolutionary Algorithm with Adaptive Reference Point Method". 14.04.2021

**e. FDPs attended by Faculty Members: 2020-21**

<b>Name of Faculty Member</b>	<b>Title</b>	<b>Date from</b>	<b>Date to</b>
Ashish Grover	Faculty Development program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021
Anita Khosla	Faculty Development program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021
Leena G.	FDP on Current Trends of Power Electronics Applications in Electric Vehicles	07-06-2021	11-06-2021
Richa Adlakha	Online FDP on Recent Trends and opportunities for Research in Electronics and Computer Science Engineering	24-05-2021	28-05-2021
Amrinder Kaur	Online FDP on Green Technology & Sustainability Engineering	11-01-2021	15-01-2021
Amrinder Kaur	Online FDP on AI Application	22-02-2021	26-02-2021
Amrinder Kaur	Online FDP on Quantum Artificial Intelligence	24-05-2021	28-05-2021
Amrinder Kaur	Online FDP on Emerging Technological Challenges in Electric Vehicle	07-06-2021	11-06-2021
Neha Chaudhary (Midha)	Online UHV Refresher 1 FDP	22-02-2021	26-02-2021
Amit Atri	Online FDP on Advanced Electromagnetics and Applications	24-05-2021	28-05-2021
Amit Atri	Online FDP on Introduction to Software Robots and Automation	07-06-2021	11-06-2021
Amit Atri	Online FDP on Mobile Robotics	16-06-2021	20-06-2021

**f. EVENTS ORGANISED: 2020-21**

<b>Title of the professional development program organised for teaching staff: FDP, STC, Conference, Seminar, Expert talk, Session etc</b>	<b>From Date</b>	<b>To Date</b>
STTP on Recent Trends in Industrial Automation in collaboration with AICTE	04-08-2020	09-08-2020



(Series-1)		
STTP on Recent Trends in Industrial Automation in collaboration with AICTE (Series-2)	17-08-2020	22-08-2020
STTP on Recent Trends in Industrial Automation in collaboration with AICTE (Series-3)	31-08-2020	05-09-2020
International Conference on Renewable Technologies in Engineering	15-04-2021	16-04-2021

#### g. Faculty Research Publication: 2020-21

Title of Paper	Name of the Author/S	Name of Journal	Year of Publication
Design of PV-Grid Integrated System and Mitigation of Blackout Effect in LV Network	SM Parashar, G Leena, M Pande	Design Engineering	2021
Skin Cancer Detection: Microwave Imaging	Amrinder Kaur, Vimlesh Singh, Priyanka Bansal	Indian Journal of Natural Sciences	2021
Order Reduction of Linear Time invariant Large-Scale System by Preserving the Impact of Dominant Poles in the Reduced Model	Pragati Deb, Leena G	International Journal of Modelling and Simulation	2021
Comparison of Adaptive Filtering Scheme for Sustainable and Efficient Communication in Smart City	V Vimal, A Khosla, P Prabhakar, S Arora	Sustainable Energy Technologies & Assessments	2021
Identification of Spectrum Holes using Energy Detector based Spectrum Sensing	Chaudhary Neha, Mahajan Rashima	Int. Journal of Information Technology, (Singapore) Springer	2021

#### j. Book Chapters: 2020-21

Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference /workshop
Vineet Dahiya, Leena G.	Renewable Energy Optimization, Planning and Control	Analysis of Predictive Current Control Technique in Wind Energy Conversion System	Proceedings of IC RTE 2021, Volume 1

Amit Atri, Anita Khosla	Smart Structures in Energy Infrastructure	A Review of Load Frequency Control of Hybrid Power System	Proceedings of ICRTE 2021, Volume 2
Rakesh Sharma, Anita Khosla	Smart Structures in Energy Infrastructure	Compact and Efficient Way of LSEV Charging	Proceedings of ICRTE 2021, Volume 2
Arun, Anita Khosla	Smart Structures in Energy Infrastructure	A Concept Design of a Futuristic Battery Management System for Submarines using IEEE802.3bt Network	Proceedings of ICRTE 2021, Volume 2
Neha Chaudhary, Rashima Mahajan	Scopus LNEE. (Lecture Notes in Electrical Engineering)	Spectrum Sensing Techniques in Cognitive Radio Networks: Challenges and Future Direction	5 <sup>th</sup> International Conference on Microelectronics, Computing & Communication Systems
Ashish Grover, Anita Khosla	NA	Implementation of Soft Computing Techniques to Evade Partial Shading Effect for Off-Grid PV System	IEEE PES Power and Energy Conference
Neha Gupta, Mridula Batra, Anita Khosla	NA	Optimizing Greedy Algorithm to Balance the Server Load in Cloud Simulated Environment	3 <sup>rd</sup> International Conference on Inventive Research in Computing Applications (ICRCA 2021)
Leena G	IOP Conference Series: Materials Science and Engineering	Efficiency and Green House Emission Response of Different Vehicles Operating on Various Driving Cycles	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: 2020-21

Title of Paper	Name of all the author/s	Student Authors	Journal/Conference/Book Title
Design & Analysis of Progressive Die using Solid Works	Arpit Arora, Arpit Pathak, Akshat Juneja, Pankaj Shakkarwal Rajender Kumar	Arpit Arora, Arpit Pathak, Akshat Juneja	Materials Today Proceedings
Barriers in Designing and Developing Products by Additive Manufacturing for Bio-Mechanics Systems in Healthcare Sector	Rajender Kumar, Vishal Tyagi	Vishal Tyagi	Materials Today: Proceedings
Experimental investigations on Electrical Discharge Grinding of Hybrid Composite Material	B K Bhuyan, Nikhil Kumar, Ajay, Vineet	Nikhil Kumar, Ajay, Vineet	Materials Today Proceeding
Design and development of tabletop electrochemical grinding setup	B K Bhuyan, Chirag Garg, Lakshay Gupta	Chirag Garg, Lakshay Gupta	Materials Today: Proceedings

Machine learning: Best way to sustain the supply chain in the era of industry 4.0.	Devashish Nagar, Sudhanshu Raghav, Aman Bhardwaj, Rajender Kumar, Punj Lata Singh, Rahul Sindhwani	Devashish Nagar, Sudhanshu Raghav, Aman Bhardwaj, Punj Lata Singh, Rahul Sindhwani	Materials Today: Proceedings
Perspective Study of Abrasive Water Jet Machining of Composites - A Review	Anil Kumar Dahiya, B K Bhuyan,	Anil Kumar Dahiya	Materials Today Proceedings
Perspective Study of Abrasive Water Jet Machining of Composites - A Review	Anil Kumar Dahiya, B K Bhuyan,	Anil Kumar Dahiya	Journal of Mechanical Science and Technology

**b. Student progression to higher education in percentage during the year: 2020-21**

<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	Mech	Great Lakes	Post Graduate Program in Data Science and Engineering
Nikhil Kumar	Mech	Maharaja Agrasen Institute of Management Studies	MBA
Mohammad Nazief Ayobi	Mech	MRIIRS	PhD

**c. Faculty members: Awards & Recognitions: 2020-21**

<b>Name of Faculty Member</b>	<b>Awards/Recognition</b>
Joydeep Chakraborty	Appreciation Award as a coordinator of ISHRAE Student chapter, July 2020-June 2021
Jimmy Mehta	Judge at Sustainable Awareness Talk (SAT) competition organized by over and Out organization on 17 <sup>th</sup> October, 2020



Jimmy Mehta	Invited reviewer of Research Papers submitted for International Conference ICCEMME-2021, GLBITM Greater Noida. 11 <sup>th</sup> -13 <sup>th</sup> Feb 2021
Jimmy Mehta	Judgement in Sustainable awareness talk
Prateek Mittal	Invited reviewer of Research Papers submitted for International Conference ICCEMME-2021, GLBITM Greater Noida. 11 <sup>th</sup> -13 <sup>th</sup> Feb 2021
Rajender Kumar	Invited reviewer of Research Papers submitted for International Conference ICCEMME-2021, GLBITM Greater Noida. 11 <sup>th</sup> -13 <sup>th</sup> Feb 2021
Rajender Kumar	Invited reviewer of Research Papers submitted for International Conference FLAME-2020, Amity University, Noida. 11.09.2020
Rajender Kumar	Event coordinator at World Telecommunication and Information Society Day
Rajender Kumar	Event coordinator at Utility and Importance of Mathematical Science in Engineering Solutions
Rajender Kumar	Event coordinator at Transition to cyclic processes of waste management
Rajender Kumar	Event coordinator at Career opportunities in Green and Sustainable Infrastructure
Virender Narula	Invited resource person to deliver a talk on Introduction to ISO 9001:2015, Assam University, Silchar. 26.01.2021
Virender Narula	Received LA certification on ISO 45001 received on 03.06.2021
B. K. Bhuyan	Certificate of Reviewing for Materials Today: Proceedings, UK. 01.10.2020
B. K. Bhuyan	Certificate of Reviewing for International Conference (FLAME-2020), Amity University, Noida, UP. 07.08.2020
B. K. Bhuyan	Invited Resource Person to deliver a talk on Opportunities and Challenges in Electrochemical Spark Micro Machining, BBDNITM, Lucknow, UP. 02.11.2020
B. K. Bhuyan	Invited Resource Person to deliver a talk on Recent Scope of drilling Electrochemical Spark Machining Process, NIU, Greater Noida, UP. 12.02.2021
B. K. Bhuyan	Received Elite Certification NPTEL (Swayam-MOOC) course Advanced Machining Processes by IIT-Guwahati. Sep - Nov 2020
B. K. Bhuyan	Received Elite Certification NPTEL (Swayam-MOOC) course on Manufacturing Processes - Casting and Joining by IIT-Kanpur. Jan-Feb 2021
Dinesh Chawla	Invited Reviewer of Research Papers submitted for International Conference ICCEMME-2021, GLBITM Greater Noida. 11 <sup>th</sup> -13 <sup>th</sup> Feb 2021
Abhishek Kumar	Invited Reviewer of Research Papers submitted for International Conference ICCEMME-2021, GLBITM Greater Noida. 11 <sup>th</sup> -13 <sup>th</sup> Feb 2021

**d. FDPs attended by Faculty Members: 2020-21**

Name of Faculty Member	Title of FDP/Workshop/Conference	Date from	Date to
Manoj Nayak	Faculty Development program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021

Manoj Nayak	Coursera certification on Intelligent Machining	15-06-2020	06-07-2020
Manoj Nayak	Coursera certification on Digital Manufacturing & Design	15-07-2020	08-08-2020
Manoj Nayak	Coursera course on Advance Manufacturing Process Analysis	10-06-2020	06-07-2020
Manoj Nayak	Learn to Design your own Solar System	28-06-2020	02-07-2020
Basanta Kumar Bhuyan	Coursera certification on Advanced Manufacturing Process Analysis	15-06-2020	12-07-2020
Basanta Kumar Bhuyan	STC on Hybrid Manufacturing Processes: Opportunities and Challenges	06-07-2020	10-07-2020
Basanta Kumar Bhuyan	ATAL FDP on Advancement in Manufacturing Technologies for Industrial Applications	24-08-2020	28-08-2020
Basanta Kumar Bhuyan	ATAL FDP on 3D Printing & Design	01-09-2020	05-09-2020
Basanta Kumar Bhuyan	FDP in Advanced Machining Processes	14-09-2020	26-11-2020
Basanta Kumar Bhuyan	Thermal energy based Micro nano machining processes	02-11-2020	06-11-2020
Basanta Kumar Bhuyan	Processing, Characterization and Modeling of Smart Materials and Systems	18-01-2021	23-01-2021
Abhishek Kumar	Coursera course on Building Candlestick charts with Tableau	07-08-2020	08-09-2020
Abhishek Kumar	Coursera course on Block Chain Basics	15-08-2020	08-09-2020
Virender Narula	Coursera course on Introduction to Data Analysis Using Excel	12-08-2020	09-09-2020
Virender Narula	Coursera course on Effective Problem Solving and Decision Making	09-08-2020	06-09-2020
Virender Narula	Coursera course on Business Application of Hypothesis Testing and Confidence Interval Estimation	28-07-2020	25-08-2020
Virender Narula	Coursera course on Basic Data Descriptors, Statistical Distributions and Applications to Business Decisions	30-06-2020	28-07-2020
Virender Narula	Coursera course on Excel Skills for Business Essentials	01-06-2020	11-07-2020
Virender Narula	FDP on Introduction to ISO 9001	15-02-2021	20-02-2021
Devdutt	Course Certification on Introduction to Programming with MATLAB	28-05-2020	10-07-2020
Devdutt	International workshop on Effective Research Paper writing and Publishing Aspects	06-07-2020	17-07-2020
Devdutt	Course Certification on Programming Fundamentals	25-06-2020	19-07-2020
Devdutt	ATAL FDP on Robotics	24-08-2020	28-08-2020



Devdutt	FDP on Green Technologies & Environmental Sustainability	07-09-2020	12-09-2020
Devdutt	ATAL FDP on Non Linear problems in Mechanical And physical systems	07-06-2021	11-06-2021
Devdutt	FDP on Recent Trends & Advances in Robotics & Automation	21-09-2020	25-09-2020
Devdutt	FDP on Entrepreneurship	05-10-2020	17-10-2020
Devdutt	ATAL FDP on Mechatronics	19-10-2020	23-10-2020
Dinesh Chawla	FDP on Advanced Qualitative & Quantitative research Techniques	24-07-2020	29-07-2020
Dinesh Chawla	STC on Cryogenics and Composites: Theory and Applications (CCTA 2020)	03-08-2020	07-08-2020
Dinesh Chawla	ATAL FDP on Green Technology & Sustainability Engineering	05-10-2020	09-10-2020
Dinesh Chawla	ATAL FDP on Green Technology & Sustainability Engineering	19-10-2020	23-10-2020
Dinesh Chawla	FDP on Green Technologies & Environmental Sustainability	07-09-2020	12-09-2020
Dinesh Chawla	ATAL FDP on Electric Vehicle Technology: Challenges and Business Opportunity	21-06-2021	25-06-2021
Bhupender Singh	FDP on Materials Processing and Optimization	06-07-2020	10-07-2020
Bhupender Singh	STC on Multi scale Computational fluid Dynamics: Fundamentals & Applications	21-09-2020	25-09-2020
Bhupender Singh	ATAL FDP on Emerging technologies in Product design and Development	14-06-2021	18-06-2021
Rajender Kumar	Course Certification on Excel Skills for Business Essentials	21-06-2020	15-07-2020
Rajender Kumar	FDP on Supply Chain Management : Tool and Techniques	06-07-2020	10-07-2020
Rajender Kumar	STC on Reliability, Maintainability and Quality Issues in Process Industries	04-08-2020	08-08-2020
Rajender Kumar	AQIS on Advances in Manufacturing Technology: CNC & Robotics	17-08-2020	22-08-2020
Rajender Kumar	ATAL FDP on Sustainability Engineering	07-09-2020	11-09-2020
Rajender Kumar	ATAL FDP on Innovation Management	26-09-2020	30-09-2020
Rajender Kumar	FDP on Policy Initiative and Quality Enhancement in Higher Education	05-05-2021	11-05-2021
Rajender Kumar	ATAL FDP on Life skills for blissful life	07-06-2021	11-06-2021



Sunil Kumar	Coursera course on Excel Skills for Business: Intermediate I	10-06-2020	07-07-2020
Sunil Kumar	STC on Reliability, Maintainability and Quality Issues in Process Industries	04-08-2020	08-08-2020
Pankaj Sakkarwal	AQIS on Advances in Manufacturing Technology: CNC & Robotics	17-08-2020	22-08-2020
Pankaj Sakkarwal	FDP on Green energy technologies: Need of future	08-10-2020	14-08-2020
Pankaj Sakkarwal	FDP on Project management	24-08-2020	28-08-2020
Pankaj Sakkarwal	ATAL FDP on 3D Printing and Design	07-09-2020	11-09-2020
Pankaj Sakkarwal	STTP on Design, Simulation, Development and Characterization of Composites with Advanced Techniques	16-11-2020	21-11-2020
Pankaj Sakkarwal	FDP on Entrepreneurship Development	04-05-2021	17-05-2021
Pankaj Sakkarwal	CTRTC on CATIA	01-05-2021	15-05-2021
Pankaj Sakkarwal	FDP on Green Technologies and Environmental sustainability	07-09-2020	12-09-2020
Pankaj Sakkarwal	ATAL FDP on 3D Printing & Design	24-08-2020	28-08-2020
Jimmy Mehta	FDP on Engineering Optimization	13-07-2020	17-07-2020
Jimmy Mehta	Webinar: Atam-Nirbhar Bharat-Transmutation from Private to Exburance	27-07-2020	to 31-07-2020
Jimmy Mehta	ATAL FDP on Green Technology & Sustainability Engineering	05-10-2020	09-10-2020
Jimmy Mehta	ATAL FDP on the role of additive manufacturing in the era of Industry 4.0	21-06-2021	25-06-2021
Jimmy Mehta	ATAL FDP on Role of materials in electric vehicle	07-06-2021	11-06-2021
Prateek Mittal	ATAL FDP on Organizational Behaviour	14-09-2020	18-09-2020
Prateek Mittal	ATAL FDP on Novel Materials	05-10-2020	09-10-2020
Rajnish Saxena	Modeling approach in micro machining process	26-10-2020	30-10-2020
Sushant Sharma	FDP on Materials Processing and Optimization	06-07-2020	10-07-2020
Sushant Sharma	STC on Cryogenics and Composites: Theory and Applications (CCTA 2020)	03-08-2020	07-08-2020
Sushant Sharma	STC on Multi scale Computational fluid Dynamics: Fundamentals & Applications	21-09-2020	25-09-2020

Sushant Sharma	ATAL FDP on Electric Vehicles	05-10-2020	09-10-2020
Sushant Sharma	ATAL FDP on Emerging technologies in Product design and Development	14-06-2021	18-06-2021
Sushant Sharma	ATAL FDP on Mechatronics	19-10-2020	23-10-2020
Arun Gaur	International workshop on Effective Research Paper writing and Publishing Aspects	06-07-2020	17-07-2020
Arun Gaur	ATAL FDP on Organizational Behaviour	14-09-2020	18-09-2020
Arun Gaur	AQIS on Advances in Manufacturing Technology: CNC & Robotics	21-09-2020	26-09-2020
Dain D Thomas	ATAL FDP on Operations Management	05-10-2020	09-10-2020
Dain D Thomas	ATAL FDP on Operations Management	31-08-2020	04-09-2020
Dain D Thomas	Course Certification on Six Sigma Principles	25-06-2020	25-07-2020
Dain D Thomas	ATAL FDP on Robotics	18-01-2021	22-01-2021
Vinay	ATAL FDP on Plastics Recycling And Waste Management	14-06-2021	18-06-2021
Seema Mahto	ATAL FDP on Green Technology & Sustainability Engineering	26-10-2020	30-10-2020
Seema Mahto	Modern Research trends in Mechanical engineering	21-06-2021	25-06-2021
Seema Mahto	Artificial intelligence and Green power technology	14-06-2021	18-06-2021
Sorabh	Short Course on Learn to Design your own Solar System	23-06-2020	05-07-2020

**e. Events Organised: 2020-21**

Title	From Date	To Date
Workshop on Energy Conservation in collaboration with Ministry of Petroleum	27-09-2020	27-09-2020
Workshop on Chilled Water System in HVAC in collaboration with ISHRAE	24-12-2020	24-12-2020

**f. Faculty Research Publication: 2020-21**

Title of Paper	Name of the Author/S	Name of Journal	Year of Publication
Design & Analysis of Progressive Die using SOLIDWORKS	Arpit Arora, Arpit Pathak Akshat Juneja, Pankaj Shakkarwal, Dr. Rajender Kumar	Materials Today Proceedings	2021



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
Barriers in Designing and Developing products by Additive Manufacturing for Bio-Mechanics Systems in Healthcare Sector	Rajender Kumar	Materials Today: Proceedings	2021
Analyze the Critical Success Factor for Green Manufacturing for achieving Sustainability in Automotive Sector	Rajender Kumar	Recent Trends in Production and Industrial Engineering (Springer link) (Lecture Note)	2021
Improving Resources Utility in Construction Sector for the sustainable development	Rajender Kumar	Recent Trends in Production and Industrial Engineering (Springer link) (Lecture Note)	2021
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, Dr. Sumit Gupta and Vijay Chaudhary	Journal of Mechanical Engineering Science	2021
ISM-ANP hybrid approach to prioritize the barriers in green lean Six Sigma implementation in construction sector	Dain Thomas, Dinesh Khanduja	International Journal of Lean Six Sigma	2021
Perspective Study of Abrasive Water Jet Machining of Composites - A Review	Anil Kumar Dahiya, B K Bhuyan,	Journal of Mechanical Science and Technology	2021

**g. Book Chapters: 2020-21**

<b>Name of the teacher</b>	<b>Title of the book / chapters published</b>	<b>Title of the paper</b>	<b>Title of the proceedings of the conference</b>
Dain D Thomas	Operations Management and Data Analytics Modelling	Six Sigma: Integration with Lean and Green	NA
Dr. Rajender Kumar	Materials Today: Proceedings	Machine learning: Best way to sustain the supply chain in the era of industry 4.0.	ICCEMME-2021



## 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: 2020-21

Name of Faculty Member	Awards/Recognition
Vijay Kumar	Invited Resource Person to deliver an expert talk on Operation Research and Optimization at Institution of Engineers, Faridabad chapter (25.06.2021)
Arti Saxena	Invited Resource Person to deliver an expert talk on Banach fixed point theorem and Applications at Dwaraka Doss Goverdhan Doss Vaishnav College Chennai. (24.02.2021)

#### b. FDPs / Workshops / Conferences Attended by Faculty members: 2020-21

Name of Faculty Member	Title of FDP/Workshop/Conference	Date from	Date to
Devi Singh	International E-Conference on COVID-19 Global Impacts	20-07-2020	21-07-2020
Devi Singh	ATAL FDP on Energy Engineering	21-09-2020	25-09-2020
Sarvesh Kumar	FDP on Universal Human Values	27-08-2020	29-08-2020
Sarvesh Kumar	FDP on Effective Research Paper Writing & Publishing Aspects	06-07-2020	17-07-2020
Nisha Bansal	FDP on Waste management & its impact on Environment	20-07-2020	25-07-2020

Nisha Bansal	STC on Research and Development in Composite Material	27-07-2020	31-07-2020
Nisha Bansal	FDP on Universal Human Values	27-08-2020	29-08-2020
Nisha Bansal	ATAL FDP on Energy Engineering	21-09-2020	25-09-2020
Nisha Bansal	FDP on Designing Outcome Based Education	21-12-2020	23-12-2020
Nisha Bansal	Certification course on Classical Mechanics 1	26-01-2021	25-04-2021
Kapil Gupta	FDP on Waste management & its impact on Environment	20-07-2020	25-07-2020
Kapil Gupta	FDP on Research and Development in Composite Materials	27-07-2020	31-07-2020
Kapil Gupta	ATAL FDP on Energy Engineering	21-09-2020	25-09-2020
Kapil Gupta	FDP on Nanomaterials and their applications	26-06-2020	02-07-2020
Vikram Singh	FDP on Waste management & its impact on Environment	20-07-2020	25-07-2020
Vikram Singh	FDP on Research and Development in Composite Materials	27-07-2020	31-07-2020
Vikram Singh	FDP on Designing Outcome Based Education	21-12-2020	23-12-2020
Vikram Singh	FDP on Nanomaterials and their applications	26-06-2020	02-07-2020
Sandeep Srivastava	FDP on Research and Development in Composite Materials	27-07-2020	31-07-2020
Sandeep Srivastava	Workshop on Effective Research Paper Writing & Publishing Aspects	06-07-2020	17-07-2020
Sandeep Srivastava	International Conference on Modern Instrumental and Characterization Techniques in Applied Sciences-2020	07-05-2020	07-06-2020
Sandeep Srivastava	STTP on Innovations in Physics and Chemistry	18-05-2021	23-05-2021
Sandeep Srivastava	ATAL FDP on recent developments in sustainable processes	31-05-2021	04-06-2021
Neeraj Kumari	ATAL FDP on Organizational Behaviour	09-11-2020	13-11-2020
Neeraj Kumari	Workshop on Effective Research Paper Writing & Publishing Aspects	06-07-2020	17-07-2020
Neeraj Kumari	International e-Conference on COVID-19 Global Impacts	20-07-2020	21-07-2020
Deepak Kumar	ATAL FDP on Artificial Intelligence and Machine Learning Applications in Biomedical Engineering	21-09-2020	25-09-2020



Vijay Kumar	2 <sup>nd</sup> International European Conference on Interdisciplinary Studies organized by Institute of Economic Development and Social Research	04-07-2020	05-07-2020
Vijay Kumar	FDP on Entrepreneurship	05-10-2020	17-10-2020
Vijay Kumar	ATAL FDP on Data Science with Statistical Methods using R Programming	21-06-2021	25-06-2021
Arti Saxena	International Conference on Advancements in Interdisciplinary Research	24-07-2020	26-07-2020
Arti Saxena	ATAL FDP on Data Science	07-09-2020	11-09-2020
Arti Saxena	ATAL FDP on Data Science with Statistical Methods using R Programming	21-06-2021	25-06-2021
Rajeev Kumar	International Conference on Modern Instrumental and Characterization Techniques in Applied Sciences-2020	05-07-2020	06-07-2020
Rajeev Kumar	FDP on Nanotechnology and Functional Materials	02-11-2020	07-11-2020
Rajeev Kumar	Workshop on Effective Research Paper Writing & Publishing Aspects	06-07-2020	17-07-2020
Rajeev Kumar	ATAL FDP on Recent Trends in Chemical and Allied Industries	21-06-2021	25-06-2021
Rajeev Kumar	STTP on Innovations in Physics and Chemistry	18-05-2021	23-05-2021
Jyoti Chawla	Workshop on Universal Human Values - Inculcating Universal Human Values in Technical Education	09-07-2020	13-07-2020
Jyoti Chawla	International Conference on Modern Instrumental and Characterization Techniques in Applied Sciences-2020	05-07-2020	06-07-2020
Jyoti Chawla	Workshop on Effective Research Paper Writing & Publishing Aspects	06-07-2020	17-07-2020
Mukta Sharma	Workshop on Effective Research Paper Writing & Publishing Aspects	06-07-2020	17-07-2020
Mukta Sharma	FDP on Waste management & its Impact on Environment	20-07-2020	25-07-2020
Mukta Sharma	ATAL FDP on Waste Technology	23-11-2020	27-11-2020
Kalpna Varshney	Workshop on Effective Research Paper Writing & Publishing Aspects	06-07-2020	17-07-2020
Kalpna Varshney	FDP on Waste management & its impact on Environment	20-07-2020	25-07-2020



Kalpna Varshney	FDP on Moral Values and professional Ethics	19-10-2020	24-10-2020
Kalpna Varshney	ATAL FDP on Green Technology & Sustainability Engineering	05-10-2020	09-10-2020
Kalpna Varshney	FDP on Waste Technology	02-11-2020	06-11-2020
Anupama Rajput	Workshop on Effective Research Paper Writing & Publishing Aspects	06-07-2020	17-07-2020
Anupama Rajput	FDP on Waste management & its impact on Environment	20-07-2020	25-07-2020
Anupama Rajput	FDP on ICT tools for effective teaching and learning	08-06-2021	10-06-2021
Anupama Rajput	FDP on Research Methodology	26-04-2021	01-05-2021
Anupama Rajput	ATAL FDP on Waste Valorization towards a Sustainable Environment	14-06-2021	18-06-2021
Pooja Khurana	Short Term Course on Mathematical Optimization and Applications	22-03-2021	27-03-2021
Pooja Khurana	ATAL FDP on Data Science with Statistical Methods using 'R' Programming	21-06-2021	25-06-2021
Devi Singh	Workshop on Effective Research Paper Writing & Publishing Aspects	06-07-2020	17-07-2020
Devi Singh	ATAL FDP on recent developments in sustainable processes	31-05-2021	04-06-2021
Devi Singh	STTP on Innovations in Physics and Chemistry	18-05-2021	23-05-2021
Sandeep Srivastava	ATAL FDP on Energy Engineering	21-09-2020	25-09-2020
Jyoti Chawla	ATAL FDP on Recent Trends in Chemical and allied Industries	21-06-2021	25-06-2021
Shagufta Jabin	FDP on Waste management & its impact on Environment	02-11-2020	06-11-2020

### c. EVENTS ORGANISED: 2020-21

Title	From Date	To Date
Online FDP on Universal Human Values	27-08-2020	29-08-2020
Organic Farming and its effect on Human Life	29-08-2020	29-08-2020
IPR and Basics of Patent Filing	05-09-2020	05-09-2020
Scientific Writing and Reference Management using Mendeley	10-10-2020	10-10-2020
First online National Conference on 'Recent Trends in Science and Technology'	21-11-2020	21-11-2020
Workshop on effective e-waste management	15-06-2021	15-06-2021

#### d. Faculty Research Publication: 2020-21

Title of Paper	Name of Authors	Name of Journal	Year of Publication
Role of Polyelectrolytes in Treatment of Water and Waste water"	Shagufta Jabin J. K. Kapoor	Book Chapter, Springer Nature, Switzerland	August 2020
Conservation & Management of Urban Lakes: A case study of Udaipur City	Shagufta Jabin, Sonal Gupta, Anupama Rajput and Mukta Sharma	Ecology, Environ & Conservation	August 2020
Recent Progress of Functionalized Conducting in Polymers Optoelectronics	Deepali Khokhar, Sapana Jadoun, Rizwan Arif and Shagufta Jabin	Polymer-Plastics Technology and Materials	September 2020
An Overview of Soil Chemistry and Role of Its Components in Sorption of Heavy Metals in Soil	Shagufta Jabin, Jamal. A. Khan and Sapana Jadoun	Book Chapter in John Wiley publication,	March 2021
Pharmaceutical Pollution: A Grave Concern	Mukta Sharma, Shagufta Jabin and Manoj Sharma	Pollution Research	November 2020
Tuning the Spectral, Thermal and Morphological Properties of Poly (o-phenylenediamine-co-vaniline)	Deepali Khokhar, Sapana Jadoun, Rizwan Arif and Shagufta Jabin	Materials Research Innovations	January 2021
Copolymerization of O-phenylenediamine and 3-amino-5 – methylthio-1H-1,2,4 triazole for tuned optoelectronics properties and its antioxidant studies	Deepali Khokhar, Sapana Jadoun, Shagufta Jabin and Vaibhav Budhiraja	Journal of Molecular Structure	March 2021

#### e. Book Chapters: 2020-21

Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference
Deepak Kumar, Vinod Kumar, and Pooja Khurana	Analysis of Epidemiology: Integrating Computational Models	NA	NA



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

<b>Board of Faculty</b>			
1	Dr. Pardeep Kumar	Professor & PVC	Chairman & Dean
2	Dr. Geeta Nijhawan	Professor & Associate Dean	Member
3	Dr. Sarita Sachdeva	Professor & Head -BT & ED & Dean Research	Member
4	Dr. Supriya Panda	Professor & Head-CSE	Member
5	Dr. Tapas Kumar	Professor & Head-CSE(Spl)	Member
6	Air Cdr Devender Sharma	Professor & Head Aero	Member
7	Dr. Devendra Vashisht	Professor & Head-Auto	Member
8	Dr. Leena G.	Professor & Head-EEE	Member
9	Dr. Sunita Bansal	Professor & Head-Civil	Member
10	Dr. Abhiruchi Passi	Professor & Head-ECE	Member
11	Dr. Manoj Nayak	Professor & Head-Mech	Member
12	Dr. Arunangshu Mukherjee	Professor & Head-Environmental Sciences	Member
13	Dr. Jyoti Chawla	Professor & Head-Applied Sciences	Member
14	Dr. Suresh Kumar	Professor-CSE	Member
15	Dr. Virender Narula	Professor-Mech	Member
16	Dr. Devi Singh	Professor-Applied Sciences	Member
17	Dr. Sadiqa	Professor-Civil	Member
18	Dr. Abhilasha Shouri	Professor-BT	Member
19	Dr. Anita Khosla	Professor EEE	Member
20	Dr. Anjali Gupta	Associate Professor, Civil	Member
21	Ms. Simple Sharma	Associate Professor-CSE	Member
22	Dr. Kapila Kumar	Assistant Professor BT	Member
23	Mr. Arun Gaur	Assistant Professor Mech	Member
24	Dr. T.V.Vijay Kumar	Professor	Member
25	Sh. Viqaruddin Surki	Delivery Head	Member
26	Dr. Naresh Grover	PVC & Dean Academics	Special Invitee

### **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. P. K. Bhatnagar	Professor Emeritus, Dept. of Electronic Science, Delhi University, Delhi	External Member
11	Dr. Vikas Bhardwaj	Sr. Scientist , NCEGR, Geological Survey of India, Faridabad	External Member
12	Dr. Y. K. Sharma	Associate Professor, Maths, Manav Rachna University, Faridabad	External Member

#### Department of Aeronautical Engineering

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	Dr. R S Tarnacha	Professor, Dept of Aeronautical Engg., Amity University, Noida	External Member
7	Dr. Balraj Gupta	Former Director (Scientist G) Aerial Delivery Research and Development Establishment	External Member

#### Department of Biotechnology

1	Dr. Manu Solanki	Associate Professor	Chairman
2	Dr. Krishnamoorthy Kannan	Professor	Member
3	Dr. Sarita Sachdeva	Professor	Member
4	Dr. Joseph Alex Anand D	Professor	Member
5	Dr. Abhilasha Shourie	Professor	Member
6	Dr. Sabiha Imran	Associate Professor	Member
7	Dr. Shilpa S Chapadgaonkar	Associate Professor	Member
8	Ms. Rashmi Rameshwari	Assistant Professor	Member

9	Dr. Adhikarla Syama	Assistant Professor	Member
10	Dr. Arif Ali	Biotechnology, Jamia Milia Islamia, New Delhi	External Member
11	Dr. Neera Kapoor	Professor, School of Life Sciences, IGNOU, New Delhi	External Member

### Department of Civil Engineering

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, Ballabhgarh	External Member

### Department of Computer Science and Engineering

1	Dr. Supriya P. Panda	Professor & Head (CSE)	Chairperson, BOS
2	Dr. Tapas Kumar	Professor & Head (CSE-IBM)	Member
3	Dr. Suresh Kumar	Professor, CSE, FET, MRIIRS	Member
4	Dr. Brijesh Kumar	Professor, CSE and Associate Dean Academics –MRIIRS	Member
5	Dr. Indu Kashyap	Professor, CSE, FET, MRIIRS	Member
6	Dr. Charu Virmani	Professor, CSE, FET, MRIIRS	Member
7	Ms. Simple Sharma	Associate Professor, CSE, FET, MRIIRS	Member
8	Dr. Madhumita	Associate Professor, CSE, FET, MRIIRS	Member
9	Dr. Poonam Tanwar	Associate Professor, CSE, FET, MRIIRS	Member
10	Dr. Savita	Assistant Professor, CSE, FET, MRIIRS	Member
11	Dr. Prashant Dixit	Assistant Professor, CSE, FET, MRIIRS	Member
12	Dr. Tanvi Gupta	Assistant Professor, CSE, FET, MRIIRS	Member
13	Dr. Monika Garg	Assistant Professor, CSE, FET, MRIIRS	Member
14	Dr. Shobha Tyagi	Assistant Professor, CSE, FET, MRIIRS	Member
15	Ms. Manisha Vashisht	Assistant Professor, CSE, FET, MRIIRS	Member
16	Dr. V. K. Goyal	Professor, IIIT Delhi, CSE	External Member
17	Dr. Mayank Dave	Professor, CSE NIT, Kurukshetra	External Member
18	Dr. Munish Chandra Trivedi	Associate Professor, NIT, Agartala	External Member



19	Dr. T. V. Vijayakumar	Professor, CSE, JNU, New Delhi	External Member
20	Mr. Sushil Chandra	Tata Consultancy Services	External Member
21	Mr. Himanshu Gupta	IBM Research Pvt Ltd ,Delhi	External Member
22	Mr. Amit Dhār / Sakshi Jain	Microsoft Pvt Ltd.	External Member
23	Er. N. K. Garg	Vice President and Head Quality, R Systems, Noida	External Member
24	Mr. Vithal Madyalkar	Manager- Content and Delivery Excellence, GMU-IBM, Bangalore	External Member
25	Mr. Ananth.S.Kulkarni	IT Specialist, IBM Innovation Centre for Education, Bangalore	External Member

### Department of Mechanical Engineering

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

### Department of Electronics & Communication Engineering

1	Dr. Abhiruchi Passi	Associate 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, Head RIC	Member
5	Dr. Vimlesh Singh	Associate Professor, ECE	Member
6	Dr. Umesh Dutta	Associate Professor , ECE & Director, MRIIC	Member
7	Ms. Perna Kakkar	Assistant Professor, ECE	Member
8	Ms. Gagandeep Kaur	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	Ms. Ashish Grover	Assistant Professor, EEE, FET, MRIIRS	Member
6	Ms. Amrinder Kaur	Assistant Professor, EEE, FET, MRIIRS	Member
7	Dr. Dheeraj Joshi	Professor, DTU, Delhi	External Member
8	Mr. Vikram Mattoo	General Manager, Mitsubishi Electric India Pvt. Ltd	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	GM, CSR, HONDA	External Member

### 3.2 FACULTY OF COMMERCE & BUSINESS STUDIES

#### Name of Departments:

1. Department of Commerce
2. Department of Business Studies

Programmes					
Name of the Faculty	Programme	Student Intake		Total Admissions	
		UG	PG	UG	PG
	BBA - General	90		87	
	BBA - Banking and Financial Market	20		20	
	BBA (Global)-IB	20		15	
	B.Com (Hons.)	40		41	
	M.Com		10		08

#### Faculty of Commerce and Business Studies (FCBS)

#### List of Faculty Members:

Name of the Full-time teacher	Designation	Department
Rakesh Kumar Arya	Professor	Business Studies
Narinder Tanwar	Professor	Business Studies
Swati Watts	Associate Professor	Business Studies
Vinit Sikka	Associate Professor	Business Studies
Arvind Dalal	Associate Professor	Business Studies
Sushil Kumar Pasricha	Associate Professor	Business Studies
Urvashi Sharma	Associate Professor	Business Studies
Neha Wadhawan	Associate Professor	Business Studies
Anjali Singh	Associate Professor	Business Studies
Kanupriya Shekhar	Assistant Professor	Business Studies
Amit Kumar	Assistant Professor	Business Studies
Divya Gupta	Assistant Professor	Business Studies
Priyanka Verma	Assistant Professor	Business Studies
Kirti Khanna	Assistant Professor	Business Studies
Ritika Kharbanda	Assistant Professor	Business Studies
Manisha Grover	Assistant Professor	Business Studies
Madhumita Mahapatra	Assistant Professor	Business Studies
Priyanka Bhayana	Assistant Professor	Business Studies



Amanpreet Kaur	Assistant Professor	Business Studies
Monika Goel	Professor	Commerce
Jayender Verma	Professor	Commerce
Simran Kaur	Associate Professor	Commerce
Preeti Chhabra	Associate Professor	Commerce
Nidhi Tandon	Assistant Professor	Commerce
Ratika Agarwal	Assistant Professor	Commerce
Teena Hassija	Assistant Professor	Commerce
Arun Vashista	Assistant Professor	Commerce
Arkaja Garg	Assistant Professor	Commerce
Shilpa Bhatia	Assistant Professor	Commerce
Priyanka Srivastava	Assistant Professor	Commerce
Vibhooti Mishra	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. Faculty members: Awards & Recognitions: 2020-21

Name of Faculty Member	Awards/Recognition
Swati Watts	Invited as a Resource person in Urban Colloquium held at School of Human Settlements, Xavier University, and Bhubaneswar 30.01.2021
Swati Watts	Invited as a session chair during 1 <sup>st</sup> International Conference for Women in Multifaceted Research ICWMR 2021. 8th-9th March 2021
Swati Watts	Invited as a Chief Guest Valedictory one day international conference on Horizons in Commerce, Management and Economics: A way forward. 13.03.2021
Swati Watts	Invited as a speaker by Global Forum for Sustainable Rural Development. 17th-18th April 2021
Swati Watts	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 Sciences (Affiliated to University of Madras), Avadi, Chennai. 29.06.2021
Monika Goel	Invited Resource Person for MDP on Financial Data Analysis organized by AL-Roward Management Consulting, Qatar - UAE 30-03-2021 to 01-04-2021
Monika Goel	Invited Resource Person for MDP on Managing and Organizing Accounts Payable, organized by AL- Roward Management Consulting, Qatar - UAE. 06-04-2021 to 08-04-2021
Monika Goel	Invited as a Trainer to conduct MDP on "Financial Modelling Using Excel" for Officers for Dolhin Energy, organised by Al-Roward for Management and Technical Consulting, Doha, Qatar in association with MRIIRS. 13-12-2020 to 17-12-2020
Monika Goel	Invited as a Consultant to provide Consultancy on Technical Framework of GST Portal to Claim Interstate (CGST+SGST) Refund, at Romco India (Pvt) Ltd from 02-07-2020 to 14-10-2020
Monika Goel	Invited as a Consultant to provide Consultancy on Viability for opting for FCM Mechanism and registration under GST for a Transport at M/S KMR Transport on 09-10-2020
Swati Watts	Best Faculty Award during 2 <sup>nd</sup> International Academic and Research Excellence Award by CISR Foundation. (3rd Oct 2020)

## 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. Student progression to higher education in percentage during the year: 2020-21

Name of students enrolled for higher education	Graduated from which Programme	Name of institution joined	Admitted to (Name of Programme)
Sandeep Beniwal	BBA	Guru Gobind Singh Indraprastha University, Delhi	MBA
Praveen Chauhan	BBA	Amity University, Noida	MBA
Kush Sharma	BBA	Manav Rachna International Institute of Research & Studies	MBA
Dishant Sharma	BBA	Manav Rachna International Institute of Research & Studies	MBA
Bhoomika Sardana	BBA	New Delhi Institute of Management	PGDM
Aditya Daral	BBA	IILM, Delhi	
Mitansh Kapoor	BBA	Chandigarh University	Bachelor of Law
Jyoti	BBA	Chandigarh University	
Ishu Ishan	BBA	Jaypee Institute of Information Technology	MBA
Aditi Jain	BBA	Jagannath International Management School	PGDM (IB)



Juhi Bali	BBA	NMIMS Global Access School for Continuing Education, Gurgaon	MBA (FM)
Ruchika Sharma	BBA	Manav Rachna International Institute of Research & Studies	MBA
Ashi Sharma	BBA	Association of Chartered Certified Accounts	Corporate Business Law
Sandeep Beniwal	BBA	Guru Gobind Singh Indraprastha University, Delhi	MBA
Chaitanya Mahajan	BBA	PG	Moose Jaw Campus
Drishti	BBA	MBA	Chandigarh University
Hardik Gupta	BBA	MBA	IILM
Harshita	BBA	M Com	IGNOU
Yogesh Soni	B Com	Humber College	Global Business Management
Dhwani Arora	B Com	Gurugram University, Gurugram	M Com
Chetna Yadav	B Com	IILM UNIVERSITY	MBA
Abhishek Dubey	B Com	MERI College, New Delhi	MBA
Yogesh Bhiduri	B Com	APEX University, Jaipur	MBA
Rashmi Naithani	B Com	Indira Gandhi National Open University	Master of Arts(English)
Jitesh Mishra	B Com	Hansraj Community College	Diploma in Journalism & Mass Communication
Chirag Kulshrestha	B Com	IFIM College, Bangalore	MBA
Megha Goel	B Com	Manav Rachna International Institute of Research & Studies	MBA
Vinay Kumar	B Com	Maharishi Dayanand University	L.L.B (HONS)
Priya Sharma	B Com	The Institute of Cost Accountants of India	CA
Soubhagya Rout	B Com	The Institute of Chartered Accountants of India	CA
Gulnaz	B Com	Amity University	MBA
Anshu Garg	B Com	The Institute of Chartered Accountants of India	CA

Sehjal	B Com	Manav Rachna International Institute of Research & Studies	M Com
Mohd Haseeb	B Com	IFIM College, Bangalore	MBA
Hema	B Com	Amity University	MBA
Shweta Dagar	B Com	Manav Rachna International Institute of Research & Studies	MBA
Neha Dagar	B Com	Manav Rachna International Institute of Research & Studies	MBA
Ashutosh Singh	B Com	NMIMS Global Access School for Continuing Education, Gurgaon	MBA
Himanshi Bindal	B Com	MRIIRS	M Com
Manisha Bidhuri	B Com	Shiv College	B Ed
Hemak Kumar	M Com	Anglia Ruskin University	Finance & Law

#### b. FDPs/Conferences Attended: 2020-21

Name of the Faculty member	Title of the Event	Date From	Date to
Narinder Tanwar	Faculty Development Program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021
Neha Wadhawan	Faculty Development Program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021
Anjali Singh	Workshop on Advance Research Methods	26-12-2020	30-12-2020
Swati Watts	Coursera Certificate Introduction to Psychology	24-06-2020	07-07-2020
Swati Watts	ATAL FDP on Design Thinking	20-10-2020	30-10-2020
Madhumita Mahapatra	STTP on Machine Learning through ICT	12-10-2020	17-10-2020
Madhumita Mahapatra	Workshop on Machine Learning and Data Analytics Bootcamp	07-09-2020	12-09-2020
Vibhooti Mishra	ATAL FDP on Life Skill for Blissful Life	07-06-2021	11-06-2021

Monika Goel	Faculty Development Program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021
Nidhi Tandon	Faculty Development Program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021
Jayendra Verma	Faculty Development Program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021

### c. Faculty Research Publication: 2020-21

Title of Paper	Name of The Author/S	Name of Journal	Year of Publication
Circular Trading: Detection Algorithm Based on Graph Theory	Rajesh K. Tiwari, Sanjay Srivastava and Monika Goel	Design Engineering	2021
Impact of Goods and Service Tax on Tourism Industry with Focus on Tour Operator and Hotel Industry	Rajesh K. Tiwari, Sanjay Srivastava and Monika Goel	International Journal of Mechanical Engineering	2021
Price - An Overhyped Indicator in Tourism	Rajesh K. Tiwari, Sanjay Srivastava and Monika Goel	Natural Volatiles & Essential Oils	2021

### d. Book Chapters: 2020-21

Name of the Teacher	Title of the book/chapters published	Title of the Paper	Title of the proceedings of the conference
Bhavesh Prakash Joshi	Talent Management in India: Challenges and Opportunities	Changing Complexion of India Inc. and Talent Management: Discovery and Development	NA
Bhavesh Prakash Joshi	Contemporary Issues in Energy Sector	Mathura Refinery: Edifice of Excellence	NA



Bhavesh Prakash Joshi	Global Competitive Advantage: Concepts, Approaches and Practices (2 Vols.)	Crouching Tiger, beware India: A case study of South Korean IT industry"	NA
Bhavesh Prakash Joshi	Strategic Management for Firms in Developing Countries	Manufacturing Strategy in Ferozabad Glass Cluster: A Struggle	10 <sup>th</sup> International Annual Convention
Bhavesh Prakash Joshi	Emerging Trends in Technology Management	Role of IT in Customer Relationship Management with special reference to Banking Sector	NA
Bhavesh Prakash Joshi	Amity Management Analyst	Dangee Dums (Case Study)	NA
Bhavesh Prakash Joshi	Indian Financial System Structure of Indian Financial System	Regulations in Financial System	NA
Bhavesh Prakash Joshi	Project Finance	Project Development and Management	NA
Bhavesh Prakash Joshi	Project Finance	Project Feasibility Studies	NA
Bhavesh Prakash Joshi	Project Finance	Project Finance and Commercial Risks	NA
Bhavesh Prakash Joshi	Project Finance	Project Finance and Macroeconomic Risks	NA
Bhavesh Prakash Joshi	Project Finance	Risk Mitigation Methodologies for Projects	NA
Amandeep Dhaliwal	Blockchain for Business	Acceptance & Adoption of Blockchain Technology	NA
Sahil Malik	Blockchain for Business	Acceptance & Adoption of Blockchain Technology	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, Dept. of Business Studies	Member
3	Dr. Jayender Verma	Prof & Head, Dept. of Commerce	Member
4	Dr. Rakesh Arya	Professor, Dept. of Business Studies	Member
5	Dr. Swati Watts	Associate Professor, Dept. of Business Studies	Member
6	Ms. Nidhi Tandon	Assistant Professor, Dept. of Commerce	Member
7	Ms. Ratika Agarwal	Assistant Professor, Dept. of Commerce	Member
8	Dr. Amit Seth	Director FCBS	Invitee
9	Ms. Alka Kapoor	Jt. Secretary (Sr. Grade) The Institute of Company Secretaries of India, New Delhi	External Member
10	CA Manish Kumar	Partner, AARK & Co., Gurugram	External Member
11	Dr. B S Bodla	Director, Institute of Management Studies, Kurukshetra University, Kurukshetra.	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. Pulock Bhattacharji	Vice President, BSE Plot no.23, 101, Aggarwal Corporate Tower, Rajendra Place, New Delhi - 110008	External Member
8	Dr. Ashutosh Nigam	JC Bose University of Science and Technology, 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 Simran Kaur	Assistant Professor	Member
4	Dr Swati Watts	Associate Professor	Member
5	Dr Preeti Chhabra	Assistant Professor	Member
6	Mr Pulock Bhattacharji	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

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)	30		32	
	B.Sc. Nutrition and Dietetics	20		16	
	B.Sc. (Hons.)-Food Science and Technology	5		3	
	Master of Physiotherapy (MPT)		35		36
	M.Sc.- Nutrition and Dietetics		45		45

#### Faculty of Allied Health Sciences:

#### List of Faculty Members

Name of the Full-time teacher	Designation	Department
Gulshan Lal Khanna	Professor	Physiotherapy
Moattar Raza Rizvi	Professor	Physiotherapy
Ekta Chitkara	Associate Professor	Physiotherapy
Pooja Sharma	Associate Professor	Physiotherapy
Nitesh Malhotra	Associate Professor	Physiotherapy
Jaswinder Kaur	Assistant Professor & Medical Officer	Physiotherapy
Shishir Nigam	Assistant Professor	Physiotherapy
Shobhit Saxena	Assistant Professor	Physiotherapy
Preeti Saini	Assistant Professor	Physiotherapy
Akshay Anand	Assistant Professor	Physiotherapy
Sumit Arora	Assistant Professor	Physiotherapy
Sunita Kumari	Assistant Professor	Physiotherapy
Shweta Sharma	Assistant Professor	Physiotherapy
Heeral Joshi	Assistant Professor	Physiotherapy
Ankita	Assistant Professor	Physiotherapy

Dikshant Jatwani	Assistant Professor	Physiotherapy
Achin Kumar	Assistant Professor	Physiotherapy
Priyanka Sethi	Assistant Professor	Physiotherapy
Irshad Ahmad	Assistant Professor	Physiotherapy
Aswani Sasidharan Nambiar	Assistant Professor	Physiotherapy
Chandni	Assistant Professor	Physiotherapy
Jatin Maheshwari	Assistant Professor	Physiotherapy
Gurjeet Kaur Chawla	Professor	Nutrition & Dietetics
Pratibha Singh	Professor	Nutrition & Dietetics
Divya Sanghi	Professor	Nutrition & Dietetics
Mahak Sharma	Associate Professor	Nutrition & Dietetics
Lakhvinder Kaur	Associate Professor	Nutrition & Dietetics
Lucy George	Associate Professor	Nutrition & Dietetics
Ankita Sehgal Sharma	Assistant Professor	Nutrition & Dietetics
Priya Mishra	Assistant Professor	Nutrition & Dietetics
Shubhra Saraswat	Assistant 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
M. Sneha Nair	Assistant Professor	Nutrition & Dietetics
Srishti Negi	Assistant Professor	Nutrition & Dietetics
Upasana Yadav	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: 2020-21

Title of the Paper	Name of the author/s	Student Authors	Journal/Conference/Book Title
Chemical Constituents and Therapeutic Properties of Himalayan Rhododendron arboreum - A Review	Deepti Agarwal and M Awasthi	Deepti Agarwal	Journal of Biodiversity
Sensory Attributes and Flavonoid Content of Himalayan Rhododendron arboreum Flowers Based Tea	Deepti Agarwal and M Awasthi	Deepti Agarwal	International Journal of Biology, Pharmacy and Allied Sciences
A Review on usage of Nutritional Labelling: Consumer Preferences and Choices. A Review	Shubhangi Srivastav and Madhvi Awasthi	Shubhangi Srivastav	Advances in Food Sciences
Assessment of food handling practices of street food vendors of Delhi NCR	Vaishali, Srishti Negi	Vaishali	International Journal of Food Science and Nutrition



Influence of COVID-19 Pandemic on Health due to Home Confinement	Purvy Garg and Pratibha Singh	Purvy Garg	Current Medicine Research and Practice
Influence of Dietary Intake on Sleep Quality of College Students	Parushi Goel and Pratibha Singh	Parushi Goel	International Journal of Biology, Pharmacy and Allied Sciences
Assessment of Nutritional Quality of Developed Product (Muffin & Vermicelli) By Using Different Type of Seeds	Heena Dabral and Ankita Sharma	Heena Dabral	Plant archives

**b. Student progression to higher education in percentage during the year:2020-21**

<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>
Chaman Singh	BSc (N&D)	Manav Rachna International Institute of Research & Studies	Master of Science-Nutrition & Dietetics
Insha Shafaeen	BSc (N&D)	Manav Rachna International Institute of Research & Studies	Master of Science-Nutrition & Dietetics
Khushi Kashyap	BSc (N&D)	Manav Rachna International Institute of Research & Studies	Master of Science-Nutrition & Dietetics
Muskan Gupta	BSc (N&D)	Manav Rachna International Institute of Research & Studies	Master of Science-Nutrition & Dietetics
Natasha Karki	BSc (N&D)	Manav Rachna International Institute of Research & Studies	Master of Science-Nutrition & Dietetics
Pallavi Kumari	BSc (N&D)	Manav Rachna International Institute of Research & Studies	Master of Science-Nutrition & Dietetics

Saumya Shree	BSc (N&D)	Parul University, Gujrat	Master of Science-Nutrition & Dietetics
Sumedha Chakraborty	BSc (N&D)	Parul University, Gujrat	Master of Science-Nutrition & Dietetics
Tamanna	BSc (N&D)	IISU, Jaipur	MSc (HSC)
Rahitha Ravi	BSc (N&D)	St. Josephs College for women Alappuzha, Kerela	Master of Science-Nutrition & Dietetics
Amolika Bisht	BSc (N&D)	Manav Rachna International Institute of Research & Studies	Master of Science-Nutrition & Dietetics
Bhawna Kardam	BSc (N&D)	Manav Rachna International Institute of Research & Studies	Master of Science-Nutrition & Dietetics

**c. Faculty members: Awards & Recognitions: 2020-21**

<b>Name of Faculty Member</b>	<b>Awards/Recognition</b>
Gurjeet Kaur Chawla	Invited Resource Person to deliver expert talk on 'Golden Rules for Amazing Health and Well being'. (30th Sep 2020)
Gurjeet Kaur Chawla	Invited Resource Person for Knowledge during Webinar on Team Building. (31st Oct 2020)
Divya Sanghi	Appreciation Letter for Guest Lecture on "Nutrition during COVID-19" at 10days National Workshop on "My Life, My Yoga" at AIE, Noida (30 Aug to 9 Sept 2020)
Mahak Sharma	Invited speaker to deliver an expert talk on "Nutrition During Covid-19" Army Institute of Education. (5th Sept. 2020)

**d. FDPs attended by Faculty Members: 2020-21**

<b>Name of the Faculty member</b>	<b>Title of the Event</b>	<b>Date From</b>	<b>Date to</b>
Divya Sanghi	Coursera Course on Diabetes - The Essential Facts	18-07-2020	15-08-2020
Divya Sanghi	FDP on Integrative Approach Towards Current Practices in Food Product Development	29-04-2021	04-05-2021
Divya Sanghi	Faculty Development Program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021

Mahak Sharma	Coursera Course on Healthy Practices: Nutrition, Physical Activity, and Community and Family Participation	30-11-2020	27-12-2020
Mahak Sharma	FDP on Integrative Approach Towards Current Practices In Food Product Development	29-04-2021	04-05-2021
Ankita Sharma	International FDP on Research in Virtual World	01-09-2020	07-09-2020
Ankita Sharma	Coursera Course on COVID -19: Contact Tracing	20-08-2020	01-09-2020
Ankita Sharma	FDP on Integrative Approach towards Current Practices in Food Product Development	29-04-2021	04-05-2021
Shubhra Saraswat	FDP on Green Perspective in Food Processing Sector	10-05-2020	21-10-2020
Shubhra Saraswat	FDP on Integrative Approach towards Current Practices in Food Product Development	29-04-2021	04-05-2021
Madhvi Awasthi	Coursera Course on Healthy Practices: Nutrition, Physical Activity, and Community and Family Participation	18-12-2020	30-12-2020
Madhvi Awasthi	FDP on Integrative Approach Towards Current Practices In Food Product Development	29-04-2021	04-05-2021
Vandana Garg	Coursera Course on Science of Exercise	07-02-2020	31-07-2020
Vandana Garg	FDP on Integrative Approach towards Current Practices in Food Product Development	29-04-2021	04-05-2021
Vandana Garg	ATAL FDP on GIS & Remote Sensing	18-05-2021	22-05-2021
Vandana Garg	ATAL FDP on Leadership Excellence	05-06-2021	09-06-2021
Priya Mishra	Faculty Development Program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021
Priya Mishra	Coursera Course on Chemical & Health	11-08-2020	07-08-2020
Priya Mishra	Coursera Course on Science of Exercise	15-06-2020	11-07-2020
Priya Mishra	Coursera Course on Health care delivery in Health care organization	18-07-2020	15-08-2021
Divya Puri	Coursera Course on COVID 19: What you need to know (CME eligible)	22-06-2020	07-06-2020
Divya Puri	Coursera Course on Healthy Practices: Nutrition, Physical	19-07-2020	16-08-2020



	Activity, and Community and Family Participation		
Divya Puri	FDP on Integrative Approach towards Current Practices in Food Product Development	29-04-2021	04-05-2021
Divya Puri	ATAL FDP on Non-Thermal Processing of Food Products	29-06-2021	03-07-2021
Srishti Negi	Coursera Course on Weight Management :Beyon Balancing Calories	21-07-2021	26-08-2021
Srishti Negi	FDP on Integrative Approach Towards Current Practices In Food Product Development	29-04-2021	04-05-2021
Srishti Negi	ATAL FDP on Non-Thermal Processing of Food Products	29-06-2021	03-07-2021
Srishti Negi	ATAL FDP on Life Skills Management- ROAD - Leadership & Excellence.	21-06-2021	25-06-2021
M. Sneha Nair	Coursera Course on Introduction to Psychology	16-08-2021	30-08-2020
M. Sneha Nair	Coursera Course on Diabetes-The Esesntial Facts	10-08-2021	31-08-2021
M. Sneha Nair	FDP on Integrative Approach towards Current Practices in Food Product Development	29-04-2021	04-05-2021
M. Sneha Nair	ATAL FDP on Non-Thermal Processing of Food Products	29-06-2021	03-07-2021
M. Sneha Nair	ATAL FDP on Combating Cancer:Role of ML Techniques in Prevention and Treatments	07-06-2021	11-06-2021
Gurseen Rakhra	Coursera Course on Weight Management : Beyon Balancing Calories	18-06-2020	16-07-2020
Gurseen Rakhra	FDP on Integrative Approach towards Current Practices in Food Product Development	29-04-2021	04-05-2021
Gurjeet Kaur Chawla	FDP on Integrative Approach Towards Current Practices In Food Product Development	29-04-2021	04-05-2021
Pratibha Singh	FDP on Integrative Approach towards Current Practices in Food Product Development	29-04-2021	04-05-2021
Lakhvinder Kaur	FDP on Integrative Approach towards Current Practices in Food Product Development	29-04-2021	04-05-2021
Lucy George	FDP on Integrative Approach towards Current Practices in Food Product Development	29-04-2021	04-05-2021

**e. Events organized: 2020-21**

<b>Title of the Event</b>	<b>From date</b>	<b>To date</b>
FDP on - Integrative Approach towards Current Practices in Food Product Development	29-04-2021	04-05-2021
Two Day Virtual International Conference on Role of Micronutrient : Immunity and Health	18-06-2021	19-06-2021

**Faculty Research Publication: 2020-21**

<b>Title of Paper</b>	<b>Name of the Author/S</b>	<b>Name of Journal</b>	<b>Year of Publication</b>
Effect of Low Intensity Pulsed Ultrasound on Callus Formation in Tibial Diaphyseal Fracture - A Review	Madhvi Awasthi	Journal of Critical Reviews	2021
A Review on Interventions to Prevent Osteoporosis and Improve Fracture Healing in Osteoporosis Patients	Madhvi Awasthi	AIIMS Medical Science	2021
Medicinal and Nutritional Potential of Bauhinia Species	Madhvi Awasthi	Medicinal Plants	2021
Influence of Dietary Intake on Sleep Quality of College Students	Parushi Goyal and Pratibha Singh	International Journal of Biology Pharmacy and Allied Sciences (IJBPAS)	2021
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
Dietary Diversity in School Going Children: Review	Brij Pal Singh and Mahak Sharma	International Journal of Child Health and Nutrition	2021
Effect of type of Physical Activity on the Sleep Pattern of Sport Players	Preeti Saini, Mahak Sharma	Int. J Physiother.	2021
An Initiative for Management of Food Waste: An Observational Study	Ayushi Gupta , Mahak Sharma	Indian Journal of Public Health Research & Development	2021
Prevalence of Compulsive Exercise in Physically Activity	Shivani Pathania, Mahak Sharma, Preeti	Indian Journal of Physiotherapy &	2021

Adults	Saini	Occupational Therapy	
Therapeutic use of dropped pomegranate flowers on Metabolic Disorders: A review	Pratima Singh and Mahak Sharma	International Journal of Botany Studies	2021
Vegan or Low Calorie Diet for Weight Loss in Polycystic Ovary Syndrome Females: A Randomised Controlled Trial	Saloni Mittal, Dr Shubhra Saraswat, Dr Rizvi	Studies on Ethno Medicine	2021
Antimicrobial Packaging and its Use in Food Industry: A Review	Richa, Dr Shubhra Sarsawat, Ms Divya Puri	Bulletin of Environment, Pharmacology and Life Sciences	2021
Development and Evaluation of Vitamin-D and Calcium Rich Products using Different Cooking Techniques	Ridhi Narang and Ankita Sharma	Plant Archives	2021
Development of Low Glycemic Index Food Products Incorporating Sorghum, Moringa Oleifera, Nigella Sativa for Type II Diabetic Patients	Ankita Sharma and Mansi Arora	Plant Archives	2021
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



## 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: 2020-21

Title of Paper	Name of all the author/s	Student Authors	Journal/Conference/Book Title
Association of Explosive Power and Agility among Cricketers of State Level	Anagha Ghosalkar, Shishir Nigam, Preeti Saini	Anagha Ghosalkar	Plant Archives
Effect of Smoking on Shoulder Stability and Upper Limb Explosive Power in Young Adults	Rishu Grewal	Rishu Grewal	Medico Legal Update
Comparison of Gait Parameters between Normal Foot and Flat Foot in Young Adult Females	Saloni Jain, Shishir Nigam	Saloni Jain	Unnati International Journal of Multidisciplinary Scientific Research
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
Study of Comparison of Effect of Calf Muscles Release and Affirmation in Alleviating Hypertension in Middle Aged Women	N. Akumtola Sanglir, Priyanka Sethi, Preeti Saini, Mukul Kaushik	N. Akumtola Sanglir	Indian Journal of Basic and Applied Medical Research

**b. Students benefited by career counseling and guidance for competitive Examinations: 2020-21**

Activity Description	No. of Participants
Physiotherapy Overseas Perspective	183
Career Opportunities In Physiotherapy in India	150

**c. Student progression to higher education in percentage during the year: 2020-21**

Name of Students enrolled for Higher Education	Graduated from which Programme	Name of Institution Joined	Admitted to (Name of Programme)
Himanshi Chaudhary	BPT	Manav Rachna International Institute of Research & Studies	Master of Physiotherapy
Shubhi Saxena	BPT	Amity University, Uttar Pradesh	Master of Physiotherapy
Vishal Sharma	BPT	Manav Rachna International Institute of Research & Studies	Master of Physiotherapy
Aastha Arora	BPT	Manav Rachna International Institute of Research & Studies	Master of Physiotherapy
Khushboo Tyagi	BPT	Jamia Millia Islamia University, Delhi	Master of Physiotherapy
Prachi Dawar	BPT	Maharishi Markandeshwar University, Mullana, Amabala	MPT-Paediatrics
Praveen	BPT	Manav Rachna International Institute of Research & Studies	Master of Physiotherapy
Priya Garg	BPT	Manav Rachna International Institute of Research & Studies	Master of Physiotherapy
Priyanka Verma	BPT	Manav Rachna International Institute of Research & Studies	Master of Physiotherapy
Rahul	BPT	Manav Rachna International Institute of Research & Studies	Master of Physiotherapy
Sonam Ali Khan	BPT	Jamia Millia Islamia University, Delhi	Master of Physiotherapy
Arushi	BPT	Fanshawe College Boulevard	HCTIB - Health Care Administration

			Management
Jyoti Kaushik	BPT	Manav Rachna International Institute of Research & Studies	Master of Physiotherapy
Manjeet Bhati	BPT	Manav Rachna International Institute of Research & Studies	Master of Physiotherapy
Navjot Kaur	BPT	Lambton College-Toronto	Occupational Health and Safety Management
Pooja Pant	BPT	Lambton College-Toronto	Advanced Health Care Leadership
Rahul Thakur	BPT	Manav Rachna International Institute of Research & Studies	Master of Physiotherapy
Simran Mukhija	BPT	Manav Rachna International Institute of Research & Studies	Master of Physiotherapy
HIMANK KHOSLA	BPT	Health Care Administration	Alpha College - Toronto Campus
Rishu Grewal	BPT	University of Dundee, UK	Master of Physiotherapy
Abhishek Kumar	BPT	IAMR	Master of Physiotherapy
Madhu	BPT	University of Dundee, UK	M. Sc Orthopedic and Rehabilitation Technology

#### d. FDPs Attended by Faculty Members: 2020-21

Name of the Faculty member	Title of the Event	Date From	Date to
Moattar Raza Rizvi	Faculty Development Program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021
Moattar Raza Rizvi	FDP on Statistical Application in Research : A comprehensive Approach	25-07-2020	31-07-2020
Shweta Sharma	ISCOS (International Spine and Spinal Injuries Conference) 2019	09-12-2020	13-12-2020
Shweta Sharma	FDP on Integrative Approach Towards Current Practices In Food Product Development	29-04-2021	04-05-2021
Shweta Sharma	ATAL FDP on Role of Augmented Reality and Virtual Reality in Real-Time Applications	07-06-2021	11-06-2021
Shweta Sharma	ATAL FDP on Life skills: Personal Effectiveness	21-06-2021	25-06-2021



Priyanka Sethi	National Workshop on Statistical Data Analysis using SPSS	24-08-2020	30-08-2020
Priyanka Sethi	Workshop on Art of Writing Research Paper	18-01-2021	24-01-2021
Priyanka Sethi	FDP on Integrative Approach towards Current Practices in Food Product Development	29-04-2021	04-05-2021
Heeral Joshi	ISCOS (International Spine and Spinal Injuries Conference) 2019	09-12-2020	13-12-2020
Ankita Sharma	FDP on Statistical Application in Research : A comprehensive approach	25-07-2020	31-07-2020
Ankita Sharma	Coursera Course on Medical Emergencies: CPR, Toxicology and Wilderness	20-07-2020	18-08-2020
Ankita Sharma	National Workshop on Statistical Data Analysis using SPSS	24-08-2020	30-08-2020
Ankita Sharma	Workshop on Multi Variate data analysis using SPSS	18-11-2020	24-11-2020
Ankita Sharma	FDP on Integrative Approach Towards Current Practices In Food Product Development	29-04-2021	04-05-2021
Ankita Sharma	ATAL FDP on Data Analytics for Research and publication	14-06-2021	18-06-2021
Ankita Sharma	ATAL FDP on Life Skills: Personal Effectiveness	21-06-2021	26-06-2021
Shobhit Saxena	FDP on Integrative Approach Towards Current Practices in Food Product Development	29-04-2021	04-05-2021
Shobhit Saxena	International Conference on Recent Advances and Challenges in Sports Rehabilitation	05-06-2021	07-06-2021
Shobhit Saxena	ATAL Short Term Course on Innovative Pedagogical Practices in Higher Education	21-06-2021	25-06-2021
Shishir Nigam	Coursera Course on Doping: Sports, Organization and Sciences	01-08-2020	25-08-2020
Shishir Nigam	FDP on Integrative Approach Towards Current Practices In Food Product Development	29-04-2021	04-05-2021
Shishir Nigam	ATAL Short Term Course on Innovative Pedagogical Practices in Higher Education	21-06-2021	25-06-2021

Preeti Saini	Workshop on Effective Research Paper Writing & Publishing Aspects	06-07-2020	17-07-2020
Preeti Saini	FDP on Statistical Application in Research: A comprehensive Approach	25-07-2020	31-07-2020
Preeti Saini	National Workshop on Statistical Data Analysis using SPSS	24-08-2020	30-08-2020
Preeti Saini	ATAL Short Term Course on Innovative Pedagogical Practices in Higher Education	21-06-2021	25-06-2021
Irshad Ahmad	FDP on Statistical Application in Research: A comprehensive Approach	25-07-2020	31-07-2020
Irshad Ahmad	International Conference Recent Advancement in Physical Therapy and Rehabilitation	09-10-2020	11-10-2020
Irshad Ahmad	FDP on Integrative Approach Towards Current Practices In Food Product Development	29-04-2021	04-05-2021
Pooja Sharma	FDP on Integrative Approach Towards Current Practices In Food Product Development	29-04-2021	04-05-2021
Pooja Sharma	ATAL Short Term Course on Innovative Pedagogical Practices in Higher Education	20-06-2021	25-06-2021
Sunita Kumari	FDP on Integrative Approach Towards Current Practices In Food Product Development	29-04-2021	04-05-2021
Sunita Kumari	International Conference on medical and health sciences	15-06-2021	16-06-2021
Nitesh Malohtra	International Conference on Role of Micronutrients: Immunity & Health	18-06-2021	19-06-2021
Ekta Chitkara	FDP in Entrepreneurship	15-01-2021	28-01-2021
Ekta Chitkara	FDP on Integrative Approach Towards Current Practices in Food Product Development	29-04-2021	04-05-2021

#### e. Events Organized:2020-21

Title of the Professional Development Program Organised for Teaching Staff: FDP, STC, Conference, Seminar, Expert Talk, Session etc	From Date	To Date
First Virtual Int Conf on Recent Advances in Physical Therapy and Rehabilitation	9-10-2020	11-10-2020



FDP on Strength and Conditioning Aspects in Sports	15-04-2021	17-04-2021
International Conference on Recent Advances and Challenges in Sports Rehabilitation	05-06-2021	07-06-2021

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

<b>Board of Faculty</b>			
1	Dr. Naresh Grover	Professor & Dean-FAHS	Chairman
2	Dr. Moattar Raza Rizvi	Professor & Head, Dept of Physiotherapy	Member
3	Dr. Divya Singh	Associate Professor & Officiating HOD Dept of N&D	Member
4	Dr. Pratibha Singh	Professor, Dept of N&D	Member
5	Dr. Gurjeet Kaur Chawla	Professor, Dept of N&D/Dean, Student Welfare	Member
6	Dr. Ekta Chitkara	Associate Professor, Dept of Physiotherapy	Member
7	Dr. Mahak Sharma	Associate Professor, Dept of N&D	Member
8	Dr. Shobhit Saxena	Assistant Professor, Dept of Physiotherapy	Member
9	Ms Ankita Sharma	Assistant Professor, Dept of N&D	Member
10	Dr. Debabrata Kanungo	Former Additional Director General of Health Services, Ministry of Health & Family Welfare, Govt of India, New Delhi	External Member
11	Dr. Arvind Gupta	Dean Academics Asian Hospital, Faridabad	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. Ekta Chitkara	Associate Professor, Dept. of Physiotherapy	Member
6	Dr. Priya Mishra	Assistant Professor, Dept. of Nutrition and Dietetics	Member
7	Dr. Shubhra Saraswat	Assistant Professor, Dept. of Nutrition and Dietetics	Member
8	Dr. Iram Rao	Associate Prof, Dept. of Food Technology 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

<b>Department of Physiotherapy</b>			
1	Dr. Moattar Raza Rizvi	Director & Head, Dept. of Physiotherapy	Chairman
2	Dr. Pratibha Singh	Professor, Dept. of Nutrition & Dietetics	Member
3	Dr. Gurjeet Kaur Chawla	Associate Professor, Dept. of Nutrition & Dietetics	Member
4	Dr. Mahak Sharma	Professor, Dept. of Nutrition & Dietetics	Member
5	Dr. Ekta Chitkara	Associate Professor, Dept. of Physiotherapy	Member
6	Dr. Shishir Nigam	Assistant Professor, Dept. of Physiotherapy	Member
7	Dr. Shobhit Saxena	Assistant Professor, Dept. of Physiotherapy	Member
8	Dr. Seema Grover	Physiotherapy & Rehabilitation Indraprastha Apollo Hospitals, Sarita Vihar, New Delhi	External Member
9	Dr. Raju Parashar	Director/Principal, Amar Jyoti Institute of Physiotherapy, South Delhi	External Member
10	Dr. Ejaz Hussain	Professor, Centre for Physiotherapy & Rehabilitation, Jamia Millia Islamia, New Delhi	External Member

### 3.4 FACULTY OF COMPUTER APPLICATIONS

#### Name of Department:

- 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)	80		79	
	B.Sc.-IT	10		07	
	MCA		60		55

#### Faculty of Computer Applications:

#### List of Faculty Member

Name of the Full-time teacher	Designation	Department
Shyam Sunder Tyagi	Professor	Computer Applications
Parul Gandhi	Professor	Computer Applications
Rashmi Agrawal	Professor	Computer Applications
Shaveta Bhatia	Professor	Computer Applications
Anupriya Jain	Professor	Computer Applications
Sonal Pathak	Associate Professor	Computer Applications
Neha Gupta	Associate Professor	Computer Applications
Sonia Duggal	Associate Professor	Computer Applications
Mridula Batra	Associate Professor	Computer Applications
Sachin Sharma	Associate Professor	Computer Applications
Seema Sharma	Assistant Professor	Computer Applications
Vishawjyoti	Assistant Professor	Computer Applications
Chitra Jalota	Assistant Professor	Computer Applications
Raj Kumar	Assistant Professor	Computer Applications
Saket Kumar Choudhary	Assistant Professor	Computer Applications
Priyanka Sharma	Assistant Professor	Computer Applications
Sonia Setia	Assistant Professor	Computer Applications
Rajender Gola	Assistant 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: 2020-21

Title of paper	Name of all the author/s	Student Authors	Journal/Conference/Book Title
Smart Dustbin for Smart Cities using IoT	Shreya Bhardwaj, Bhavya Bansal, Sana Shahid, Sachin Sharma	Shreya Bhardwaj, Bhavya Bansal, Sana Shahid	International Journal of Future Generation Communication and Networking
A Study on SEO Tools and Techniques for Website	Praveen Kr, Deepak Mathpal, Akshay Gautam, Sachin Sharma	Praveen Kr, Deepak Mathpal, Akshay Gautam	International Journal of Disaster Recovery and Business Community

Search Engine Optimization Tools Techniques – A Review	Anupriya Jain, Muskan, Paresh Gupta, Bageesh	Muskan, Paresh Gupta, Bageesh	International Journal of Grid and Distributed Computing
IoT based Noise Control Clock	Anupriya Jain, Deepak, Akshay	Deepak, Akshay	International Journal of Future Generation Communication and Networking
Study on Data Mining and It's Techniques	Anupriya Jain, Sonu sharma, Lalit, Himanshu	Sonu sharma, Lalit, Himanshu	International Journal of Disaster Recovery and Business Continuity
Phishing Attack	Komal, Saurav, Jyoti, Anupriya Jain	Komal, Saurav, Jyoti	International Journal of Future Generation Communication and Networking
Visual Cryptography	Sachin Sharma, Anurag, Deepak Chaudhary	Anurag, Deepak Chaudhary	International Journal of Grid and Distributed Computing
Speech Recognition System: A Review	Hari Om, Sachin Sharma, Rohit Pahwa	Hari Om, Rohit Pahwa	International Journal of Future Generation Communication and Networking
Natural Language Processing and its role in COVID 19	Vikas Sharma, Rohan Khanna, Sonia Duggal	Vikas Sharma, Rohan Khanna	International Journal of Scientific & Engineering Research (IJSER)
A Review of Fingerprint Recognition Techniques	Sagar Singh, Saksham Jolly, Sachet Kumar, Anupama Pankaj	Sagar Singh, Saksham Jolly, Sachet Kumar	European Journal of Molecular & Clinical Medicine
IoT Based Water Tank Alarm	Deepak, Akshay, Anupriya Jain	Deepak, Akshay	Journal of Huazhong University of Science and Technology
License Plate Recognition System using Open CV & Py Tesseract	Anupama Chadha, Vaibhav Kumar, Sonu	Vaibhav Kumar, Sonu Kashyap, Mayank Gupta	CSI Journal of Computing

	Kashyap, Mayank Gupta		
A Systematic Review of Techniques, Tools and Applications of Machine Learning	Abhishek, Jagpreet, Neha Gupta	Abhishek, Jagpreet	3rd International Conference on Intelligent Communication Technologies and Virtual Mobile Networks (ICICV2021)
Optimizing IOT Drones using Cellular Networks	Bobby Singh, Nikita Singh, Akash, Neha Gupta	Bobby Singh, Nikita Singh, Akash	CICN-2020
Enhancing Graphic Performance Curve using Ray Tracing	Sahil Panghal, Dennis, Neha Gupta	Sahil Panghal, Dennis	CICN-2020
Big Data and IOT Devices for Smart Cities	Nisha Mansoori, Tanjya Rani, Anupriya Jain	Nisha Mansoori, Tanjya Rani	CICN-2020
Deep fake: An Overview	Anupama Chadha, Vaibhav Kumar, Sonu Kashyap, Mayank Gupta	Vaibhav Kumar, Sonu Kashyap, Mayank Gupta	Second International Conference on Computing, Communications, and Cyber-Security (IC4S 2020)
Systematic Review of Virtual Reality & its Challenges	Pawan Verma, Rohit Kumar, Jai Tuteja, Dr. Neha Gupta	Pawan Verma, Rohit Kumar, Jai Tuteja	3rd International Conference on Intelligent Communication Technologies and Virtual Mobile Networks (ICICV2021)
Proliferation of Digital education in times of COVID19	Raj Kumar, Shubham Bhalla, Tushar Arora, Manish Kumar	Shubham Bhalla, Tushar Arora, Manish Kumar	ICICC Conference 2021
Internet of Things (IOT)	Raj Kumar, Chanchal, Apurva, Anjali	Chanchal, Apurva, Anjali	ICICC Conference 2021



**b. Students benefited by career counseling and guidance for competitive Examinations: 2020-21**

Activity Description	No. of Participants
Career Counseling on Cloud Computing	51
Communication in Crisis Management - How to do it Right	35

**c. Student progression to higher education in percentage during the year:2020-21**

Name of students enrolled for higher education	Graduated from which Programme	Name of Institution Joined	Admitted to (Name of Programme)
Vaishnavi Kaushik	BSc. (IT)	Himalayan Institute of Technology	Master of Science Information Technology
Shlok Vashishth	MCA	Coding Blocks , New Delhi	Master of Data Science

**d. Faculty members: Awards & Recognitions: 2020-21**

Name of Faculty Member	Awards/Recognition
Rashmi Agrawal	Delivered Invited Lecture during one week AICTE Sponsered online STTP on New Dimension in Research Support Services: A contemporary Library Perspective (15-03-2021 to 20-03-2021)
Rashmi Agrawal	Contributed as technical session chair in International Conference on Computational Physics in Emerging Technologies (ICCPET 2020), organized by Srinivas University, Karnataka India (Aug-01-2020).
Rashmi Agrawal	Contributed as technical session chair in International Conference on Soft Computing and Signal Processing (ICSCSP 2020), organized by Malla Reddy College of Engineering and Technology, Hyderabad, India (Aug 21, 22-2020).
Rashmi Agrawal	Chaired a session in 2nd International Conference on Smart and Intelligent Learning for Information Optimization (CONSILIO) – 2020 organized jointly by Jaypee University of Engineering & Technology, Guna & Consilio Intelligence Research Lab Noida on October 24–25, 2020.
Rashmi Agrawal	Keynote Speaker in Webinar on "Applying Artificial Intelligence to improve Business value" organized by IETE Mysore centre on Sept 30, 2020.
Rashmi Agrawal	Associate Editor in Journal Array

Parul Gandhi	Invited Resource Person to Deliver an Expert Lecture on "Soft Computing to Improve the Quality of Software" organized by K R Manglam University. 23.06.2021
Parul Gandhi	Invited Resource Person to Deliver an Expert Lecture on "Building An Innovation / Product fit for Market" organized by Chandigarh Business School of Business, Lardan, Mohali. 05.05.2021

**e. FDPs attended by Faculty Members: 2020-21**

Name of the Faculty member	Title of the Event	Date From	Date to
Shaveta Bhatia	Faculty Entrepreneurship Development Program	15-03-2021	06-04-2021
Shaveta Bhatia	Faculty Development Program on Machine Learning	15-03-2021	26-03-2021
Parul Gandhi	Faculty Development program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021
Sonal Pathak	Faculty Development program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021
Anupama Pankaj	Ethics and Values in Technical education in context of National Education policy 2020	15-04-2021	19-04-2021
Anupama Pankaj	FDP on Data Science in IoT	21-06-2021	25-06-2021
Anupriya Jain	STTP on Data Science: Unfolding layers of Knowledge	07-12-2020	12-12-2020
Anupriya Jain	Faculty Development Program on Data Sciences	31-05-2021	04-06-2021
Neha Gupta	FDP on Cyber Security & Forensics	21-12-2020	26-12-2020
Neha Gupta	FDP on Cyber Security	06-07-2020	10-07-2020
Sonia Duggal	FDP on Cyber Security	06-07-2020	10-07-2020
Sonia Duggal	FDP on Two Boons for a Happier life - Health & Wellness	02-07-2020	04-07-2020
Sonia Duggal	STTP on Data Science: Unfolding Layers of Knowledge	07-12-2020	12-12-2020
Sachin Sharma	STTP on Data Science: Unfolding layers of knowledge	07-12-2020	12-12-2020
Sachin sharma	Faculty Development Program on Data Sciences	07-06-2021	11-06-2021
Mridula Batra	FDP on Cyber Security	06-07-2020	10-07-2020
Mridula Batra	International Conference on Computational Intelligence and Communication Networks	25-09-2020	26-09-2020
Mridula Batra	Faculty Entrepreneurship Development Program	15-03-2021	06-04-2021
Kavita Arora	FDP on Cyber Security	06-07-2020	10-07-2020



Kavita Arora	FDP on Role of Computational Intelligence in Society	06-07-2020	11-07-2020
Kavita Arora	FDP on Effective Teaching Pedagogy	20-07-2020	22-07-2020
Kavita Arora	FDP on AI and Data Science	22-07-2020	26-07-2020
Kavita Arora	Workshop on Natural Language Processing using Python	01-09-2020	05-09-2020
Kavita Arora	Faculty Development Program on Machine Learning	11-01-2021	23-01-2021
Kavita Arora	Faculty Development Program on Data Science	15-02-2021	27-02-2021
Kavita Arora	Faculty Development Program on Cloud Computing	15-03-2021	20-03-2021
Kavita Arora	Faculty Development Program on Machine Learning	15-03-2021	26-03-2021
Kavita Arora	Introduction to Software Development Life Cycle	17-05-2021	22-05-2021
Kavita Arora	Faculty Development Program on Quantum Artificial Intelligence	24-05-2021	28-05-2021
Kavita Arora	Advance Concepts on Networking and Linux	31-05-2021	05-06-2021
Kavita Arora	FDP on AI and Data Science	22-07-2020	26-07-2020
Chitra Jalota	FDP on Cyber Security	06-07-2020	10-07-2020
Chitra Jalota	FDP on Advanced Excel with Data Visualization	06-07-2020	10-07-2020
Chitra Jalota	FDP on Project Management	24-08-2020	28-08-2020
Chitra Jalota	FDP on Data Science and its Application in STEM	07-09-2020	21-09-2020
Chitra Jalota	Full Stack AI & Deep Learning Practitioner Approach	07-06-2021	19-06-2021
Chitra Jalota	Emerging Trends in the field of Artificial Intelligence and Machine Learning Applications	14-06-2021	18-06-2021
Chitra Jalota	Application of Artificial Intelligence and Machine Learning with Digital Image Processing	21-06-2021	25-06-2021
Chitra Jalota	Research Perspectives on AI, ML, Data Science & IOT	17-05-2021	05-06-2021
Chitra Jalota	Artificial Intelligence for CBSE Teachers	07-06-2021	11-06-2021
Rajkumar	FDP on Cyber Security	06-07-2020	10-07-2020
Raj Kumar	Recent Trends and Opportunities for Research in Electronics and Computer Science Engineering	24-05-2021	28-05-2021
Neerja Negi	ATAL FDP on Artificial Intelligence	26-09-2020	30-09-2020



Neerja Negi	ATAL FDP on Robust and Scalable Web Development using Python	21-09-2020	25-09-2020
Neerja Negi	Python	24-05-2021	29-05-2021
Neerja Negi	Artificial Intelligence and its Application	07-06-2021	11-06-2021
Sunita Joshi	FDP on Cyber Security	06-07-2020	10-07-2020
Sunita Joshi	STC on Application of Machine Learning in the Advancement of Computer Science, NIT Jahandhar, Punjab	17-08-2020	22-08-2020
Sunita Joshi	FDP on IoT Protocol & WSN Theory & Practice	17-08-2020	21-08-2020
Sunita Joshi	STC on Modern Tool & Techniques for Effective Research & Publication	21-08-2020	25-08-2020
Sunita Joshi	STC on Artificial Intelligence & its Application	27-07-2020	31-07-2020
Sunita Joshi	STC on Latest Trends in Communication & Microwave Technologies	02-09-2020	06-09-2020
Sunita Joshi	STC on Security & Privacy Challenges in Computing Paradigms	01-09-2020	05-09-2020
Sunita Joshi	STC on Machine Learning Theory & Applications	09-09-2020	13-09-2020
Sunita Joshi	STC on Electro Magnetic, Microwave, RF & Antenna Design Using Ansys HFSS	21-09-2020	26-09-2020
Sunita Joshi	ATAL FDP on Flexible and Wearable Antennas	12-10-2020	16-10-2021
Sunita Joshi	FDP on Advances in Wireless Communications	12-10-2020	16-10-2020
Sunita Joshi	Flexible and Wearable Antennas	09-02-2021	13-02-2021
Sunita Joshi	Modern Antennas for Present and Futuristic Wireless Communication Technology	08-03-2021	13-03-2021
Sunita Joshi	Modern Wireless Communication Systems & Antenna Engineering with Experimental Learning	15-03-2021	20-03-2021
Sunita Joshi	MIMO & Beamforming Antennas for wireless & Satellite Communication	26-04-2021	30-04-2021
Sunita Joshi	Cognitive Radio, Antennas & Millimeter Wave Communication	07-06-2021	11-06-2021
Vishwajyoti	Personal Effectiveness	07-06-2021	11-06-2021
Priyanka Sharma	Faculty Entrepreneurship Development Program	15-03-2021	06-04-2021
Priyanka Sharma	Innovation in Telemedicine in Rural India enabled by advancements in Artificial Intelligence, Medical Devices and Internet of Things	15-06-2021	19-06-2021
Rashmi Agrawal	Quantum Artificial Intelligence	24-05-2021	28-05-2021
Rashmi Agrawal	Role of AR and VR in Real - Time Applications	07-06-2021	11-06-2021
Seema Sharma	Data Sciences	31-05-2021	04-06-2021

Anupriya Jain	International Faculty Development Programme on Post Pandemic Computational Sciences: Challenges and Opportunities	22-06-2020	28-06-2020
Neha Gupta	ATAL Faculty Development Programme on Block Chain	20-04-2020	24-04-2020
Sachin Sharma	International Faculty Development Programme on Post Pandemic Computational Sciences: Challenges and Opportunities	22-06-2020	28-06-2020
Rashmi Agrawal	Advances in Computational Intelligence and Machine Learning Applications	04-05-2020	08-05-2020
Seema Sharma	Short Term Training Programme on Data Science & Learning Systems for Engineering Research & Design	24-06-2020	30-06-2020

#### f. Events Organized: 2020-21

Title	From Date	To Date
FDP on Cyber Security	06-07-2020	10-07-2020
FDP on Machine Learning	15-03-2021	26-03-2021

#### g. Faculty Research Publication: 2020-21

Title of paper	Name of the author/s	Name of journal	Year of publication
Converging AI and Robotic: Techniques and Applications	Ankit Raj, Lakshita Gugnani, Manish Dubey, Neha Gupta	Artificial & Computational Intelligence	2021
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
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

#### h. Book Chapters: 2020-21

Name of the teacher	Title of the book/chapters published	Title of the proceedings of the conference
Kavita Arora	Chronic Kidney Disease Detection Using Machine Learning Regression Models	International Conference on Futuristic Trends for Sustainable Ecosystem (FTSE-2021)



Sonal Patha, Kavita Arora, Mridula Batra	Influence of Artificial Intelligence and Machine Learning Algorithms on Human Psychology and Decision Making	International Conference on Futuristic Trends for Sustainable Ecosystem (FTSE-2021)
Divyansh Pushkarna, Mayank Bhati, Peeyush Sharma, Mridula Batra	Reasons to Secure India against Cyber Attacks	International Conference on Futuristic Trends for Sustainable Ecosystem (FTSE-2021)
Shobha Chawla, Neha Gupta	An Analytical View of Revocable Attribute Based Encryption Scheme	2nd International Conference on Electronics & Sustainable Communication Systems (ICESC) August 2021, Coimbatore (IEEE)
Nikhil, Arushi Saini, Santu Pandey, Neha Gupta	Polynomial based Linear Regression Model To Predict Covid-19 Cases	2021 6th IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT-2021)
Bharti Bisht, Parul Gandhi	Reusability Estimation of Object-Oriented (O-O) Systems using SOM Technique	2 <sup>nd</sup> International Conference on Emerging technologies for Computing, Communication and Smart Cities (ETCCS-2021)
Neha Gupta, Mridula Batra, Anita Khosla	Optimizing Greedy Algorithm to Balance the Server Load in Cloud Simulated Environment	3rd International Conference on Inventive Research in Computing Applications ICIRCA 2021
Stephen Philip, Pawan Vashisth, Anant Chaturvedi, Neha Gupta	Imputation of Missing Values using Improved K-Means Clustering Algorithm to Attain Data Quality	3rd International Conference on Inventive Research in Computing Applications ICIRCA 2021
Chitra Jalota, Rashmi Agrawal	Privacy Preserving using Data Mining	NA
Pooja Tiwari Vikas Garg Rashmi Agrawal	Changing World: Smart Homes Review and Future	NA
Neha Puri , Vikas Garg, Rashmi Agrawal	Blockchain Technology: Applications for Next Generation	NA
Abhishek Kumar, Pramod Singh Rathore, Vicente García Díaz, Rashmi Agrawal	Swarm Intelligence Optimization: Algorithms and Applications	NA



Melody Moh, Kanta Prasad Sharma, Rashmi Agrawal, Vicente Garcia Diaz	Smart IoT for Research and Industry	NA
Parul Gandhi, Surbhi Bhatia, Kapal Dev	Data Driven Decision Making using Analytics	NA
Vaishali Arya, and Rashmi Agrawal	Comparative Analysis of Machine Learning Algorithms for Hybrid Sources of Textual Data: In Development of Domain Adaptable Sentiment Analysis Model	Research in Intelligent and Computing in Engineering
Devender Bhushan, Rashmi Agrawal	Security and Privacy in IOT	Research in Intelligent and Computing in Engineering
Swarna, Srinivasa Rao, Shweta Sharma, and Rashmi Agrawal	A Review of Bigdata and Machine Learning Techniques in Healthcare	3rd International Conference on Intelligent Sustainable Systems (ICISS). IEEE, 2020
SR Swarna, S Boyapati, P Dixit, Rashmi Agrawal	Diabetes Prediction by using Big Data Tool and Machine Learning Approaches	3rd International Conference on Intelligent Sustainable Systems (ICISS). IEEE, 2021
Sagar Samrat, Sonal Pathak	R & D Management	MRCON-21
Pawan Verma, Rohit Kumar, Jai Tuteja, Neha Gupta	Systematic Review of Virtual Reality & its Challenges	3rd International Conference on Intelligent Communication Technologies and Virtual Mobile Networks (ICICV2021)
Abhishek, Jagpreet, Neha Gupta	Systematic Review of Virtual Reality & its Challenges	3rd International Conference on Intelligent Communication Technologies and Virtual Mobile Networks (ICICV2021)
Swarn Avinash Kumar, Abhishek Kumar, Vishal Dutt, Rashmi Agrawal	Multi Model Implementation on General Medicine Prediction with Quantum Neural Networks	Third International Conference on Intelligent Communication Technologies and Virtual Mobile Networks (ICICV)
Rashmi Agrawal, Neha Gupta	Analysis of COVID-19 Data Using Machine Learning Techniques	International Conference on Data Analytics and Management, ICDAM-2020
S S Tyagi, Shaveta Bhatia	Blockchain for business: How it creates value?	NA

Mridula Batra, Neha Gupta	Fault Tolerance Algorithms for Cloud Node Reliability	NA
Parul Gandhi	Internet of Things in Business Transformation: Developing an Engineering and Business Strategy for Industry 5.0	NA
Rashmi Agrawal, Neha Gupta	Transforming Cyber Security Solutions using Blockchain	NA
Abhishek Kumar, Pramod Singh Rathore, Vicente García Díaz, Rashmi Agrawal	Swarm Intelligence Optimization: Algorithms and Applications	NA
Sonal Pathak	Blockchain Enabled Supply Chain Management Systems	NA
Priyanka Sharma	Internet of Things and Blockchain	NA
Vishawjyoti	E-Wallets	NA
Neha Gupta, Rashmi Agrawal	Impact of Deep Learning on Semantic Sentiment Analysis	NA
Neha Gupta, Rashmi Agrawal	Integrating Semantic Acquaintance for Sentiment Analysis	NA

Board of Faculty			
1	Dr. S. S Tyagi	Professor & Dean-FCA, MRIIRS	Chairperson
2	Dr. Shaveta Bhatia	Professor & Head, Dept. of Computer Applications, MRIIRS	Member
3	Dr. Parul Gandhi	Professor, Dept. of Computer Applications, MRIIRS	Member
4	Dr. Sonal Pathak	Associate Professor, Dept. of Computer Applications, MRIIRS	Member
5	Ms. Neerja Negi	Assistant Professor, Dept. of Computer Applications, MRIIRS	Member
6	Dr. C K Nagpal	Professor, Dept. of Computer Science & Engg, J.C Bose University of Science & Technology, YMCA, Faridabad	External Member
7	Dr. Nanhay Singh	Professor & Head, CSE Department Ambedkar Institute of Advance Communication Technologies and Research (AIACR) Delhi	External Member

<b>Board of Studies</b>			
1	Dr. Shaveta Bhatia	Professor & Head, Dept. of Computer Applications, MRIIRS	Chairperson
2	Dr. S.S Tyagi	Professor & Dean-FCA, MRIIRS	Member
3	Dr. Rashmi Agrawal	Professor, Dept. of Computer Applications, MRIIRS.	Member
4	Dr. Parul Gandhi	Professor, Dept. of Computer Applications, MRIIRS.	Member
5	Dr. Anupriya Jain	Associate Professor, Dept. of Computer Applications, MRIIRS.	Member
6	Dr. Sonia Duggal	Associate Professor, Dept. of Computer Applications, MRIIRS.	Member
7	Ms. Mridula Batra	Assistant Professor, Dept. of Computer Applications, MRIIRS.	Member
8	Mr. Siddharth Verma	Assistant Professor, Dept. of Computer Applications, MRIIRS.	Member
9	Dr. Afshar Alam	Professor & Dean, School of Engineering Science & Technology, Jamia Hamdard University, New Delhi	External Member
10	Mr. Siddharth Das	President & Co-Founder, Stratemis Pvt Ltd, Gurugram	External Member



### 3.5 FACULTY OF MEDIA & HUMANITIES

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)	40		36	
	BA (Hons) English	30		27	
	MA-Journalism and Mass Communication (MJMC)		06		06
	MA English		12		11

#### Faculty of Media & Humanities:

##### List of Faculty Member

Name of the Full-time teacher	Designation	Department
Maithili Ganjoo	Professor	Journalism and Mass Communication
Aman Vats	Professor	Journalism and Mass Communication
Kumar Raajesh	Professor	Journalism and Mass Communication
Suman Kumari	Associate Professor	Journalism and Mass Communication
Manoj Raut	Associate Professor	Journalism and Mass Communication
Aditya Shukla	Associate Professor	Journalism and Mass Communication
Diksha Bhashkar Bhatia	Assistant Professor	Journalism and Mass Communication
Pooja Gahrotra	Assistant Professor	Journalism and Mass Communication
Gaurav Shukla	Assistant Professor	Journalism and Mass Communication
Somya Sharma	Assistant Professor	Journalism and Mass Communication
Kalyan Srinivas Raygalla	Assistant Professor	Journalism and Mass Communication
Rahul Joshi	Assistant Professor	Journalism and Mass Communication
Mithali Mohanty	Assistant Professor	Journalism and Mass Communication
Geetika Vashishata	Assistant Professor	Journalism and Mass Communication

Shivani Vashist	Professor	English
Jyoti Sharma	Professor	English
Sujata	Associate Professor	English
Swati Chauhan	Associate Professor	English
Suchitra Vashisth	Associate Professor	English
Tripti	Assistant Professor	English
Jayashree Hazarika	Assistant Professor	English
Antara	Assistant Professor	English



## 1. 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 project on development communication, and sponsored workshops.

### ii. Academic Achievement:

#### a. Student progression to higher education in percentage during the year:2020-21

Name of students enrolled for higher education	Graduated from which Programme	Name of institution joined	Admitted to (Name of Programme)
Harshita	BAJMC	JC Bose University of Science and Technology, YMCA Faridabad	MAJMC
Mibom Tayi Taggu	BAJMC	Rajiv Gandhi University, Arunachal Pradesh	MA in Mass Communication

#### b. Faculty members: Awards & Recognitions: 2020-21

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 Appreciation for contributing as Judge in Filmography Festival 2021, SJMC-K.R Mangalam, Woodpecker International Film



	Festival & Grey Matters Communication Consulting. 16th-17th June 2021
Aman Vats	Certificate of Appreciation for contributing as Panelists, Speaker & Reviewer in International Conference on Strategic Communication, G.D Goenka University. 1st-3rd May 2021
Aman Vats	Letter of Appreciation for serving as Article Editor for SAGE Open by SAGE Open Editorial Office. 08.05.2021
Aman Vats	Reviewer certificate of Regular Issue for Advances in Science, Technology and Engineering Systems Journal. 28.06.2021

### c. FDPs attended by Faculty Members: 2020-21

<b>Name of Faculty Member</b>	<b>FDP/Workshop/Conference Attended</b>	<b>Date From</b>	<b>Date To</b>
Manoj Raut	FDP on Research in Virtual World	01-09-2020	07-09-2020
Aman Vats	FDP (online) on NAAC Revised Accreditation Framework & Quelling the Quest	11-03-2021	17-03-2021
Rahul Joshi	FDP on Research Methodology, Data Analytical ICT Tools & Techniques	17-12-2020	24-12-2020
Rahul Joshi	FDP on Research in Virtual World	01-09-2020	07-09-2020
Rahul Joshi	FDP on E-content and ICT Tools for Effective Teaching and Learning Process	08-08-2020	14-08-2020
Rahul Joshi	National Research Conclave on "Scaling Techniques & Data Analysis using Excel and SPSS	26-04-2021	30-04-2021
Rahul Joshi	Online FDP on Research Methodology	10-05-2021	14-05-2021
Abhishek Kumar Singh	FDP on Research in Virtual World	01-09-2020	07-09-2020
Abhishek Kumar Singh	FDP on Research Methodology, Data Analytical ICT Tools & Techniques	17-12-2020	24-12-2020
Dhiraj Arya	FDP on Research in Virtual World	01-09-2020	07-09-2020
Somya Sharma	FDP on Research in Virtual World	01-09-2020	07-09-2020
Somya Sharma	FDP on Research Methodology, Data Analytical ICT Tools & Techniques	17-12-2020	24-12-2020
Somya Sharma	Online Elementary FDP on "Cinematic Communication"	14-06-2021	18-06-2021
Mitali Mohanty	FDP on Research in Virtual World	01-09-2020	07-09-2020
Mitali Mohanty	FDP on Research Methodology, Data Analytical ICT Tools & Techniques	17-12-2020	24-12-2020
Gaurav Shukla	FDP on Research in Virtual World	01-09-2020	07-09-2020
Gaurav Shukla	FDP on Research Methodology, Data Analytical ICT Tools & Techniques	17-12-2020	24-12-2020

Maithili Ganjoo	Faculty Development program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021
Suman Kumari	Faculty Development program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021
Suman Kumari	FDP on Research in Virtual World	01-09-2020	07-09-2020
Suman Kumari	FDP on Research Methodology, Data Analytical ICT Tools & Techniques	17-12-2020	24-12-2020
Suman Kumari	FDP on Designing Outcome Based Education	21-12-2020	23-12-2020
Ankita Bharti	FDP on Research in Virtual World	01-09-2020	07-09-2020
Ankita Bharti	FDP on Research Methodology, Data Analytical ICT Tools & Techniques	17-12-2020	24-12-2020
Geetika Vashishtha	FDP on Research in Virtual World	01-09-2020	07-09-2020
Geetika Vashishtha	FDP on Research Methodology, Data Analytical ICT Tools & Techniques	17-12-2020	24-12-2020
Aditya Shukla	National workshop on 'Artificial Intelligence and Media'	22-02-2021	26-02-2021
Aditya Shukla	Online Elementary FDP on "Cinematic Communication"	14-06-2021	18-06-2021

**d. Event Organized: 2020-21**

Title	From Date	To Date
Faculty development programme on research methodology and data analytical ICT Tools and techniques	17-12-2020	24-12-2020
International Virtual Faculty Development Programme on Mastering the Craft of Teaching in association with Cape Comorin Trust	21-06-2021	27-06-2021

**e. Faculty Research Publication: 2020-21**

Title of paper	Name of the author/s	Name of journal	Year of publication
<i>Guru Granth Sahib ki Vichar Dhara 'Parmatma ka Samvidhan'</i>	Dr. Manisha Rathaur	kala Sarover	2021

## f. Book Chapters: 2020-21

<b>Name of the teacher</b>	<b>Title of the book/chapters published</b>	<b>Title of the paper</b>	<b>Title of the proceedings of the conference /</b>
Prof. (Dr.) Maithili Ganjoo	Regional Language Television in India	Broken Language Fractured Identities: Role and Relevance of Kashmiri Language Broadcasts	NA
Prof. (Dr.) Aman Vats	Regional Language Television in India	Regional Hindi Channels: Origin, Development, and Challenges	NA
Mr. Rahul Joshi	The Post Truth Era: Literature & Media	Fake News: The Hype and the Truth	NA
Mr. Rahul Joshi	NA	An Online Review of the Role of Media & Its Impact on the Common Society during the Corona Virus Disease: A Special Reference to Delhi NCR	Information, Communication & Artificial Network
Dr. Suman Kumari	NA	A Comparative Analysis of Prime Time News of Four Hindi News Channels during the First Wave of Covid-19 Pandemic	Information, Communication & Artificial Network
Dr. Suman Kumari	NA	The Role of Gender in Healthcare Communication: A Study of Primary Health Care Center in Nagaur (Rajasthan)	Information, Communication & Artificial Network
Dr. Maithili Ganjoo	NA	Duty, Devotion and Domestic – The 3D's of an Ideal Woman: Role of Media In Constructing This Image	Embracing Re-modelling and Transformation: Mapping Breakthrough Innovations (ISBN : 978-93-90154-93-7) January 2021
Dr. Manisha Rathaur	NA	Covid 19 and Role of Indian Media During Pandemic	Embracing Re-modelling and Transformation: Mapping
			Breakthrough Innovations (ISBN : 978-93-90154-93-7) January 2021



## 2. 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 Post-Modern Literature
- UG and PG programs running with a robust and extensive syllabus.

### ii) Academic Achievements:

#### a. Student's Publications: 2020-21

Title of paper	Name of all the author/s	Student Authors	Journal/Conference/Book Title
Fragmentation of the India Society: An Analysis of Untouchable Coolie, and Movie Dhadak	Tahmina habibi & Shivani Vashist	Tahmina habibi	The Creative Launcher: an international, Open access, Peer reviewed and Refreed e-journal in English Vol. V & issue I (April 2020)
Hypocrisy of Higher Class and Untouchability through Eyes of Mulk Raj Anand.	Ambika Choudhary & Shivani Vashist	Ambika Choudhary	The Creative Launcher: An International, Open access, Peer Reviewed and Refreed e-journal in English Vol. V & issue I (April 2020)
Mythological Reading of Tess of the D'Urbervilles	Bhumika Sihag and Jyoti Sharma	Bhumika Sihag	International Conference on "Women's Empowerment, Laws, Feminism, Gender Discrimination, Gender Space and Women's Leadership: Issues and Challenges in 21st Century", organized by (Naareevaad - 2019), Jawaharlal Nehru University on 9th November, 2019.
Greek Mythology in English Romantic Poetry	Akansha Raghav and Jyoti Sharma	Akansha Raghav	The Creative Launcher: An International, Open access, Peer Reviewed and Refreed e-journal in English Vol. V & issue I (June 2020)

Diasporic Consciousness in The Namesake by Jhumpa Lahiri	Shivani Bashist and Jyoti Sharma	Shivani Bashist	The Creative Launcher: An International, Open access, Peer Reviewed and Refreed e-journal in English Vol. V & issue I (June 2020)
Philosophy of Nature and Mysticism in the Poetry of William Wordsworth	Divya Bhardwaj & Swati Chauhan Divya Bhardwaj	Divya Bhardwaj	The Creative Launcher: An International, Open access, Peer Reviewed and Refreed e-journal in English Vol. V & issue I (April 2020)
A Critical Analysis of Mythology and Religion in T.S Eliot's Poetry	Vaishali Sharma & Swati Chauhan	Vaishali Sharma	KALA : The Journal of Indian Art History Congress
Studying Virginia Woolf's "Shakespeare's Sister" as an Epitaph on Crushed Talents of the Woman'.	Muskan Goel & Sujata	Muskan Goel	International Journal of Research and Analytical Reviews
A Comparative Study of Mother-Son Relationship in Oedipus the King and Sons and Lovers	Anshu Sharma & Sujata	Anshu Sharma	International Journal Of Research And Analytical Reviews
The Saga of Two Fallen Heroes: Establishing Parallel between Shakespeare's Macbeth and the Biblical Adam	Sakshi Garg & Sujata	Sakshi Garg	International Journal of Scientific Research and Engineering Development
Andragogical and Pedagogical Practices	Mercy, Namrata and Tripti	Mercy and Namrata	International Journal of Scientific Research and Engineering Development

**b. Students benefited by career counseling and guidance for competitive Examinations: 2020-21**

Activity Description	No. of Participants
Career Counselling Session on "Resume Writing"	34
Career Counseling Session on "Career Options in English"	40

**c. Students' progression to higher education in percentage during the year:  
2020-21**

<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>
Abhinav Kaushal	BA (H) English	Indira Gandhi National Open University	Master of Arts (English)
Kanika Bhatia	BA (H) English	Goethe-Institute, New Delhi	Language Course
Megha Chopra	BA (H) English	Galgotia College, Noida	MBA
Mrinal Thakral	BA (H) English	DAV Centenary College, Faridabad	Master of Arts (English)
Niyati Kapoor	BA (H) English	Amity University, Noida	M.A. (English)
Uma Nagar	BA (H) English	Indira Gandhi National Open University	Master of Arts (English)
Pragya Saxena	BA (H) English	J C Bose University of Science & Technology, YMCA Faridabad	M.A. (English)
Aman Kakkar	BA (H) English	Manav Rachna International Institute of Research & Studies	Master of Arts (English)
Meenakshi Bhatia	BA (H) English	Manav Rachna International Institute of Research & Studies	Master of Arts (English)
Anirudh Ramakrishnan	BA (H) English	Sri Guru Gobind Singh College of Commerce, Delhi	DBJCC
Anchal Rathee	BA (H) English	Satyam Fashion Institute, Noida	Post Graduate - Fashion Design
Preeti Kumari	BA (H) English	DAV Centenary College, Faridabad	Master of Arts (English)
Ritika Chauhan	BA (H) English	Institute of Management & Technology, Faridabad	MBA



Shivani Ailawadi	BA (H) English	GCW Sector-14 Gurugram	Master of Arts- English
Shivani Patankar	BA English	MA Eng	MRIIRS
Sunita Kumari	BA English	MA Eng	MRIIRS
Pinky Kharata	BA English	PG-JMC	Jagannath community college
Bharti	BA English	MA English	G C College Faridabad
Sukriti Arora	BA English	Language Course	Mosai Institute of Japanese Language
Garima Rajput	BA English	MA Eng	YMCA University
Varnika Chopra	BA English	MBA	IMT

#### d. FDPs attended by Faculty Members:2020-21

Name of Faculty Member	FDP/Workshop/Conference Attended	Date From	Date To
Shivani Vashist	NPTEL FDP on Effective Writing	02-01-2021	01-02-2021
Shivani Vashist	ATAL FDP on "Life Skills for Blissful Life" at Centre for Life Skills & Soft Skills (CLAS)	07-06-2021	11-06-2021
Shivani Vashist	FDP on Research Methodology, Data Analytical ICT Tools & Techniques	17-12-2020	24-12-2020
Jyoti Sharma	Coursera Course on Creative Writing: The Craft of Plot	09-09-2020	08-10-2020
Jyoti Sharma	Coursera Course on Creative Writing: The Craft of Style	20-09-2020	18-10-2020
Jyoti Sharma	Coursera Course on Creative Writing: The Craft of Character	23-09-2020	22-10-2020
Jyoti Sharma	Coursera Course on Creative Writing: The Craft of Setting	25-10-2020	23-11-2020
Jyoti Sharma	International Conference on Rethinking Literature: Texts and Contexts	25-09-2020	27-09-2020
Jyoti Sharma	FDP on Research in Virtual World	01-09-2020	07-09-2020
Jyoti Sharma	Workshop on Effective Research Paper Writing & Publishing Aspects	06-07-2020	17-07-2020
Swati Chauhan	FDP on Research in Virtual World	01-09-2020	07-09-2020
Swati Chauhan	International Conference on 'Gender Studies and Women Empowerment', National Institute of Technology, Agartala	16-04-2021	18-04-2021
Swati Chauhan	Seven Day FDP on 'NAAC Accreditation Framework and Quelling the Quest' at Aggarwal	11-03-2021	17-03-2021

	College, M. D. University		
Swati Chauhan	ATAL FDP on "Life Skills for Blissful Life" at Centre for Life Skills & Soft Skills (CLAS)	07-06-2021	11-06-2021
Tripti Tyagi	FDP on Transforming Governance in India: Issues & Concerns	21-09-2020	27-09-2020
Tripti Tyagi	NPTEL Certification on Feminist Writings	01-09-2020	30-12-2020
Tripti Tyagi	FDP on Research in Virtual World	01-09-2020	07-09-2020
Jayashree Hazarika	FDP on Research in Virtual World	01-09-2020	07-09-2020
Jayashree Hazarika	FDP on Imparting Soft Skills and Life skills for Success	17-08-2020	22-08-2020
Jayashree Hazarika	ATAL FDP on "Life Skills for Blissful Life" at Centre for Life Skills & Soft Skills (CLAS)	07-06-2021	11-06-2021
Sujata	Faculty Development Program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021
Suchitra Vashisth	Faculty Development Program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021
Suchitra Vashisth	International Virtual Conference on Pandemic Humanity & Education	29-10-2020	31-10-2020

**e. Events Organized: 2020-21**

<b>Title</b>	<b>From Date</b>	<b>To date</b>
7 day FDP on Research in Virtual World in association with Cape Comorin Trust, Grand Academic Portal of India and Lavender Literary Club	01-09-2020	07-09-2020
International Webinar on Eco-literature and Pandemic	12-04-2020	12-04-2020
International Conference on "Mythology: Past, Present and Future" in association with Cape Comorin Trust and Lavender Literary Club	29-01-2021	30-01-2021

<b>Board of Faculty</b>			
1	Dr. Chavi Bhargava Sharma	Professor & Dean, FMeH	Chairperson
2	Dr. Shivani Vashist	Professor & Head, Dept. of English	Member
3	Mr. Manoj Raut	Associate Professor & Head, Dept. of Journalism and Mass Communication	Member
4	Dr. Maithili Ganjoo	Professor & Director - FMeH	Member
5	Dr. Sujata	Associate Professor, Dept. of English	Member
6	Dr. Suman Kumari	Associate Professor, Dept. of Journalism and Mass Communication	Member
7	Dr. Jayashree Hazarika	Assistant Professor, Dept. of English	Member
8	Mr. Gaurav Shukla	Assistant Professor, Dept. of Journalism and Mass Communication	Member
9	Mr. Nirmallaya Roy Chowdhury	CEO, Radicle Brand Asset Creation, New Delhi	External Member
10	Prof. Anup Beniwal	University School Humanities and Social Sciences, GGSIP University Dwarka, Delhi	External Member

<b>Board of Studies-Journalism and Mass Communication</b>			
1	Mr. Manoj Raut	Associate Prof. & Head, Dept. of Journalism & Mass Communication.	Chairperson
2	Dr. Maithili Ganjoo	Prof. & Director-FMeH.	Member
3	Dr. Suman Kumari	Associate Professor, Dept. of Journalism & Mass Communication	Member
4	Dr. Abhishek Kumar Singh	Associate Professor, Dept. of Journalism & Mass Communication	Member
5	Mr. Gaurav Shukla	Assistant Professor, Dept. of Journalism & Mass Communication	Member
6	Ms. Mitali Mohanty	Assistant Professor, Dept. of Journalism & Mass Communication	Member
7	Dr. Anand Pradhan	Professor, IIMC, New Delhi Mobile No. 9818305418	Member
8	Dr. Nirmallaya Roy Chowdhury	CEO, Radicle Band Asset Creation, New Delhi Mobile No. 9899246070	Member



<b>Board of Studies-English</b>			
1	Dr Shivani Vashist	Professor and Head-Dept of English	Chairperson
2	Dr Maithili Ganjoo	Professor & Dean, FMeH	Member
3	Dr Jyoti Sharma	Associate Professor, Dept of English	Member
4	Dr Sujata	Associate Professor, Dept of English	Member
5	Dr Jayashree Hazarika	Assistant Professor, Dept of English	Member
6	Dr Tripti Tyagi	Assistant Professor, Dept of English	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		66

#### List of Faculty Members

Name of the Full-time teacher	Designation	Department
Sanjay Srivastava	Professor	Management
Amit Seth	Professor	Management
Anindita Chatterjee Rao	Professor	Management
Deepti Dabas Hazarika	Professor	Management
Surbhi Kapur	Professor	Management
Bhavesh Prakash Joshi	Professor	Management
Priyanka Singh	Professor	Management
Farhat Mohsin	Professor	Management
Gautam Srivastava	Professor	Management
Amandeep Dhaliwal	Associate Professor	Management
Stuti Sahni	Associate Professor	Management
Meghna Chhabra	Associate Professor	Management
Shilpa Arora	Assistant Professor	Management
Sahil Malik	Assistant Professor	Management
Ridhi Khattar	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:2020-21

Title of paper	Name of all the author/s	Student Authors	Journal/Conference/Book Title
Stroke of Covid-19 on Supply Chain	Shilpa Arora & Neha Bhardwaj	Neha Bhardwaj	Contemporary Issues in Business Management and Information Technology Implications of Covid-19

##### b. Students benefited by career counseling and guidance for competitive Examinations: 2020-21

Activity Description	No. of Participants
Traits Required for Good Career in HR	70
Corporate Interaction on Preparing for Interview for Career Start-Up	65
Session on How to Make Balance between Personal and Professional Life for a Fruitful Career	82
Session on Psychometric Analysis for Career Awareness	72
Panel Discussion on Rethinking Performance Management Post Covid	80
Session on awareness about the Industry Expectation & Career Path	83
Panel Discussion on Career & Life of a MBA from Internship to Corporate Life	88
Webinar on Management Education and its Success in Corporate World	91
Truths about Life and Career	80
Webinar- Countdown To Corporate Careers - Redefining Customer Experience in The Digital Era	82



Countdown to Corporate Careers- Transforming Dreams into Reality	70
Webinar on Hard Truths of Soft Skills	91
Webinar on Career and Business growth	91
Countdown to Corporate Careers- CSR towards Greater Social Conciousness Dreams into Reality	65

**c. Student progression to higher education in percentage during the year: 2020-21**

Name of students enrolled for higher education	Graduated from which Programme	Name of institution joined	Admitted to (Name of Programme)
Anjali Dagar	MBA	Manav Rachna International Institute of Research & Studies	PhD
Mansi Gupta	MBA	Manav Rachna International Institute of Research & Studies	PhD
Krishan Tewatia	MBA	St. Luke College of Education	B.Ed

**d. Faculty members: Awards & Recognitions: 2020-21**

Name of Faculty Member	Awards/Recognition
Dr. Amandeep Dhaliwal	Invited Speaker to deliver Expert Talk on Design Thinking organized by IIMT College of Engineering, Greater Noida. (28.06.2021)
Dr. Stuti Sahni	Invited Speaker to deliver session on Business Innovastion organised by IIMT College of Engineering, Greater Noida. (28.05.2021)
Dr. Stuti Sahni	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)
Dr. Stuti Sahni	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. 08.06.2021
Dr. Stuti Sahni	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)
Dr. Stuti Sahni	Invited Speaker to deliver session on "Human Values and Professional Ethics" in "Training Programme organised by Haryana Institute of Public Administration. (23.06.2021)
Dr. Farhat Mohsin	Invited Speaker for Expert Talk on Gender Sensitization & Women Security and Empowerment organized by ITS Engineering College,

	Greater Noida 23.10.2020
Dr Meghna Chhabra	Session Chair for Track 3 - Management, Commerce, Arts & Humanities (MCAH) in the Global Conference on Impact of Engineering, Science and Management
Dr Meghna Chhabra	Invited as technical session chair. International Conference on Rigor, Relevance and Resilience in Business & Management Research by Symbiosis Institute of Business Management, Hyderabad in association with-College of Business Tennessee Tech University, Cookeville, USA, Manukau Institute of Technology, Auckland, New Zealand, and NWU Business School, North West University, South Africa.
Dr Meghna Chhabra	Delievered a session on "Creativity and Design Thinking" in National Online Faculty Development Programme on Entrepreneurship Development organized by Osmania Technology Business Incubator (OTBI), Osmania University, Hyderabad, Telangana in association with NFED Business Facilitator Forum, National Foundation For Entrepreneurship Development (NFED), Coimbatore, Tamil Nadu.
Dr Meghna Chhabra	Invited as technical session chair. International Conference (NIC'2021) on "Resilience for Sustainability: Revisiting Management Practices and Strategizing for the Future", North Cap University, Gurugram, in association with University of Fraser Valley, Debre Tabor University and MED 24
Dr. Meghna Chhabra	Invited Resource Person in Workshop on Entrepreneurship and Innovation as a Career Opportunity, Alva's Institute of Engg and Technology. (10th Dec 2020)

**e. FDPs attended by Faculty Members: 2020-21**

<b>Name of Faculty Member</b>	<b>Title</b>	<b>From Date</b>	<b>To Date</b>
Stuti Sahni	FDP on Entrepreneuership by DST-NIMAT Scheme	05-10-2020	17-10-2020
Stuti Sahni	Webinar on Research Article Writing and Publication - Advanced Concepts	01-08-2020	05-08-2020
Stuti Sahni	Webinar on PhD End to End Assistance and Guidance	14-08-2020	20-08-2020
Stuti Sahni	ATAL FDP on Structural Equation Modelling"	17-05-2021	21-05-2021
Stuti Sahni	ATAL FDP on Social Enterprise Management	11-06-2021	15-06-2021
Stuti Sahni	FDP on Entrepreneurship Development	24-05-2021	05-06-2021
Amandeep Dhaliwal	FDP on Analytics	17-08-2020	21-08-2020
Amandeep Dhaliwal	STC on Security & Privacy	01-09-2020	05-09-2020
Amandeep Dhaliwal	STTP on Managerial Skills for Academicians & Adminsitrators	05-10-2020	16-10-2020



Amandeep Dhaliwal	FDP on Entrepreneurship Development	05-04-2021	17-04-2021
Amandeep Dhaliwal	ATAL FDP ON "Structural equation modelling"	17-05-2021	21-05-2021
Amandeep Dhaliwal	ATAL FDP on Data analytics for Research	21-06-2021	25-06-2021
Deepti Dabas Hazarika	Capacity Building Workshop on Basics of Research Methodology	17-05-2021	22-05-2021
Deepti Dabas Hazarika	ATAL FDP on Erudition to do Academic Research in Marketing Management: For Publishing in Top-Tier Journals and Doctoral Dissertations	31-05-2021	04-06-2021
Farhat Mohsin	Webinar on Research Article writing and publication-Advanced Concepts	01-08-2020	05-08-2020
Farhat Mohsin	Webinar Phd End to End Assistance and Guidance	14-08-2020	20-08-2020
Farhat Mohsin	FDP on Entrepreneurship by DST-NIMAT Scheme	05-10-2020	17-10-2020
Farhat Mohsin	ATAL FDP on the Master Class-Artificial Intelligence and Deep Learning for Management Faculties	31-05-2021	04-06-2021
Farhat Mohsin	ATAL FDP on Productivity Enhancement	25-01-2021	29-01-2021
Farhat Mohsin	ATAL FDP on Life Skills for Blissful Life	07-06-2021	11-06-2021
Ridhi Khattar	FDP on Entrepreneurship Development	05-04-2021	17-04-2021
Sahil Malik	FDP on Entrepreneurship Development	24-05-2021	05-06-2021
Shilpa Arora	Basics of Research Methodology	17-05-2021	22-05-2021

#### **f. Events Organised: 2020-21**

<b>Title</b>	<b>From Date</b>	<b>To Date</b>
FDP on Big Data and Research	09-09-2020	11-09-2020
Training on Qualitative Research	21-10-2020	23-10-2020
Workshop on Effective Doctor-Patient Communication: An Imperative for Patient Satisfaction	28-10-2020	30-10-2020
Training on Effect of Pandemic on Emerging Adulthood	20-01-2021	22-01-2021
Workshop on Measuring Happiness of University Teachers during Challenging Times	24-03-2021	26-03-2021
FDP on Entrepreneurship Development I	05-04-2021	17-04-2021
FDP on Psychometrics and Scale Development	27-04-2021	29-04-2021
FDP on Entrepreneurship Development II	24-05-2021	05-06-2021



#### g. Faculty Research Publication: 2020-21

Title of paper	Name of the author/s	Name of Journal	Year of publication
Circular Trading: Detection Algorithm Based on Graph Theory	Rajesh K. Tiwari, Sanjay Srivastava & Monika Goel	Design Engineering	2021
Impact of Goods and Service Tax on Tourism Industry with Focus on Tour Operator and Hotel Industry	Rajesh K. Tiwari, Sanjay Srivastava & Monika Goel	International Journal of Mechanical Engineering	2021
Price - An Overhyped Indicator in Tourism	Rajesh K. Tiwari, Sanjay Srivastava & Monika Goel	Natural Volatiles & Essential Oils	2021

#### h. Book Chapters: 2020-21

Name of the teacher	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference /
Bhavesh Prakash Joshi	Talent Management in India: Challenges and Opportunities	Changing Complexion of India Inc. and Talent Management: Discovery and Development	NA
Bhavesh Prakash Joshi	Contemporary Issues in Energy Sector	Mathura Refinery: Edifice of Excellence	NA
Bhavesh Prakash Joshi	Global Competitive Advantage: Concepts, Approaches and Practices (2Vols.)	Crouching Tiger, Beware India: A Case study of South Korean IT Industry"	NA

Bhavesh Prakash Joshi	Strategic Management for Firms in Developing Countries	Manufacturing Strategy in Ferozabad Glass Cluster: A Struggle	10 <sup>th</sup> International Annual Convention
Bhavesh Prakash Joshi	Emerging Trends in Technology Management	Role of IT in Customer Relationship Management with Special Reference to Banking Sector	NA
Bhavesh Prakash Joshi	Amity Management Analyst	Dangee Dums (Case Study)	NA
Bhavesh Prakash Joshi	Indian Financial System Structure of Indian Financial System	Regulations in Financial System	NA
Bhavesh Prakash Joshi	Project Finance	Project Development and Management	NA
Bhavesh Prakash Joshi	Project Finance	Project Feasibility Studies	NA
Bhavesh Prakash Joshi	Project Finance	Project Finance and Commercial Risks	NA
Bhavesh Prakash Joshi	Project Finance	Project Finance and Macroeconomic Risks	NA
Bhavesh Prakash Joshi	Project Finance	Risk Mitigation Methodologies for Projects	NA
Amandeep Dhaliwal	Block chain for Business	Acceptance & Adoption of Blockchain Technology	NA
Sahil Malik	Block chain for Business	Acceptance & Adoption of Blockchain Technology	NA

<b>Board of Faculty</b>			
1	Dr. Nand Lal Dhameja	Professor & Dean, Department of Management Studies	Chairman
2	Dr. Deepti Dabas Hazarika	Professor, Director & Head, Department of Management Studies	Member
3	Dr. Surbhi Kapur	Professor, Department of Management Studies	Member
4	Dr. Priyanka Singh	Associate Professor, Department of Management Studies	Member
5	Dr. Farhat Mohsin	Associate Professor, Department of Management Studies	Member
6	Dr. Amandeep Dhaliwal	Assistant Professor, Department of Management Studies	Member
7	Dr. Stuti Sahni	Assistant Professor, Department of Management Studies	Member
8	Dr. Ajay Kumar Jain	Professor, MDI, Gurgaon	External Member
9	Mr. Manas Sarkar	Ufex Ltd., Noida	External Member

<b>Board of Studies</b>			
1	Dr. Deepti Dabas Hazarika	Professor & Head Dept of Management Studies	Chairman
2	Dr. Sanjay Srivastava	Professor, Department of Management Studies & Vice Chancellor, MRIIRS	Member
3	Dr. Surbhi Kapur	Professor, Department of Management Studies	Member
4	Dr. Bhavesh Prakash Joshi	Professor, Department of Management Studies	Member
5	Dr. Anindita Chatterjee Rao	Professor, Department of Management Studies	Member
6	Dr. Priyanka Singh	Professor, Department of Management Studies	Member
7	Dr. Farhat Mohsin	Professor, Department of Management Studies	Member
8	Dr. Shilpa Arora	Assistant Professor, Department of Management Studies	Member
9	Dr. Stuti Sahni	Assistant Professor, Department of Management Studies	Member
10	Ms. Rachna Aggarwal	Associate Professor, Department of Management Studies, J. C. Bose university of Science & Technology, Faridabad	External Member
11	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		18	

#### Faculty of Hotel Management:

#### List of Faculty Members

Name of the Full-time teacher	Designation	Department
Sushil Kumar Saluja	Professor	Hotel Management
Narender Suhag	Associate Professor	Hotel Management
Ritika Singh	Assistant Professor	Hotel Management
Syed Najmus Saqib	Assistant Professor	Hotel Management
Prachi	Assistant Professor	Hotel Management
Nikita Tomar	Assistant Professor	Hotel Management
Kunal	Assistant 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 for Culinary Competitions.
- Research and Innovation for Faculty and Students.

### **ii) Academic Achievements**

#### **a. Students benefited with career counseling and guidance for competitive Examinations: 2020-21**

<b>Activity Description</b>	<b>No. of Participants</b>
Online Guest Session on Careers in Hospitality	35
Online Guest Session on Hotel Operations – Pre and Post Covid	68
Session on Career Scope in Culinary	16
International Webinar on New Pathways to Cellar Door	59
Careers in Hospitality and the way forward	35

#### **b. FDPs attended: 2020-21**

<b>Name of Faculty Member</b>	<b>Title</b>	<b>From Date</b>	<b>To Date</b>
Narender Suhag	Faculty Development program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021
Ritika Singh	Faculty Development program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021

**c. Events organised: 2020-21**

Title	From Date	To Date
FDP on Trends in Culinary Industry	18-03-2021	18-03-2021

**Board of Faculty-FHM**

1	Prof. S K Saluja	Professor and Dean Department of Hotel Management	Chairperson
2	Ms. Ritika Singh	Assistant Professor, Director-FHM	Member
3	Dr. Narender Suhag	Associate Professor, Head of Department	Member
4	Dr. Nandini Srivastava	Professor, Department of Hotel Management & Director (CDP).	Member
5	Mr. Kunal	Assistant Professor, Department of Hotel Management	Member
6	Ms. Prachi Mor	Assistant Professor, Department of Hotel Management	Member
7	Mr. Neeraj Chandhok	CEO Building Blocks, Customer Services	External Member
8	Mrs. Anita Sood	Senior Lecturer (Retired), Delhi Institute of Hotel Management	External Member

**Board of Studies-FHM**

1	Dr. Narender Suhag	Associate Professor, Head of Department of Hotel Management	Chairperson
2	Prof. S K Saluja	Professor and Dean Department of Hotel Management	Member
3	Dr. Nandini Srivastava	Professor, Department of Hotel Management & Director (CDP)	Member
4	Ms. Prachi Mor	Assistant Professor, Department of Hotel Management	Member
5	Mr. Kunal	Assistant Professor, Department of Hotel Management	Member
6	Ms. Sakshi Chhabra	Director of Sales, Vivanta by Taj, Surujkund, Faridabad	External Member
7	Ms. Aarti Agnihotri	Training and Quality Manager, Holiday Inn Express, Noida, Uttar Pradesh	External Member
4	Ms. Ritika Singh	Assistant Professor, Director-FHM	Member



### 3.8 FACULTY OF BEHAVIORAL & SOCIAL SCIENCES

#### Department:

- Applied Psychology
- Economics

#### 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	40		37	
	BA (Hons) Economics	10		09	
	Bachelor of Liberal Arts	03		02	
	MA - Applied Psychology		10		10
	MA - Economics		06		05

#### Faculty of Behavioral & Social Sciences

#### List of Faculty Member Details:

Name of the Full-time teacher	Designation	174	Department
Nandini Srivastava	Professor		Applied Psychology
Chavi Bhargava Sharma	Professor		Applied Psychology
N.K. Chadha	Professor		Applied Psychology
Kaushlendra Mani Tripathi	Associate Professor		Applied Psychology
Jayant P V Sundaresan	Associate Professor		Applied Psychology
Vimanshi Solanki	Assistant Professor		Applied Psychology
Ashish Kumar	Assistant Professor		Applied Psychology
Nandini Biswas	Assistant Professor		Applied Psychology
Swati	Assistant Professor		Applied Psychology
Bhavyanshi Gupta	Assistant Professor		Applied Psychology
Mitakshara Medhi	Assistant Professor		Applied Psychology
Shatarupa Chakraborty	Assistant Professor		Applied Psychology
Charu Tayal	Assistant Professor		Applied Psychology
Puja Chopra	Assistant Professor		Applied Psychology
Raghunandan Reddy	Assistant Professor		Applied Psychology
Garima Tuli	Assistant Professor		Applied Psychology

Preeti Singh	Associate Professor	Economics
Durairaj Kumarasamy	Associate Professor	Economics
Priya Vij	Associate Professor	Economics
Nimai Dass	Associate Professor	Economics
Shaveta Sachdeva	Assistant Professor	Economics
Sunando Basu	Assistant Professor	Economics
Anandajit Goswami	Professor	Social and Political Studies
Prashant Chaudhary	Assistant Professor	Social and Political Studies
Pratichi Majumdar	Assistant Professor	Social and Political Studies
Bhavna Kataria	Assistant Professor	Social and Political Studies



## 1. DEPARTMENT OF APPLIED PSYCHOLOGY

### i) Thrust Area

- Counselling
- Research
- Training

### ii) Academic Achievement:

#### a. Student's Publications: 2020-21

Title of paper	Name of all the author/s	Student Authors	Journal / Conference /Book Title
Psychological Well-being, Life Satisfaction, Gratitude and Marital Satisfaction among Adults	Sakshi Kaushik	Sakshi Kaushik	International Journal of Research Publication and Reviews

#### b. Student progression to higher education in percentage during the year: 2020-21

Name of students enrolled for higher education	Graduated from which Programme	Name of institution joined	Admitted to (Name of Programme)
Ayushi Srivastava	BA Psy	Gautam Buddha University, Uttar Pradesh	M.A./M.Sc. (Applied Psychology)
Diti Tiwari	BA Psy	Christ University	MSc Clinical Psychology
Jessica Chawla	BA Psy	Manipal University Jaipur	M.Sc (Clinical Psychology)
Jyoti Singh	BA Psy	Amity University	M.A. Counseling Psychology
Kashish	BA Psy	CMR University	Master of Science (Psychology)
Komal Nagar	BA Psy	Guru Gobind Singh Indraprastha University, Delhi	B.ED (Spl. Ed.) (Intellectual Disability)
Mansi Kaushik	BA Psy	SGT University Gurgaon	Master of Science (Psychology)
Nandani Arora	BA Psy	CHRIST University	MPCL
Nikita Bhardwaj	BA Psy	Dev Sanskriti Vishwavidyalaya	M.Sc in Clinical Psychology
Pragya Khari	BA Psy	Amity University, Noida	PG Diploma in Counseling Psychology
Srishti Chhabra	BA Psy	Christ University	M Sc Counseling Psychology



Toolika Bakshi	BA Psy	Indira Gandhi National Open University	PG Diploma in Counseling & Family Therapy
Apurva	BA Psy	CMR University	M. Sc in Clinical Psychology
Ashna Arora	BA Psy	CHRIST University	MSc Psychology
Janvi	BA Psy	Guru Jambheshwar University of Science & Technology, Hisar	MSc Psychology
Riya Bansal	BA Psy	SGT University, Gurgaon	Master of Science (Psychology)
Rupali Sharma	BA Psy	Amity University, Noida	M.A. (Counselling Psychology)
Leen Verma	BA Applied Psychology	St Clair College	MA (Applied Psychology)
Nitika Rabra	BA Applied Psychology	MRIIRS	MA (Applied Psychology)
Sneha Singhal	BA Applied Psychology	Amity University	MA (Applied Psychology)
Medhawini Makkar	BA Applied Psychology	Banasthali Vidyapeeth	MA (Applied Psychology)
Bahniman Boruah	MA Applied psychology	University of Kent	MA (Applied Psychology)

#### c. Faculty Members: Awards & Recognitions: 2020-21

Name of Faculty Member	Awards/Recognition
Shatarupa Chakraborty	Invited Lecture (Webinar) organized by NSS: Daulat Ram College, DU on the topic of Change in Representation of Mental Illnesses over Time 10.04.2021

#### d. FDPs attended by Faculty Members: 2020-21

Name of Faculty Member	Title of Event	Date From	Date To
Shatarupa Chakraborty	Faculty Development Program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021
Jayant PV Sunderesan	Faculty Development Program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021

Swati	Design e-course with Canvas-LMS for 21st Century Learner	11-09-2020	17-09-2020
Swati	Design e-course with Canvas-LMS for 21st Century Learner	24-09-2020	01-10-2020
Swati	Innovative Teaching Learning Practices for 21st Century Learner- 40hrs Workshop	28-08-2020	03-10-2020
Prashant Chaudhary	Faculty Development Program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021

## 2. DEPARTMENT OF ECONOMICS & SOCIAL AND POLITICAL STUDIES

### i) Thrust Area

- Research
- Development and Consultancy

### ii) Academic Achievement:

#### a. Student progression to higher education in percentage during the year: 2020-21

Name of students enrolled for higher education	Graduated from which Programme	Name of institution joined	Admitted to (Name of Programme)
Abhijay Singh	BA (Eco)	Delhi Technological University	MBA
Dev Sharma	BA (Eco)	Amity University, Noida	MBE
Harshita Miglani	BA (Eco)	Indira Gandhi National Open University	MA (Economics)
Anchal Bhatia	BA (Eco)	CGC College of Engineering, Mohali	MBA
Charu Bhatia	BA (Eco)	Institute of Information Technology & Management, Delhi	MBA
Robin Khan	BA (Eco)	G.D Goenka, Gurugram	MA Economics

#### b. FDPs attended by Faculty Members: 2020-21

Name of Faculty Member	Title of Event	Date From	Date To
Priya Vij	Faculty Development Program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021
Preeti Singh	Faculty Development Program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021
Anandajit Goswami	Faculty Development Program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021

#### Board of Faculty-FBSS

Board of Faculty – Faculty of Behavioral and Social Sciences (29-06-2021)			
1	Dr. Chavi Bhargava Sharma	Professor ED & Dean FBSS	Chairperson
2	Dr. Anandajit Goswami	Associate Professor Dept. of Social and Political Studies	Member
3	Dr. Duralraj Kumarasamy	Associate Professor Dept. of Economics	Member
4	Dr. Shatarupa Chakraborty	Assistant Professor Dept. of Psychology	Member
5	Dr. Bhavna Kataria	Assistant Professor Dept. of Social and Political Studies	Member
6	Dr. Avinash Kumar	Associate Professor Dept. of Psychology Delhi University, New Delhi	External Member
7	Dr. Amulya Gurtu	Head of External Relations University, Wisconsin, Green Bay	External Member



### Board of Studies – Applied Psychology

1	Dr. K. M. Tripathi	Associate Prof & Head Dept. of Psychology	Chairman
2	Dr. Chavi Bhargava Sharma	Professor Dept. of Psychology (Dean FBSS)	Member
3	Dr. Anandajit Goswami	Associate Professor Dept. of Social & Political Studies	Member
4	Dr. Nandini Biswas	Assistant Professor Dept. of Psychology	Member
5	Mr. Jayant Sundaresan	Assistant Professor Dept. of Psychology	Member
6	Dr. Avinash Awasthi	Scientist "D" DIPR (DRDO) New Delhi	External Member
7	Dr. Harpreet Bhatia	Associate Professor, University of Delhi, Delhi	External Member

### Board of Studies - Economics

1	Dr. Nimai Das	Associate Professor & Head Dept. of Economics	Chairman
2	Dr. Anil Sarin	Professor, Business & Management Studies	Member
3	Dr. Anandajit Goswami	Associate Professor Dept. of Social & Political Studies	Member
4	Dr. Shaveta Sachdeva	Assistant Professor Dept. of Economics	Member
5	Dr. Priya Vij	Assistant Professor Dept. of Economics	Member
6	Dr. Swadhin K Mondal	Dept. of Economics & Finance, University of Nizwa, Oman	External Member
7	Dr. Sandeep Sharma	Health Economist, NHSRC, NHM (MoH & FW) New Delhi	External Member

### Board of Studies - Social and Political Studies

1	Dr. Anandajit Goswami	Associate Professor & Head Dept. of Social and Political Studies	Chairman
2	Dr. Chavi Bhargava Sharma	Professor, Dept. Psychology (Dean FBSS)	Member
3	Dr. K. M. Tripathi	Associate Prof. & Head Dept. of Psychology	Member
4	Dr. Prashant Chaudhary	Assistant Professor Dept. of Social and Political Studies	Member
5	Dr. Pratichi Majumdar	Assistant Professor Dept. of Social and Political Studies	Member
6	Dr. Nitya Nanda	Director Council for Social Dept., New Delhi	External Member
7	Dr. Saransh Sugandh	Film Maker, Director 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		18	
	B. Design	30		3	
	B.Sc.- Interior Design	15		13	
	M.Sc.- Interior Design		10		09

**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 in percentage during the year: 2020-21

Name of students enrolled for higher education	Graduated from which Programme	Name of institution joined	Admitted to (Name of Programme)
Prachi Aggarwal	BSc ID	MBA	Delhi College of Technologies & Management
Simran Bhatia	BSc ID	Business Management	Fanshawe College, London
Neha Wadia	B Arch	M.Tech/M.Arch/M.Plan	Indian Institute of Engineering Science & Technology, Hibpur, District Howrah



**b. Faculty members: Awards & Recognitions: 2020-21**

<b>Name of Faculty Member</b>	<b>Awards/Recognition</b>
Sanjeev Gupta	Letter of Appreciation – Invited Resource Person for a Webinar on "Opportunities for Architects in Defence and Journey of Architect from Defence", School of Architecture, Planning and Design, ITM University, Raipur, Chhattisgarh. (12.09.2020)
Sanjeev Gupta	Letter of Appreciation – Invited Resource Person for a Webinar on "Architects Journey from Defense services to Academics", Royal School of Architecture, Royal Global University, Guwahati. (12.09.2020)

**c. FDPs attended by Faculty Members: 2020-21**

<b>Name of Faculty member</b>	<b>Title of Event</b>	<b>Date From</b>	<b>Date To</b>
Smriti Saigal	Coursera certification on Healing with the Arts	18-08-2020	15-09-2020
Smriti Saigal	Coursera certification on Introduction to Psychology	17-08-2020	14-09-2020
Smriti Saigal	Coursera certification on COVID-19 - What you need to know?	07-09-2020	14-09-2020
Smriti Saigal	Coursera certification on A life of Happiness & Fulfilment	16-09-2020	10-08-2020
Shabeena	Coursera certification on High Impact Business Writing	08-09-2020	06-10-2020
Shabeena	Coursera certification on Innovation Management	06-07-2020	11-08-2020
Shabeena	Faculty Development program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021
Nida Hasan	Coursera certification on Fundamentals of Graphic Design	26-06-2020	05-07-2020
Nida Hasan	Coursera certification on use of Canvas to Design Digital Course Collateral	29-06-2020	05-07-2020
Nida Hasan	Faculty Development Program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021
Anika Singh	Coursera certification on the Sustainable Development Goals – A Global, Transdisciplinary vision for the Future	15-05-2020	06-07-2020

Sanjay Kumar Surya	Faculty Development Program on Quality Teaching Learning and Mentoring Processes during Pandemic	01-02-2021	05-02-2021
Sanjay Kumar Surya	Coursera certification on Introduction to Public Speaking	07-07-2020	10-08-2020
Sanjay Kumar Surya	Coursera certification on Visual Elements of User Interface	22-06-2020	20-07-2020
Sanjeev Gupta	Coursera certification on Climate change and Water in Mountains: A Global concern	21-07-2020	25-08-2020
Sanjeev Gupta	Coursera certification on Driving Business towards the sustainable Development Goals	20-07-2020	23-08-2020
Sanjeev Gupta	Coursera certification on Green Business Strategy	15-07-2020	08-11-2020
Sanjeev Gupta	Coursera certification on the Sustainable Development Goals – A global, transdisciplinary vision for the future	18-07-2020	08-09-2020
Sanjeev Gupta	Coursera certification on the changing Landscape of Ancient Rome Archaeology & History of the Palatine Hill	12-07-2020	27-07-2020
Sanjeev Gupta	Coursera certification on Asian Environmental Humanities: Landscapes in Transition	22-06-2020	20-07-2020
Sanjeev Gupta	Coursera certification on Management of Urban Infrastructures – Part 1	15-06-2020	19-07-2020
Sanjeev Gupta	Coursera certification on Introduction to Sustainability	20-06-2020	18-07-2020
Sanjeev Gupta	Coursera certification on Global Environmental Management	20-06-2020	18-07-2020

#### Board of Faculty

1	Prof. (Col) Sanjeev Gupta	Prof. & Dean	Chairperson
2	Prof. Sanjay Kumar Surya	Professor & HOD	Member
3	Ms. Smriti Saigal	Asst. Prof.	Member
4	Prof. Manoj Mathur	Professor	External Member
5	Dr. Neeraj Lugani Sethi	Professor	External Member

#### Board of Studies

1	Prof. Sanjay Kumar Surya	Prof. & HOD	Chairman
2	Prof. (Col) Sanjeev Gupta	Prof. & Dean	Member
3	Prof. Dinesh Bhardwaj	Professor	Member
4	Ms. Shabeena	Asst. Professor	Member
5	Ms. Smriti Saigal	Asst. Professor	Member
6	Dr. Neeraj Lugani Sethi	Professor	External Member
7	Prof. Manoj Mathur	Professor	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	53
	MDS	15	15

##### Faculty Member Details:

#### FACULTY OF DENTAL SCIENCE (FDS)

Name of the Full-time teacher	Designation	Department
Arundeeep Singh	Professor	Conservative Dentistry
Sucheta Jala	Lecturer	Conservative Dentistry
Garima	Lecturer	Conservative Dentistry
Varsha Jain	Lecturer	Conservative Dentistry
Tushar kohli	Lecturer	Conservative Dentistry
Vikas Swami	Lecturer	Conservative Dentistry
Suvidh Virmani	Lecturer	Conservative Dentistry
Mansi Nautiyal	Lecturer	Prosthodontics
Shrey Kundra	Lecturer	Prosthodontics
Ojasvi Nijhawan	Lecturer	Prosthodontics
Reena Roy Rassawat	Lecturer	Prosthodontics
Surbhi Malhotra	Lecturer	Prosthodontics
Abhita Malhotra	Lecturer	Orthodontics
Yatin Bajaj	Lecturer	Orthodontics
Puneet Mohan Khari	Lecturer	Pedodontics
Karishma Chhabra	Lecturer	Pedodontics
Anchal Varshney	Lecturer	Oral Pathology
Hitesh	Lecturer	Oral Pathology
Shruti Saini	Lecturer	Periodontology
Shetal Gupta	Lecturer	Periodontology
Karunik Gupta	Lecturer	Periodontology
Tamanna Soni	Lecturer	Oral Medicine& Radiology
Akanksha Monga	Lecturer	Public Health Dentistry
Gargi Madiwale	Lecturer	Oral Surgery
Sohel Sikdar	Lecturer	Physiology



Aman Sundhir	Lecturer	Physiology
Souvik kar	Lecturer	Microbiology
Vineet	Lecturer	Microbiology
Gagan Sandhir	Lecturer	Microbiology
Hafiz Kalam Uddin	Lecturer	Pharmacology
Mahesh	Lecturer	Pharmacology
Ratnesh Jaiswal	Lecturer	Biochemistry
Madhu Kumari	Lecturer	Pharmacology
Adleena Asna	Lecturer	Biochemistry
Dheeraj	Lecturer	Pharmacology
Rajesh Bhalla	Lecturer	General Pathology
Laishraam Subhasini Devi	Lecturer	General Pathology
Sakshi Jaiswal	Lecturer	Human Anatomy
Div Bhargava	Lecturer	Human Anatomy
Anshu Bhargav	Lecturer	Human Anatomy
Lekh Ram	Lecturer	Human Anatomy
Kamal Satyarthi	Lecturer	Human Anatomy
Gurfanaktar Nomani	Lecturer	Human Anatomy
Mrinal Arora	Lecturer	General Surgery
Jaswinder Kaur	Lecturer	General Surgery
Vikrant Solanki	Lecturer	General Surgery
Satnam Singh Rana	Lecturer	General Medicine
Swati Anghotra	Lecturer	General Medicine
Rajkumar Vividsana Singh	Lecturer	General Medicine
Sunny	Lecturer	General Medicine
Himanshu Goyal	Lecturer	Anesthesia
Dax Abraham	Professor	Conservative Dentistry
Pankaj Dhawan	Professor	Prosthodontics
Piyush Tandan	Professor	Prosthodontics
Sridhar Kannan	Professor	Orthodontics
Puneet Batra	Professor	Orthodontics
Nitin Arora	Professor	Orthodontics
Ashish Kumar Singh	Professor	Orthodontics
Shveta Sood	Professor	Pedodontics
Naresh Sharma	Professor	Pedodontics
Shivani Aggarwal	Professor	Oral Pathology
Manish Bhargav	Professor	Oral Pathology
Pooja Palwankar	Professor	Periodontology
Sumit Bhateja	Professor	Oral Medicine & Radiology
Meena Jain	Professor	Public Health Dentistry
Anupama V. Betigeri	Professor	Physiology
Anjana Goyal	Professor	Biochemistry
Reena Doomra	Professor	Pharmacology

Savita Bansal	Professor	General Pathology
Alpa Gupta	Reader	Conservative Dentistry
Harsimran Kaur	Reader	Prosthodontics
Shivam Singh Tomar	Reader	Prosthodontics
Divyesh Mehta	Reader	Prosthodontics
Akshara	Reader	Pedodontics
Ruchi Pandey	Reader	Periodontology
Nipun Dhalla	Reader	Periodontology
Lipika Gopal	Reader	Periodontology
Nisha Yadav	Reader	Public Health Dentistry
Ashim Aggarwal	Professor	Oral Surgery
Amit Mohan	Reader	Oral Surgery
Kumar Rakshak Anand	Reader	Oral Surgery
Shakila Mahesh	Reader	Microbiology
Alpana Goel Kesar	Reader	Human Anatomy
Midur Kumar Sharma	Reader	General Surgery
M.Y. Shareef	Professor	General Surgery
Pratul Priyadarshini	Reader	General Medicine
Manju Singh	Reader	Anesthesia



## i) Academic Achievements

### a. Student's Publications: 2020-21

Title of paper	Name of all the author/s	Student Authors	Journal/Conference/Book Title
Oral Changes in Dermatological Conditions, Diagnosis & Treatment	Hassan SA, Bhateja S, Arora G	Shaik Ali Hassan	International Journal of Dental Sciences
Orofacial Clefts in Children and its Management	Hassan SA, Bhateja S, Arora G	Shaik Ali Hassan	IP International Journal of Medical Pediatrics and Oncology
Dental Care of Pediatric Cancer Patients	Hassan SA, Bhateja S, Arora G	Shaik Ali Hassan	IP International Journal of Medical Paediatrics and Oncology
Digital Radiography	Hassan SA, Bhateja S, Arora G	Shaik Ali Hassan	IP International Journal of Maxillofacial Imaging
Alzheimers Disease - A Review	Hassan SA, Bhateja S, Arora G	Shaik Ali Hassan	The Journal of Community Health Management
Corona Virus Managing Strategies - An Update	Hassan SA, Bhateja S, Arora G	Shaik Ali Hassan	Journal of Oral Medicine, Oral Surgery, Oral Pathology and Oral Radiology
Can Favipiravir Help in Coronavirus Treatment?	Hassan SA, Bhateja S, Arora G	Shaik Ali Hassan	IP International Journal of Comprehensive and Advanced Pharmacology
Genetics & Oral Health	Sachdeva A, Malhotra T, Bhateja S	Akshat Sachdeva, Tanya Malhotra	International Journal of Oral Health Dentistry
PPE Kits Causing Skin Problems and Ways to Prevent	Hassan SA, Bhateja S, Arora G	Shaik Ali Hassan	International Journal of Periodontology and Implantology



Remdesivir in Treating Coronavirus Infection	Hassan SA, Bhateja S, Arora G	Shaik Ali Hassan	International Journal of Periodontology and implantology
Biomarkers in Dentin Pulp Complex	Hassan SA, Bhateja S, Arora G	Shaik Ali Hassan	Journal of Pediatrics and Nursing Science
Effect of COVID -19 on Children	Hassan SA, Bhateja S, Arora G	Shaik Ali Hassan	Journal of Pediatrics and Nursing Science
Leukemia in Children	Hassan SA, Bhateja S, Arora G	Shaik Ali Hassan	Journal of Pediatrics and Nursing Science
Smart Materials in Pediatric Dentistry: A Review	Hassan SA, Bhateja S, Arora G	Shaik Ali Hassan	Journal of Pediatrics and Nursing Science
Prevalence of TMJ Disorders- An Institutional Based Study	Sachdeva A, Bhateja S, Arora G, Khanna B, Singh A	Akshat Sachdeva Brinda Khanna, Archika Singh	SRM Journal of Research in Dental Sciences
Latest Advancement in Periodontology	Hassan SA, Bhateja S, Arora G	Shaik Ali Hassan	IP International Journal of Periodontology and Implantology
Use of Probiotics in Dentistry	Hassan SA, Bhateja S, Arora G	Shaik Ali Hassan	IP International Journal of Periodontology and Implantology
Marketing in Dentistry	Hassan SA, Bhateja S, Arora G	Shaik Ali Hassan	Journal of Management Research and Analysis
Effect Globalization on Dentistry	Hassan SA, Bhateja S, Arora G	Shaik Ali Hassan	Journal of Management Research and Analysis
Role of Dentist in Suicide Cases	Hassan SA, Bhateja S, Arora G	Shaik Ali Hassan	Int J Forensic Medicine & Toxicological Sciences
Green Tea in Dentistry	Hassan SA, Bhateja S, Arora G	Shaik Ali Hassan	J of Nutrition, Metabolism & Health Sciences

AIDS in Children and Dental Management	Hassan SA, Bhateja S, Arora G	Shaik Ali Hassan	IP International Journal of Medical Paediatrics and Oncology
Obesity in Children – A Challenge Pediatric Dentist Ignores	Hassan SA, Bhateja S, Arora G	Shaik Ali Hassan	IP International Journal of Medical Paediatrics and Oncology
Problems of Geriatric Patients In Dental Set Up	Hassan SA, Bhateja S, Arora G	Shaik Ali Hassan	Annals of Geriatric Education & Medical Sciences
Analgesics in Dentistry	Hassan SA, Bhateja S, Arora G	Shaik Ali Hassan	IP International Journal of Medical Paediatrics and Oncology
Sports Dentistry	Malhotra T, Sachdeva A, Bhateja S, Arora G	Akshat Sachdeva, Tanya Malhotra	Clinical Dentistry
Potential Role of Lasers in Oral Medicine	Negi P, Kumari P, Negi S, Mahto NK, Bhateja S	Poonam Negi, Pushpa Kumari, Sahil Negi	IOSR -JDMS
Prosthetic Status and Needs among Head and Neck Cancer irradiated Patients Suffering from Xerostomia in Delhi, India.	Sakshi Gupta, Pankaj Dhawan, Piyush Tandan, & Meena Jain	Sakshi Gupta	Indian Journal of Forensic Medicine & Toxicology
Comparative evaluation of T-Loop with different Amount of Pre-Activation Curvatures in Lingual Orthodontics- A Finite Element Study.	Girsa P, Singh AK, Kannan S, Arora N, Malhotra A	Pooja Girsa	Journal of Oral Biology and Craniofacial Research.
Assessment of Patients' Satisfaction with Fixed Partial Denture and its Correlation with Patients' Evaluation of Clinicians.	Khan U, Dhawan P, Tandan P, Jain M	Uswah Khan	Annals of the Romanian Society for Cell Biology
Current Status of the Coronavirus Vaccination Development : A review.	Dawar S, Jain M.	Sameera Dawar	Annals of the Romanian Society for Cell Biology

Evaluation of Temperature Rise in the Pulp during various IPR Techniques: An in vivo study	Banga K., Arora N, Kannan S, Singh AK, Malhotra A	Kiran Banga	Progress in Orthodontics. 2020;21.
BOOK: Applications of FEM in Orthodontics	Pooja Girsra, Nitin Arora, Ashish Kumar Singh	Pooja Girsra	Book ISBN: 978-6203-924404
Botox-A Comprehensive Review and its uses in Dentistry.	Dawar Sameera, Bhargava Riya, Khatoon R, Jain M, Yadav N, Jain V.	Sameera Dawar	Annals of the Romanian Society for Cell Biology
BOOK: Psychological Consideration in Orthodontics	Kiran Banga, Nitin Arora, Ashish Kumar Singh	Kiran Banga	Book ISBN: 978-6203-924411
Mandibular Suction Effective Denture for Severely Resorbed Ridges: A Review	Dogra S, Dhawan P, Tandan P, Tomar S S, Mehta D, Nautiyal M	Shefali Dogra	Journal of Prosthodontics Dentistry
BOOK : Medical Emergencies and management in Dental Office	Ritika Sharma, Nipun Dhalla, Pooja Palwankar	Ritika Sharma	Book ISBN: 978-620-3-92515-9
Oral Changes in Dermatological Conditions, Diagnosis, Treatment	Hassan SA, Bhateja S, Arora G	Shaik Ali Hassan	International Journal of Dental Sciences
Orofacial Clefts in Children and its Management	Hassan SA, Bhateja S, Arora G	Shaik Ali Hassan	IP International Journal of Medical Paediatrics and Oncology
Dental Care of Pediatric Cancer Patients	Hassan SA, Bhateja S, Arora G	Shaik Ali Hassan	IP International Journal of Medical Paediatrics and Oncology
Male Awareness of Menstruation and Menstrual Hygiene in Urban India: Is it Adequate?	Dubey Arti; Yadav Deepti; Bansal Savita; Prakash Manya; Rimjhim Prerna; Faizan Mohammad	Dubey Arti; Yadav Deepti; Prakash Manya; Rimjhim Prerna; Faizan Mohammad	Indian Journal of Health & Wellbeing. Sep2020, Vol. 11 Issue 7-9, p447-451. 5p.



Evaluation of Efficacy of Coenzyme Q10 as an Adjunct to Nonsurgical Periodontal Therapy and its Effect on Crevicular Superoxide Dismutase in Patients with Chronic Periodontitis	Swagat Pranam, Pooja Palwankar, Ruchi Pandey, Anjana Goyal	swagat pranam	European Journal of Dentistry
Influence of Smile and Facial Angulations on Facial Attractiveness: Perceptions of Laypersons, Dentists and Orthodontists	Sweta sarvanan, Sridhar Kannan, Nitin Arora, Ashish Kumar Singh, Abhita Malhotra	Sweta sarvanan	International Journal Of Orthodontic Rehabilitation
Effect of Flapless Surgery on Dental Implant Outcomes: A Review	Sonam Rana, Chirag Sharma, Ashish Verma, Nipun Dhalla, Kavita Bagri, Apoorva Grover and Vidushi Sheokand	Sonam Rana	Journal of Oral Health and Dentistry
Book - Re Exploring Smile in Orthodontics	Sweta sarvanan	Sweta sarvanan	Book ISBN: 978-620-2-92353-8
Time Dependent Oral Microflora Changes in Removable Partial Denture Wear	Tanaya, Dhawan P, Tandan P, Madhukar P, Mahesh S, JainM	Tanaya	Indian Journal of Public Health Research & Development
Attitude, Social Presence, and Satisfaction of Dental Students toward E-Learning - A Cross-Sectional Study from Haryana, India	Shakila Mahesh, Neeru Rani, Anuhska, Rajesh Choudhary, Ishika Chandra and Ankit Kumar	Neeru Rani, Anuhska, Rajesh Choudhary, Ishika Chandra and Ankit Kumar	Indian Journal of Health and Well being
Knowledge, Attitude and Perceptions Towards Covid-19 Vaccines: A Cross-Sectional Study in Delhi-NCR	NA	Kruthiventi Hemalata, Anila Maria Varghese	J Evolution Med Dent Sci 2021;10(33): 2728-2733,

Knowledge, Attitude and Practices of Undergraduate Students Towards Sleep Habits	Anupama V betigeri, 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 wellbeing
Effect of Autologous Platelet Aggregates on the Healing Outcome of Periapical Surgery for the Management of Apico-Marginal Defects: A Systematic Review	Scopus	Mehta N, Gupta A, Aggarwal V, Abraham D, Singh A	Saudi Endod J
Diabetes Mellitus and the Healing of Periapical Lesions in Root Filled Teeth: A Systematic Review and Meta-Analysis;	Pubmed EBSCO Wiley-Blackwell	Gupta A, Aggarwal V, Mehta N, Abraham D, Singh A.	International Endodontic Journal
Comparative Evaluation of the Marginal Fit of Inlays Fabricated by Conventional and Digital Impression Techniques: A Stereomicroscopic Study.	Pubmed Scopus, Web of Science	Sharma A, Abraham D, Gupta A, Singh A, Sharma N.	Contemp Clin Dent
Preoperative Intraligamentary Injection of Dexamethasone can Improve the Anesthetic Success Rate of 2% Lidocaine during the Endodontic Management of Mandibular Molars with Symptomatic Irreversible Pulpitis	Pubmed Web of Science	Aggarwal V, Singla M, Masoud Saatchi, Gupta A, Hasija M, Babita Meena, Kumar U.	Journal of Endodontics
Diagnostic Criteria and Treatment Modalities of Taurodont Teeth Undergoing Root	Scopus	Sreen D, Gupta A, Abraham D, Singh A, Mehta N, Sethi J.	Saudi Endod J

Canal Treatment: A Literature Review of Case Reports and Case Series.			
Effect of Intracanal Cryotherapy on Postendodontic Pain: A Systematic Review and Meta-analysis of Randomized Controlled Trials	Pubmed	Gupta A, Aggarwal V, Gurawa A, Mehta N, Abraham D, Singh A, Jala S, Chauhan N.	J Dent Anesth Pain Med.
Comparative Evaluation of Antibacterial Efficacy of Allium Sativum Extract, Aqueous Ozone, Diode Laser and 3% Sodium Hypochlorite in Root Canal Disinfection: An In vivo Study.	Pubmed Scopus	Mehta N, Gupta A, Mahesh S, Abraham D, Singh A, Jala S, et al.	J Conserv Dent
Comparative Evaluation of Photo activated Disinfection and Sonic Irrigation as an Adjunct to Conventional Irrigation on Enterococcus Faecalis in Root Canals: An In vitro Study.	Scopus	Kohli T, Mehta N, Garima G, Gupta A, Mahesh S, Abraham D, Singh A.	Endodontology
How to Write Systematic Review and Meta-Analysis	Scopus	Aggarwal V, Singla M, Gupta A, Mehta M, Kumar U	Endodontology
Anesthetic efficacy of Primary and Secondary Supplemental Buccal/Lingual Infiltration in Patients with Irreversible Pulpitis in Human Mandibular Molars: A Systematic Review and Meta-Analysis	Pubmed	Alpa Gupta, Aarushi Sahai, Vivek Aggarwal, Namrata Mehta, Dax Abraham, Sucheta Jala, Arundeeep Singh	Journal of Dental Anesthesia and Pain Medicine.
Comparative evaluation of Force required to Fracture Coronal Segments Reattached using different Methods	EBSCO Pubmed	Sereen D, Abraham D, Gupta A, Singh Aggarwal V, Jala S, Chauhan N, Mehta N	Journal of Dental Traumatology



Comparison of Healing Assessments of Periapical Endodontic Surgery using Conventional Radiography and Cone-beam Computed Tomography: A Systematic Review.	Pubmed Scopus	Sharma G, Abraham D, Gupta A, Aggarwal V, Mehta N, Jala S, Chauhan P, Singh A.	Imaging Sci Dent.
Effect of Calcium Hydroxide on Fracture Resistance and Microhardness of Dentin in Human Teeth : A Systematic Review (Abstract)	NA	Simar Sethi, Dax Abraham, Arundeeep Singh, Alpa Gupta	Endodontology
Effect of Calcium Hydroxide Vehicle on Post Operative Pain : A Scoping Review (Abstract)	NA	Kritika Aneja, Alpa Gupta, Dax Abraham, Arundeeep Singh, Parul Chuahan, Sucheta Jala	Endodontology
Comparative evaluation of Fracture Resistance of Reattached Tooth Fragment using Biological Dentin Reinforcement and FRC Post: A Pilot Study (Abstract)	NA	Ansy Hanna Kurian, Alpa Gupta, Dax Abraham, Arundeeep Singh, Parul Chuahan, Sucheta Jala	Endodontology
Endodontic Management of a 3 Rooted mandibular premolar (ABSTRACT)		Garima Sharma, Alpa Gupta, Dax Abraham, Arundeeep Singh, Parul Chuahan, Sucheta Jala	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	Scopus	Mohana P, Abraham D, Gurawa A, Gupta G, Chauhan P, Singh A, Jala S.	Endodontology

Anesthetic Efficacy of Supplemental Intra-Ligamentary injection in irreversible Pulpitis: A Systematic Review and Meta-analysis on Human Mandibular Teeth	Pubmed	Gupta A, Wadhwa J, Aggarwal V, Mehta M, Abraham D, Aneja K, Singh A	Journal of Dental Anesthesia and Pain Medicine
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**b. Students benefited by career counseling and guidance for competitive Examinations: 2020-21**

Activity Description	No. of Participants
Various Courses & Prerequisite for Admission to Different Courses & their Prospects	39

**c. Faculty members: Awards & Recognitions: 2020-21**

Name of Faculty Member	Awards/Recognition
Arundeeep Singh	Treasurer- Indian Endodontic Society. 16.08.2020
Arundeeep Singh	Scientific Moderator- IFEA, 12 <sup>th</sup> IFEA online World Endodontic Congress 2020, India. 23-09-2020 to 26-09-2020
Arundeeep Singh	Invited member for NAAC Peer Team Visit.
Arundeeep Singh	Incharge-Representative to CDE, Indian Dental Association, West Delhi Branch. 27.06.2021
Lipika Gopal	Young Researcher Award 2020 India, International Award of Excellence & Asia Dental Awards 2020 (19.12.2020)
Anupama V Betigeri	Invited Judge for an e-poster Session in V-ICONBAP 2020 , 6th Annual & 1st Virtual International Conference of Basic & Applied Physiology 2020. 5-10-2020 to 7-10-2020
Ruchi Pandey	Second Prize as "Best Scientific Paper Presentation" during 2 <sup>nd</sup> International e-conference on "DNA Forensics" by IASR. 27-02-2021 to 28-02-2021
Sumit Bhateja	Consistent Contributor Award, Innovative Education and Scientific Research Foundation. 03.04.2021
Sumit Bhateja	Best Reviewer Award, Innovative Education and Scientific Research Foundation. 03.04.2021
Shakila Mahesh	Resource Person in Webinar on Black Fungus Role of Dentist, Dept of Public Health Dentistry, Faculty of Dental Sciences, MRIIRS. 24.05.2021
Puneet Batra	Editor of Journal of Indian Orthodontic Society. 2018 onwards
Meena Jain	Most cited article, Innovative Education and Scientific Research Foundation. 03.04.2021
Manish Bhargava	Invited Session chair for the Scientific Session in virtual National Oral Pathology UG summit 2021, SRM Kattankulathur Dental College &

	Indian Association of Oral & Maxillofacial Pathologists. 28-04-2021 to 30-04-2021
Dain D Thomas	Invited Speaker / Chair at National Workshop on Recent Trends in Mechanical and Management, PKG Group of Institutions. 20.02.2021
Arundeeep Singh	Invited Reviewer, Journal of Conservative Dentistry (25.07.2020)

**d. FDPs attended by Faculty Members:2020-21**

<b>Name of the Faculty member</b>	<b>Title of the event</b>	<b>Date From</b>	<b>Date To</b>
Ankur Sharma	FDP on professional Excel Training	23-11-2020	27-11-2020
Nisha Yadav	FDP on professional Excel Training	23-11-2020	27-11-2020
Nipun Dhalla	Online training on SPSS software	21-05-2021	27-05-2021
Shivam Singh Tomar	FDP on Professional Excel Training	23-11-2020	27-11-2020
Lipika	FDP on Professional Excel Training	23-11-2020	27-11-2020
Lipika	Orthodontic Surgical Interface	06-05-2021	06-05-2021
Sucheta Jala	FDP on Professional Excel Training	23-11-2020	27-11-2020
Abhita Malhotra	FDP on Professional Excel Training	23-11-2020	27-11-2020
Rakshak	FDP on Professional Excel Training	23-11-2020	27-11-2020
Gargi	FDP on Professional Excel Training	23-11-2020	27-11-2020
Mansi	FDP on Professional Excel Training	23-11-2020	27-11-2020
Anchal Varshney	FDP on Professional Excel Training	23-11-2020	27-11-2020
Anchal Varshney	2nd International e-Conference on "DNA Forensics" by International Association of Scientists and Researchers	27-02-2021	to 28-02-2021
Anchal Varshney	Oral Cancer E-Conclave Themed 'Intrigues of Oral Cancers' during the month of April 2021 on ICanCaRe sunday live	04-04-2021	25-04-2021



Anchal Varshney	Online training on SPSS software	21-05-2021	27-05-2021
Divyesh Mehta	FDP on Professional Excel Training	23-11-2020	27-11-2020
Akshara Singh	FDP on Professional Excel Training	23-11-2020	27-11-2020
Akshara Singh	28th Congress of International Academy of Pediatric Dentistry	10-06-2021	03-06-2021
Tamanna Soni	FDP on Professional Excel Training	23-11-2020	27-11-2020
Kapila	FDP on Professional Excel Training	23-11-2020	27-11-2020
Sumit Bhateja	Oral cancer E conclave by I can care	04-04-2021	25-04-2021
Sumit Bhateja	International Conference on Fingerprint Analysis	24-04-2021	25-04-2021
Shveta Sood	28th Congress of International Academy of Pediatric Dentistry	06-10-2021	13-06-2021
Naresh Sharma	Oral Cancer E-Conclave by I can care	04-04-2021	25-04-2021
Ashim Aggarwal	Clinico Pathological Perspective of Development Anomalies of teeth	28-02-2021	28-02-2021
Ashim Aggarwal	Virtual Event Laboratory automation 2021	19-05-2021	19-05-2021
Shakila Mahesh	Black Fungus - Role of Dentist	24-05-2021	24-05-2021
Shakila Mahesh	A Dive Into Immunology of COVID 19 Vaccine	11-06-2021	11-06-2021
Savita Bansal	VICHPE	06-04-2021	08-04-2021
Savita Bansal	Publication Ethics	10-4-2021	10-4-2021
Savita Bansal	Publishing Research Articles in Top Journals	11-06-2021	11-06-2021
Anjana Goyal	Publishing Research Articles in Top Journals	11-06-2021	11-06-2021
Pankaj Dhawan	Predictable & Precise Approach in Implant Dentistry	06-07-2021	06-07-2021
Pankaj Dhawan	Contemporary Approaches to manage the emergence programile and redesign soft tissue around Implant" by Dr. Minas D Leventis	11-06-2021	11-06-2021

Piyush Tandan	Predictable & Precise Approach in Implant Dentistry by Sandeep Singh	07-06-2021	07-06-2021
Piyush Tandan	Publishing Research Articles in Top Journals	11-06-2021	11-06-2021
Piyush Tandan	Mucormycosis- A symposium	13-06-2021	13-06-2021
Arundeeep Singh	Black Fungus - Role of Dentist	24-05-2021	24-05-2021
Arundeeep Singh	Comit to Quit	28-05-2021	28-05-2021
Arundeeep Singh	Predictable and Precise Approach in Implant Dentistry	07-06-2021	07-06-2021
Arundeeep Singh	Publishing Research articles in Top Journals	11-06-2021	11-06-2021
Arundeeep Singh	Contemporary Approaches to Manage the Emergence and Redesign Soft Tissue around Implants	11-06-2021	11-06-2021
Arundeeep Singh	Lasers - A Groovy Tool for Modern Periodontal Practice by Dr. Ashank Mishra	15-06-2021	15-06-2021
Arundeeep Singh	Black Fungus - Role of Dentist	24-05-2021	24-05-2021
Arundeeep Singh	Commit to Quit	28-05-2021	28-05-2021
Arundeeep Singh	Predictable and Precise Approach in Implant Dentistry	07-06-2021	07-06-2021
Arundeeep Singh	Publishing Research Articles in Top Journals	11-06-2021	11-06-2021
Arundeeep Singh	Contemporary Approaches to Manage the Emergence and Redesign Soft Tissue around Implants	11-06-2021	11-06-2021
Arundeeep Singh	"Lasers- A Groovy Tool for Modern Periodontal Practice" by Dr. Ashank Mishra	15-06-2021	15-06-2021
Dax Abraham	Black Fungus - Role of Dentist	24-05-2021	24-05-2021
Dax Abraham	Comit to Quit	28-05-2021	28-05-2021
Dax Abraham	Predictable and Precise Approach in Implant Dentistry	07-06-2021	07-06-2021

Dax Abraham	Publishing Research Articles in Top Journals	11-06-2021	11-06-2021
Dax Abraham	Contemporary Approaches to Manage the Emergence and Redesign Soft Tissue Around Implants	11-06-2021	11-06-2021
Dax Abraham	"Lasers- A Groovy Tool for Modern Periodontal Practice" by Dr. Ashank Mishra	15-06-2021	15-06-2021
Alpa Gupta	Black Fungus - Role of Dentist	24-05-2021	24-05-2021
Alpa Gupta	Comit to Quit	28-05-2021	28-05-2021
Alpa Gupta	Predictable and Precise Approach in Implant Dentistry	07-06-2021	07-06-2021
Alpa Gupta	Publishing Research Articles in Top Journals	11-06-2021	11-06-2021
Alpa Gupta	Contemporary Approaches to Manage the Emergence and Redesign Soft Tissue around Implants	11-06-2021	11-06-2021
Alpa Gupta	"Lasers- A Groovy Tool for Modern Periodontal Practice" by Dr. Ashank Mishra	15-06-2021	15-06-2021
Parul Chauhan	Black Fungus - Role of Dentist	24-05-2021	24-05-2021
Parul Chauhan	Commit to Quit	28-05-2021	28-05-2021
Parul Chauhan	Predictable And Precise Approach In Implant Dentistry	07-06-2021	07-06-2021
Parul Chauhan	Publishing Research Articles in Top Journals	11-06-2021	11-06-2021
Parul Chauhan	Lasers- A Groovy Tool For Modern Periodontal Practice" by Dr. Ashank Mishra	15-06-2021	15-06-2021
Nitin Arora	Bulk filling Class II Restorations with Bio Clear by Dr David Clark	23-03-2021	23-03-2021
Nitin Arora	ARRO-C 2K21	24-03-2021	24-03-2021
Nitin Arora	An Introduction to Peer Review	06-02-2021	06-02-2021
Nitin Arora	Good Citation Behavior	06-03-2021	06-03-2021
Nitin Arora	Orthodontic Surgical Interface	06-05-2021	06-05-2021



Nitin Arora	Publishing Research Articles in Top Journals	11-06-2021	11-06-2021
Puneet Batra	Basic Concept of Removable and Fixed Orthodontic Appliances	14-03-2021	14-03-2021
Puneet Batra	Francophone Smile Train Workshop	19-03-2021	19-03-2021
Puneet Batra	JIOS Symposium	30-03-2021	31-03-2021
Puneet Batra	Orthognathic and Orthodontic Surgical Symposium	22-04-2021	22-04-2021
Puneet Batra	Orthodontics. Emerging Technologies and Artificial Intelligence	25-04-2021	25-04-2021
Puneet Batra	Ortho Synergy- Role of Orthodontics in Conjunction with other Dental Specialties	15-05-2021	16-05-2021
Puneet Batra	Root Resorption	30-05-2021	30-05-2021
Puneet Batra	Orthodontic Surgical Interface	06-05-2021	06-05-2021
Puneet Batra	Retention & Relapse	20-06-2021	20-06-2021
Ashish Kumar Singh	Diabetes the Essential Facts	01-12-2021	19-01-2021
Ashish Kumar Singh	ARRO-C 2K21	24-03-2021	24-03-2021
Ashish Kumar Singh	Orthognathic and Orthodontic Surgical Symposium	22-04-2021	22-04-2021
Ashish Kumar Singh	Ortho Synergy 2021	15-05-2021	16-05-2021
Ashish Kumar Singh	Reviewing in the Science	06-03-2021	06-03-2021
Ashish Kumar Singh	Orthodontic Surgical Interface	06-05-2021	06-05-2021
Ashish Kumar Singh	Publishing Research Articles in Top Journals	11-06-2021	11-06-2021
Aditya Talwar	Retention & Relapse	20-06-2021	20-06-2021
Aditya Talwar	Orthodontic Surgical Interface	06-05-2021	06-05-2021

Aditya Talwar	Root Resorption	30-05-2021	30-05-2021
Aditya Talwar	Orthodontics. Emerging Technologies and Artificial Intelligence	25-04-2021	25-04-2021
Anchal Varshney	One Week Online Training Program on Statistical Data Analysis using SPSS Software, organized by Science Tech Institute, Lucknow, Uttar Pradesh	21-05-2021	27-05-2021
Shivani Aggarwal	Clinico Pathological Perspective of Development Anomalies of Teeth	28-02-2021	28-02-2021
Shivani Aggarwal	Oral Cancer E-Conclave themed 'Intrigues of Oral Cancers' during the month of April 2021 on I Can Care Sunday Live	04-04-2021	25-04-2021
Shivani Aggarwal	Botox - Broadening the Horizon of Dentistry	04-08-2021	04-08-2021
Shivani Aggarwal	How to effectively use Science Direct - Read Quality Publish Quality by Elsevier	15-04-2021	15-04-2021
Shivani Aggarwal	4 <sup>th</sup> International eConference on 'Fingerprint Analysis' organised by International Association of Scientist and Researchers	24-04-2021	25-04-2021
Shivani Aggarwal	National Oral Pathology UG summit 2021 - Virtual UG summit held at SRM kattanku lathur Dental College in association with Indian Association of Oral and Maxillofacial Pathologist	28-04-2021	30-04-2021
Shivani Aggarwal	Virtual Event Forensic Sciences 2021 by Lab Roots	05-05-2021	05-05-2021
Shivani Aggarwal	Virtual Event Forensic Sciences 2021 by Lab Roots	19-05-2021	19-05-2021
Shivani Aggarwal	Webinar on Topic "Predictable & Precise Approach in Implant Dentistry "	06-07-2021	06-07-2021
Manish Bhargava	National Online Webinar on "Errors and Power in Biostatistics" organized by Dr. Z. A Dental College & Hospital, Aligarh Muslim University	01-06-2021	01-06-2021
Manish Bhargava	Virtual Meet of the 3 <sup>rd</sup> International Saliva Summit of India (SALSI) 2021 by Indian Academy for Clinical and Dental Genetics	29-01-2021	31-01-2021
Manish Bhargava	Research Methodology	04-05-2021	04-09-2021
Manish Bhargava	Webinar on "Demystifying Salivary Gland Tumours" organized by Dept. of Oral and Maxillofacial Pathology, Faculty of Dental Sciences, Rama University, Kanpur	04-10-2021	04-10-2021

Manish Bhargava	Online Training on SPSS software	21-05-2021	27-05-2021
Manish Bhargava	Introduction to Peer Review	06-03-2021	06-03-2021
Pooja Palwankar	SALSI - 3rd International Saliva Summit	29-01-2021	31-01-2021
Pooja Palwankar	Oral Health and Diabetes	22-05-2021	22-05-2021
Pooja Palwankar	Orthodontic Surgical Interface	06-05-2021	06-05-2021
Pooja Palwankar	Innis free - World Environment Day	06-05-2021	06-05-2021
Pooja Palwankar	Predictable & Precise approach in Implant Dentistry	06-07-2021	06-07-2021
Pooja Palwankar	Publishing research articles in Top Journals	11-06-2021	11-06-2021
Pooja Palwankar	"Lasers - A Groovy Tool for Modern Periodontal Practice" by Dr. Ashank Mishra	15-06-2021	15-06-2021
Ruchi Pandey	SALSI - 3rd International Saliva Summit	29-01-2021	31-01-2021
Ruchi Pandey	Antibiotics in General and Periodontal Practice	30-01-2021	30-01-2021
Ruchi Pandey	Orthodontic Surgical Interface	06-05-2021	06-05-2021
Ruchi Pandey	Predictable & Precise approach in Implant Dentistry	06-07-2021	06-07-2021
Ruchi Pandey	Publishing research articles in Top Journals	11-06-2021	11-06-2021
Ruchi Pandey	"Lasers - A Groovy Tool for Modern Periodontal Practice" by Dr. Ashank Mishra	15-06-2021	15-06-2021

#### e. EVENTS ORGANISED: 2020-21

Title of events	From date	To date
Next Generation Endodontics: Regeneration	06-07-2020	06-07-2020
Professional Excel Training	23-11-2020	27-11-2020
Bulk filling class II Restorations with Bio-clear	23-03-2021	23-03-2021
WCLI Laser Course at MRCDE Module 1	06-05-2021	08-07-2021



## f. Faculty Research Papers: 2020-21

Title of paper	Name of the author/s	Name of journal	Year of publication
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 Metacentric randomized Controlled Trial	Thiruvengkatachari B, Hussain SA, Batra P, Vijayakumar C, Pratha PC	Trials	2021
Rise and Exacerbation of Oral Lichen Planus in the Background Of Sars-Cov-2 Infection	Sood A, Raghavan S, Batra P, Sharma K, Talwar A	Medical Hypotheses	2021
Post-COVID-19 Orthodontics: Are We Staring at Stratification or Collaboration amongst Professionals?	Batra P	Journal of Indian Orthodontic Society	2021
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.	The Cleft Palate-Craniofacial Journal	2021
Should We Mind the Knowledge and Skill Gap COVID-19 Has Created?	Batra P	Journal of Indian Orthodontic Society	2021
Association of IL-1B Gene Polymorphism with Periodontitis in Indian Population: A systemic Review	Pandey R, Bhateja S	Turkish Journal of Physiotherapy & Rehabilitation	2021
Salivary and Gingival Crevicular Fluid: Psychological Stress Biomarkers in Periodontal Disease	Palwankar P, Tyagi D, Gopal L	European Journal of Molecular and Clinical Medicine	2021
Diabetes and Periodontitis – A Socioeconomic Disease?	Palwankar P, Tandon S, Blaggana V, Palwankar D, Sachdeva A	Journal of Evolution of Medical and dental Sciences	2021
Randomised Controlled Trial to Compare the Efficacy of Scalpel, Laser and Cryotherapy (Tetrafluroethane)	Sharma R, Pandey R, Palwankar P	Turkish Journal of Physiotherapy & Rehabilitation	2021

Techniques in Depigmentation of Gingiva			
Bone Graft and Materials in Dentistry	Dhalla N, Aggarwal A	Turkish Journal of Physiotherapy & Rehabilitation	2021
Ligaplasts: A New Era in Dental Engineering.	Gopal L, Varshney A, Aggarwal A, Aggarwal S	Bioscience Biotechnology Research Communications	2021
Effects of Covid-19 in Dentistry	Pal Y, Saini U, Gopal L	Turkish Journal of Physiotherapy & Rehabilitation	2021
Beam of Light - An Asset to Dentistry	Gopal L, Aggarwal A	Vidyabharati International Interdisciplinary Research Journal	2021
Analysis of Growth Potential of Odontogenic Keratocyst Using Ki-67: A Systematic Review.	Varshney A, Aggarwal S	Turkish Journal of Physiotherapy & Rehabilitation	2021
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, Varshney A, Sharma R	Journal of Cardiovascular Disease Research	2021
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
Comparative Evaluation of Salivary Biomarker Levels in E-Cigarette Smokers and Conventional Smokers.	Verma A, Anand K, Bhargava M, Kolluri A, Kumar M, Palve DH.	Journal of Pharmacy and Bioallied Sciences	2021
Oral and perioral piercings: Awareness and knowledge among undergraduatedental 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
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



Comparison of healing assessments of periapical endodontic surgery using conventional radiography and cone-beam computed tomography: A systematic review	Dax Abraham, Alpa Gupta, Sucheta Jala, Parul Chauhan, and Arundeeep Singh	Imaging Science in Dentistry	2021
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
Validation of Pefloxacin for Detection of Fluoroquinolone (Fq) Resistance among Salmonella Typhi With Special Reference to GYRB Mutations	Shakila, Shobha Broor <sup>1</sup> , G Ruchi Gupta, Priti Agarwal, Subhradeep Majumder, Anupam Kumar Anveshi and Rajni Gaiind	Journal of Medical Microbiology	2021
An Assessment of Oral Health Status among Lead Battery Factory Workers in Ghaziabad UP: A Cross Sectional Study.	Monga A, Thnveer K, Gupta B, Aggarwal A, Yadav N, Jain M, Sharma A.	Indian Journal of Forensic Medicine and Toxicology	2021
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
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
Periodontal Health of the Geriatric Population in Old-age Homes of Delhi, India.	Yadav N R, Jain M, Sharma A, Jain V, Singh S., Singh A., Reddy VK., Tandon S.	Journal of Indian Society of Periodontology	2021
Artificial Intelligence in Dentistry : A Mile Stone	DSV Sindhuja, Gaurvi Vikram Kamra, Ankur Sharma	Indian Journal of Applied Research	2021
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
Regenerative aspects In Prosthodontics	Nikita Karabale, Pankaj Dhawan, Divyesh Mehta	Journal of Prosthodontics Dentistry	2021



Redefining Prosthodontics with 3D Printing	Dr. Chetna Grover, Pankaj Dhawan, Shivam Singh Tomar	International Journal of Advanced Research	2021
Importance of Genetic Engineering and Gene Therapy in the Management of Viral Diseases and Outbreaks	Vanshika Arora, Ashim Aggarwal, Shivani Aggarwal, Randhir Kumar	Journal of Evolution of Medical and Dental Sciences	2021
Analyzing the Role of Malnourishment in Malocclusion: A Cross-sectional Study	Kumar Anand, Kumari Menka, Saritha Malod, Subhash Chandra Nayak, Tina Chowdhary, Manish Bhargava	Journal of Pharmacy and Bioallied Sciences	2021
Diagnostic Criteria and Treatment Modalities of Taurodont Teeth Undergoing Root Canal Treatment: A Literature Review of Case Reports and Case Series	Sreen D, Gupta A, Abraham D, Singh A, Mehta N, Sethi J.	Saudi Endodontic Journal	2021
Comparative Evaluation of Antibacterial Efficacy of Allium Sativum Extract, Aqueous Ozone, Diode Laser, and 3% Sodium Hypochlorite in Root Canal Disinfection: An In Vivo Study	Mehta N, Gupta A, Mahesh S, Abraham D, Singh A, Jala S, Chauhan N, Sreen D.	Journal of Conservative Dentistry	2021
Preoperative Intraligamentary Injection of Dexamethasone can Improve the Anesthetic Success Rate of 2% Lidocaine during the Endodontic Management of Mandibular Molars with Symptomatic Irreversible Pulpitis	Aggarwal V, Singla M, Saatchi M, Gupta A, Hasija M, Meena B, Kumar U	Journal of Endodontist	2021
Effect of Intra canal Cryotherapy on Postendodontic Pain: A Systematic Review and Meta-Analysis of Randomized Controlled Trials	Gupta A, Aggarwal V, Gurawa A, Mehta N, Abraham D, Singh A, Jala S, Chauhan N	Journal of Dental Anesthesia and Pain	2021
Comparative evaluation of Photo activated Disinfection and Sonic Irrigation as an Adjunct to Conventional Irrigation on Enterococcus	Kohli T, Mehta N, Garima G, Gupta A, Mahesh S, Abraham D, Singh A.	Endodontology	2021

Faecalis In Root Canals: An In Vitro Study			
How to write Systematic Review and Meta-analysis	Aggarwal V, Singla M, Gupta A, Mehta N, Kumar U	Endodontology	2021

#### Books Chapters: 2020-21

Name of the Teacher	Title of the Book / Chapters Published
Dr Tamanna Soni	Evaluation of Temporomandibular Joint in Health and Diseases
Dr. Nipun Dhalla, Dr. Pooja Palwankar	Medical Emergencies in Dental office
Dr Shveta Sood	Management of Pulpally involved Young Permanent Teeth
Dr Shveta Sood	Detection and Diagnosis of Dental Caries
Dr Shveta Sood	Pediatric Epilepsy and Seizures- Is there Hope?
Dr Shveta Sood	Obstructive Sleep Apnea in Children
Dr Naresh Sharma	Detection and Diagnosis of Dental Caries
Dr Naresh Sharma	Molar-Incisor Hypomineralization
Dr Naresh Sharma	Obstructive Sleep Apnea in Children
Dr Naresh Sharma	Diabetes Mellitus in Children-an uncontrolled Chaos
Dr Akshara Singh	Pediatric Epilepsy and Seizures-is there hope?
Dr Akshara Singh	Diabetes Mellitus in Children-an uncontrolled Chaos
Dr Shivam	Full Mouth Rehabilitation
Dr Divyesh Mehta	Full Mouth Rehabilitation
Dr Piyush Tandan	Adhesives in Dentistry
Dr Mansi Nautiyal	Adhesives in Dentistry

### Board of Faculty-FDS

1	Dr. Arundeeep Singh	Professor & Dean, FDS	Chairperson
2	Dr. Ashim Aggarwal	Professor & Head Department of Oral & Maxillofacial Surgery	Member
3	Dr. Pankaj Dhawan	Prof. & Head Department of Prosthodontics and Crown & Bridge	Member
4	Dr. Sridhar Kannan	Professor & Head Department of Orthodontics & Dentofacial Orthopaedics	Member
5	Dr. Dax Abraham	Professor & Head Department of Conservative Dentistry & Endodontics	Member
6	Dr. Pooja Palwankar	Professor & Head Department of Periodontology	Member
7	Dr. Shveta Sood	Professor & Head Department of Paediatric and Preventive Dentistry	Member
8	Dr. Shivani Aggarwal	Professor & Head Department of Oral Pathology & Oral Microbiology	Member
9	Dr. Meena Jain	Professor & Head Department of Conservative Dentistry & Endodontics	Member
10	Dr. Sumit Bhateja	Professor & Head Department of Oral Medicine & Radiology	Member
11	Dr. Anupama	Professor & Head Department of Physiology	Member
12	Dr. Reena Doomra	Professor & Head Department of Pharmacology	Member
13	Dr. Anjana Goyal	Professor & Head Department of Biochemistry	Member
14	Dr. Savita Bansal	Professor & Head Department of General Pathology	Member
15	Dr. Alpana Goel Kesar	Professor & Head Department of Anatomy	Member
16	Dr. Shakila Mahesh	Professor & Head Department of Microbiology	Member
17	Dr. Vivek Aggarwal	Professor Jamia Millia Islamia, New Delhi	External Member
18	Dr. Jatin Kharbanda	Professor ESIC Dental College, Rohini Delhi	External Member

### Board of Studies- Dept. of Conservative

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2	Dr. Dax Abharam	Professor	Member
3	Dr. Alpa Gupta	Reader	Member



4	Dr. Sucheta Jala	Sr. Lecturer	Member
5	Dr. Vivek Aggarwal	Professor, Jamia Millia Islamia, New Delhi	External Member
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#### Board of Studies- Dept. of Prosthodontics

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4	Dr. Divyesh Mehta	Reader	Member
5	Dr. Mansi Nautiyal	Sr. Lecturer	Member
6	Prof. (Dr.) Veena Jain	Prof. & Head AIIMS, New Delhi	External Member

#### Board of Studies- Orthodontics

1	Dr. Sridhar Kannan	Professor	Chairperson
2	Dr. Nitin Arora	Professor	Member
3	Dr. Ashish Kumar Singh	Reader	Member
4	Dr. Abhita Malhotra	Sr. Lecturer	Member
5	Prof. Dr. Anil Chandna	Professor and Director P.G. Studies, Institute of Dental Sciences, Bareilly	External Member

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1	Dr. Shveta Sood	Professor & Head	Chairperson
2	Dr. Naresh Sharma	Reader	Member
3	Dr. Akshara Singh	Sr. Lecturer	Member
4	Dr. Bhavna Gupta Saraf	Prof & Head, Sudha Rustagi College of Dental Sciences, Faridabad	External Member

### Board of Studies-Periodontology

1	Dr. Pooja Palwankar	Professor & Head	Chairperson
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3	Dr. Ruchi Pandey	Reader	Member
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6	Prof. Dr. C.S. Baiju	Prof. Sudha Rustogi Dental College, Faridabad	External Member

### Board of Studies-OMR

1	Dr. Sumit Bhateja	Reader	Chairperson
2	Dr. Tamanna Soni	Sr. Lecturer	Member
3	Dr. Archana Nagpal	HOD - SGT Gurgaon	External Member
4	Dr. Shaamimul Hasan	Prof. Jamia Millia Islamia, New Delhi	External Member

### Board of Studies-Oral Surgery

1	Dr. Ashim Aggarwal	Professor & Head	Chairperson
2	Dr. Rakshak Anand	Reader	Member
3	Dr. Gargi Madiwale	Sr. Lecturer	Member
4	Dr. Sanjeev Kumar	Prof. & Head ITS Dental College Muradnagar Ghaziabad	External Member
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### Board of Studies-Oral Pathology

1	Dr. Shivani Aggarwal	Professor & Head	Chairperson
2	Dr. Manish Bhargava	Professor & Head	Member
3	Dr. Anchal Varshney	Sr. Lecturer	Member
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5	Dr. Jitin Kharbanda	Prof. ESIC Dental College, Rohini Delhi	External Member

### Board of Studies - Public Health Dentistry

1	Dr. Meena Jain	Reader	Chairperson
2	Dr. Nisha Yadav	Sr. Lecturer	Member
3	Dr. Akanksha	Sr. Lecturer	Member
4	Dr. Abhishek Mehta	Prof. & Head, Jamia Milia Islamia Dental College	External Member
5	Dr. Shilpi Singh	Reader IDST Modinagar	External Member

### Board of Studies- Basic Sciences

1	Dr. Shakila Mahesh	Reader	Chairperson
2	Dr. Anupama	Reader	Member
3	Dr. Reena Doomra	Reader	Member
4	Dr. Anjana Goyal	Reader	Member
5	Dr. Savita Bansal	Reader	Member
6	Dr. Alpana Goel Kesar	Reader	Member
7	Dr. Rinku Garg	Professor, Dept. of Physiology, Santosh Medical & Dental College, Ghaziabad.	External Member
8	Dr. Deep Inder	Professor, Department of Pharmacology, Jamia Milia Islamia, New Delhi	External Member
9	Dr. Archana Sood	Professor, Department of Biochemistry, ESIC Rohini, Delhi	External Member



10	Dr. Mohamad Saleem	Associate Professor, Department of Pathology, Jamia Milia Islamia, New Delhi.	External Member
11	Dr. Dalvinder Singh	Professor, Department of Anatomy, FDS, Jamia Milia, Islamia, New Delhi	External Member
12	Dr. Anuradha Sharma,	Professor, Department of Microbiology, Jamia Milia Islamia, New Delhi.	External Member

Manav Rachna Dental College, Faculty of Dental Sciences has grown over the years and has maintained its Position as a Leading Force in all the three Facets of Dental Healthcare, Provision of Dental Care to Patients, Research and Medical Education. Manav Rachna Dental College is the only NAAC 'A' grade accredited Institute in Haryana. The College has been adjudged by the Outlook during best college survey as 22<sup>nd</sup> best College among all Government and Private Dental Colleges of India in 2019. It has been placed at 24<sup>th</sup> rank by India Today during best college survey 2019. Our glory in the past years has been one of pride; humility and constant strive for excellence.

Manav Rachna Dental College's roadmap to future is guided by its vision of becoming a worldwide leader in Dental Education and Public Health Clinical Practice, with a passion to care for underserved one; and its mission to embark upon innovations in Oral Health Education, Research and service to improve quality of life of the community it serves. On this path, we have made significant strides over the past year. 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:**

Manav Rachna Dental College strives for excellence in academics and providing its students best of education for preparing them as good Dental Surgeons of Tomorrow. We have been developing our curriculum according to, as well as beyond the recommended Dental Council curriculum in order to provide an enhanced learning opportunity for students. We have introduced new teaching-learning methods in our pedagogy.

- Best patient care can be provided only by treating the patient as a whole rather than treating individual pathologies. This involves a lot of interdisciplinary coordination. In order to enhance a multidisciplinary learning atmosphere, we have introduced inter-departmental seminars for students, wherein they work in coordination with each other for improving patient outcomes.
- Vertical integration includes coverage of students, starting from first year BDS to MDS students, in working on the same clinical or public health problem. This helps the students to appreciate the integrity of their part of course in the complete patient care scenario.
- Clinico-Pathological Seminar for Post-Graduate students is another key area where we move beyond the DCI curriculum to provide value-added learning opportunity. Through this, our students acquire an insight about pathological changes leading to clinical manifestations in the patients and how the diagnosis has to be established as a continuum of clinical and pathological changes.

- Peer guided learning is one of the important features of our teaching-learning process. In addition to the guidance obtained through faculty members, MRDC tags students with senior students for hand-holding and helping in academic endeavors.
- We acknowledge that the students need to be close to the community being the community as a platform where they have to perform after graduating. Additionally, working at community level also provides an opportunity to learn and practice leadership skills as well as trust and empathy. Hence, we have introduced a post-graduate community training program in first year of MDS course.
- Manav Rachna Dental College's flagship mentoring program is a unique process where vertical and horizontal mentorship is provided to each student, whereby a dedicated mentor helps the student to achieve academic and professional goals.
- We have also introduced soft-skills classes for undergraduate students to help them to improve their communication and interpersonal skills. These skills are important for a doctor in practice as well as in social sphere as community leader in healthcare.

Our results in the past years reflect our culture and ethos. We have obtained 100% result for our BDS courses for the past year. This is the result of our continuous efforts towards providing individual attention towards our students. MRDC is proud to have a student teacher ratio of 4:1, which means that we are able to provide highly personalized & dedicated mentoring to our students.

Manav Rachna Dental College follows a tradition of keeping abreast with the latest advancements and technology in the field of Dentistry and Healthcare. We believe that Dentistry is a dynamic Art and Science. A part of quality education involves imparting knowledge and skills to both students as well as the faculty members about the latest offering in the domain. Therefore, we have a great emphasis on Continuing Dental Education and Faculty Development. We hold regular Continuing Dental Education (CDE) programs and Faculty Development Programs (FDPs) to meet this goal. Our programs are conducted by experts in the relevant fields of learning. We have conducted over 70 CDE programs in past five years. These programs are conducted by the departments and are available to the students and faculties of MRDC.

### **Social Health Initiatives**

Ignited by desire of our Founder's visionary to provide best possible Healthcare for poor and undeserved members of the society, the institute makes an all-out effort to provide Consultancy to Socially and Economically Weaker Sections of the Society. Treatment Camps are organized for Orphanages, Old age Homes, physically and



intellectually challenged individuals, including various other strata of society. To spread the oral hygiene messages, the college organizes Dental Health education Camps in the villages and slum areas. Our flagship public health dentistry programs over the years have been instrumental in improving the dental health of the community.

Here is a brief about some of our important programs and work done under Social and Community Health initiatives.

- "Faridabad Smiles" is a flagship program run by Manav Rachna Dental College in order to improve oral health of the rural and underprivileged community. A series of six dental checkup camps, two camps daily for 3 days a week are conducted under this program. The patients are screened for diseases of mouth, are treated on subsequent visits to MRDC which are facilitated through provision of free transport facility. The treatment is provided to these patients at special affordable rates. The program started in 2016, is in its fourth year of running.
- Dr. O. P. Bhalla and Rotary Club Blood Donation Camp: A number of 1392 units of blood was collected during the **Mega Blood Donation** Camp.
- Public Health Dentistry Day 2020 was celebrated on 23rd June 2020 through online platform of Microsoft teams by conducting a webinar - "First Line of Defence against COVID-19" for the students & faculty of MRIIRS University as well as General Public. The aim was to create awareness regarding Face Masks & Hand Sanitization. The event was attended by more than 250 participants from different professions. We received positive feedback from various participants.
- A free denture delivery program is organized every year at Manav Rachna Dental College, where needy patients are provided free of cost Dentures. This occurs on the sidelines of Dr. O. P. Bhalla free dental treatment drive, which is conducted during months of March to May each year. Under this drive, free dental treatment is provided, to cater the basic treatment needs of all walk-in patients at MRDC.
- A weekly dental treatment outreach activity is conducted at Mohna village (Faridabad) on every Friday by Manav Rachna Dental College. The community centre run by Dr. O. P. Bhalla Foundation is used as the venue to conduct this outreach program and mobile dental van is utilized for free treatment to the patients of remote areas. Native of Mohna and surrounding villages utilize this facility.
- A "No Tobacco Drive" is launched every year by Manav Rachna Dental College, which includes various awareness activities, personalized Tobacco-Cessation counseling to the masses, various Competitions including Poster Making Competition and Slogan Writing Competition etc. The drive culminates with a 'No-Tobacco Rally and Walkathon' in Faridabad on 31<sup>st</sup> May every year.
- Manav Rachna Dental College has worked on various activities for upliftment of Women in past years. This includes activities on Women Hygiene including Lectures, Street Plays, distribution of Sanitary Pads and Health Talks in community.

- School Oral Health Camps have been organized by MRDC in various schools of Delhi-NCR region including Faridabad, Noida, Delhi and Gurgaon. Screening and treatment for school children and dental health education is provided for all the school students. The schools include both Government and Privately owned institutions.
- Distribution of COVID-19 awareness posters –01.09.2020 Manav Rachna Dental College started distribution of COVID-19 awareness Posters and Pamphlets among the Patients coming to the OPD to make them aware of proper preventive measures against COVID-19 as well as the instructions to be followed in the OPD.



Arrays of activities and social health programs have been organized by MRDC for improvement of oral health of specialized populations that includes geriatric population, vulnerable groups and specially-abled populations. These include:

- Old Age Homes
- Orphanages
- Residential and educational facilities for intellectually disabled, and
- Economically weaker populations.

### Oral Health Education for MRIS School Children

MRDC conducted oral health education drive through online portal, oral health education sessions for students of Manav Rachna International Schools. The drive included interactive talks about oral hygiene maintenance as well as presentations for



children and their parents.



Manav Rachna Dental College is also involved in public health activities for general health in addition to dental public health activity. These include public health work pertaining to common issues in the society.

- MRDC has been involved in a yearly blood donation camp with an aim of improving availability of blood for blood transfusions.
- Integrated Health Promotion Program was developed and conducted by MRDC in villages of Tilpat and Palla. The program aimed at improving health related aspects and practices among BPL households through activation of housewives towards health of themselves & health of their families too.



**Additionally, MRDC has also participated in social initiatives like:**

- Anti terrorism pledge
- Swacch Bharat Initiative
- Free bus shuttle for patients
- Tree plantation drives



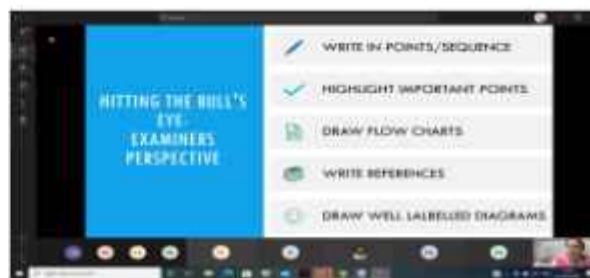
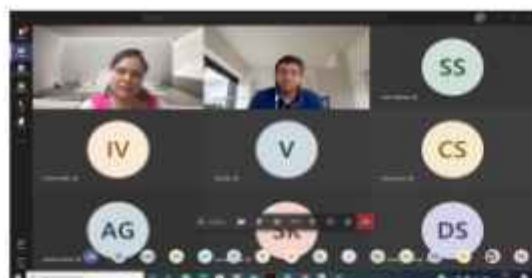




1. Webinar On **"Conscious Sedation"** by Dr. Arnab Sen Gupta on 27.07.2020 organized by Dept. of Pedodontics & Preventive Dentistry.



2. CDE on **"How to attempt BDS Final year exam"** by Dr. Panchali Batra on 01.08.2020 organized by Dept. of Orthodontics.



3. Webinar on **"DAMON APPLIANCE Philosophy & Biologic Rationale"** by Dr. Anupam Aggarwal on 20.10.2020 Organized by Dept. of Orthodontics.



4. CDE on **"Bulkfill class II restoration on Bioclear"** by Dr. David Clark on 23.03.2021 Organized by Dept. of Endodontics.
5. **"World Oral Health Day"** on 22.03.2021 organized by Dept. of Public Health Dentistry.



6. CDE on **"Botox- Broadening the Horizon of Dentistry"** by Dr. Mridu Miglani on 08.04.2021 organized by Dept. of Periodontology.





7. Inauguration of **"Manav Rachna Centre for Dental Excellence (MRCDE)"** by Mrs. Satya Bhalla, Chief Patron, MREI on 03.04.2021. Treatment Facilities provided at MRCDE includes Implants, Dental Fillings, Root Canal Treatment (RCT), Crowns, Bridge, Teeth Whitening, Smile Design, Mouth Ulcers, Gum Treatments, Kids Dentsitry, Tooth Extraction, Scaling & Polishing, Veneers, Preventive Dentistry, Laser Treatment and Wisdom Teeth Extraction.



8. Webinar on **"Expert Talk: Immediate Implants"** by Dr. Dhruv Arora on 13.04.2021 Organized by MRCDE.



9. **"WCLI Certification Laser CDE Module-1"** on 15.04.2021-16.04.2021 organized by MRCDE.





10. Webinar on **“Black Fungus- Role of Dentist”** by Dr. Vijay kumar Girhe and Dr. Shakila Mahesh on 24.05.2021 organized by Dept. of Public Health Dentistry.



11. CDE on **“Tobacco Cessation- Commit to Quit”** by Dr. Vikrant Mohanty on 28.05.2021 organized by Dept. of Public Health Dentistry.
12. Webinar on **“Surgical Orthodontic”** on 05.06.2021 by Dr. Sherry Peter organized by Dept. of Orthodontics.
13. Webinar on **“Hard & Soft tissue Regeneration: Predictable & Precise approach in Implant Dentistry”** by Dr. Sandeep Singh on 07.06.2021 organized by MRCDE.
14. CDE on **“A Dive into Immunology of COVID-19 Vaccine”** by Dr. Nimesh Gupta on 11.06.2021 organized by Dept. of Oral Medicine and Radiology.
15. Webinar on **“Contemporary approaches to manage the emergence profile & redesign soft tissue around implants”** by Dr. Minas D Leventis on 11.06.2021 organized by MRCDE.
16. Webinar on **“Lasers - A groovy tool in modern periodontal practice”** by Dr. Ashank Mishra on 15.06.2021 organized by Dept. of Periodontology.

17. Webinar on **"CBCT- An answer to all endodontic problems"** by Dr. Shalu Mahajan on 24.06.2021 organized by Dept. of Endodontics.

The screenshot shows a Zoom meeting interface. At the top, there are three video thumbnails: a red one with a white 'Z', a small video of a man, and a larger video of a man. Below them are the names 'Ruchi Pandey', 'Dr. SHALU', and 'DR. ABHINAV...'. The main content area displays a presentation slide with the title 'Root Surface Bio-modification with Erbium Lasers- A Myth or a Reality??'. Below the title is a link to a PDF document. The slide also features the 'Journal of Lasers in Medical Sciences' logo and the title 'Laser Effects on the Prevention and Treatment of Dentinal Hypersensitivity: A Systematic Review' by 'Fahnestock, Bouscaillet, Paris, Delplanque, Stess, Jorgensen'. To the right of the main window, there is a 'Participants (20)' list showing names and status (e.g., 'Dr. Shalu Mahajan', 'Dr. Ruchi Pandey'). Below the list is a chat window with messages from 'Dr. Shalu Mahajan' and 'Dr. Ruchi Pandey'.

## CHAPTER-4

### ACADEMIC CALENDAR

**Manav Rachna International Institute of Research & Studies  
(Deemed to be University)  
Academic Calendar: 2020-21**

ACADEMIC CALENDAR FOR FIRST YEAR (ODD SEMESTER) ONLY				
Sr. No.	Activity	From	To	Remarks
1	<b>Commencement of Classes for first year</b>	<b>01.10.2020</b>		
1.1	Forwarding of Roll No. List to Depts. from Registrar Office	25.09.2020		
1.2	Preparation and Submission of Teaching Load to Asso. Dean (Acad.)	24.09.2020		
1.3	Submission of list of Mentors and Mentees to Asso. Dean (Acad.)	25.09.2020		
1.4	Preparation of the Time Table and creation of Teams / Groups on MS Teams	28.09.2020		
1.5	Uploading of the Time Table and Teaching Plan on ERP	29.09.2020		
1.6	Information to all the Students by respective HoDs through Mentors	29.09.2020		
2	First Sessional Tests for first year	05.12.2020	12.12.2020	Mode of Conduct of Exam (to be notified as per conditions / <b>guidelines</b> )
2.1	Date-sheet / Schedule to be notified by respective Departments on or before	27.11.2020		
2.2	Completion of evaluation and posting of awards on EMS	14.12.2020	16.12.2020	
3	Winter Break	25.12.2020	03.01.2021	
4	Second Sessional Tests for First year	30.01.2021	06.02.2021	Mode of Conduct of Exam (to be notified as per conditions)



4.1	Date-sheet / Schedule to be notified by respective Departments on or before	23.01.2021		
4.2	Completion of Evaluation and posting of awards on EMS	08.02.2021	10.02.2021	
5	End of Semester Classes	12.02.2021		
6	List of eligible students on the basis of mandatory min. attendance on or before	16.02.2021		
7	Submission of Continuous Assessment / Internal Marks to CoE on or before	16.02.2021	19.02.2021	
8	End Semester Practical Examination for First year	17.02.2021	22.02.2021	Mode of Conduct of Exam (to be notified as per conditions / <b>guidelines</b> )
8.1	Date sheet / schedule to be notified by respective Departments on or before	12.02.2021		
8.2	Submission of awards of practicals to CoE on or before	25.02.2021		
9	Course Feedback Survey regarding Course Outcome Attainment	08.02.2021	11.02.2021	
10	End Semester Theory Examination for first year	26.02.2021	13.03.2021	Mode of Conduct of Exam (to be notified as per conditions / <b>guidelines</b> )
10.1	Date-sheet / Schedule to be notified by CoE on or before	17.02.2021		
10.2	Completion of Evaluation and submission of marks to CoE on or before	20.03.2021		
10.3	Showing of the Answer Sheets of End Semester Examination	22.03.2021	23.03.2021	
10.4	Declaration of Results of Semesters Examination on or before	31.03.2021		
11	Submission of <b>Complete</b> Course Files to respective HoD with Course Outcome attainment Computation and Analysis on or before	05.04.2021		
12	Commencement of Even Semester (II Semester)	15.03.2020		
12.1	Notification of Academic Calendar for II Semester	26.02.2021		
12.2	Registration of Courses for II Sem by students	08.03.2021	10.03.2021	
12.3	Approval of Courses by HoD for II Sem	11.03.2021	12.03.2021	

## ACADEMIC CALENDAR for 4<sup>th</sup> and 6<sup>th</sup> Semester only

ACADEMIC CALENDAR FOR CLASSES (ODD SEMESTER) OTHER THAN 1<sup>st</sup> YEAR

Sl No.	Activity	From	To	Remarks
1	Commencement of Classes for all Programmes and Semester (except 1st year)	01.06.2020		Online Viva + Presentation ( Plan from 2 PM onwards)
2	Practical Examination of Intermediate semesters (Even Semester)	06.07.2020	12.07.2020	
2.1	Date-sheet / Schedule to be notified by respective departments on or before	01.07.2020		
3	Reappear in examination of all semesters	17.07.2020	07.08.2020	All Examination to be conducted online with proctoring (AI and Online proctoring). Online classes to remain suspended from 17.07.2020 to 31.07.2020 and thereafter exams to be scheduled 2:00pm onwards in a staggered manner and classes shall resume from 3.8.2020.
3.1	Last Date of submission of reappear Form with concerned HoD after deposition of requisite fee of reappearance in Part 1	11.07.2020		
3.2	Date - sheet to be notified Part 1 (compiled till results of Dec 2019) on or before	09.07.2020		
3.3	Evaluation of Answer sheets and submission of Marks to CoE on or before	16.08.2020		
3.4	Declaration of Results of Reappear Examination on or before	23.08.2020		

4	Feedback of Students on Course delivery for current semester courses (Odd Semester)	03.08.2020	06.08.2020	
5	First sessional tests for senior classes (other than 1st Year)	08.08.2020	17.08.2020	Mode of conduct shall be notified as per guidelines
5.1	Date sheet/ Schedule to be notified by respective departments on or before	01.08.2020		
5.2	Completion of Evaluation and posting of awards on EMS	17.08.2020	20.08.2020	
6	Second sessional tests for senior classes (other than 1st Year)	26.09.2020	03.10.2020	Mode of conduct shall be notified as per conditions
6.1	Date sheet / schedule to be notified by respective departments on or before	21.09.2020		
6.2	Completion of Evaluation and posting of awards on EMS	03.10.2020	07.10.2020	
7	Last Teaching Day for the Current Semester	09.10.2020		
8	Declaration of eligible Students on the basis of required minimum attendance on or before	14.10.2020		
9	Submission of Continuous Assessment / Internal Marks	14.10.2020		



	to CoE on or before			
10	Conduction of End Semester Practical Examination for senior classes (other than 1 <sup>st</sup> Year)	Postponed till further Notification (as per the condition of opening of Campus for Students)		
10.1	Date sheet / schedule to be notified by respective departments on or before			
10.2	Completion of evaluation and submission of marks to CoE on or before			
11	Course Feedback Survey regarding Course Outcome Attainment	14.10.2020	19.10.2020	
12	Conduct of End Semester Theory Examination for senior classes (other than 1 <sup>st</sup> Year) Regular Courses of Current Semester	19.10.2020	07.11.2020	Mode of Conduct shall be notified as per conditions
12.1	Date sheet / Schedule to be notified by CoE on or before	12.10.2020		
12.2	Completion of Evaluation and submission of marks to CoE on or before	18.11.2020		
12.3	Declaration of Results of (Regular Semesters other than 1st year) Examination on	To be notified later		

	or before		
13	Submission of complete Course Files (for Theory Courses only) to respective HoD with Course Outcome Attainment Computation and Analysis on or before	24.11.2020	
14	Commencement of Classes for next Semester	To be notified later	

#### ACADEMIC CALENDAR FOR 4th and 6th SEMESTER Only

Sr. No.	Activity	From	To	Remarks
1	<b>Start of Classes</b>	<b>21.12.2020</b>		
1.1	Compilation of list of courses to be offered by each department as open electives	03.12.2020		
1.2	Preparation of Teaching Load including open electives	04.12.2020		
1.3	Preparation of the Time Table	04.12.2020		
1.4	Course Tagging and upload of Time Table on ERP	04.12.2020	14.12.2020	
1.5	Uploading of the Teaching plan on ERP	11-12.2020		
1.6	Registration of students on ERP	14.12.2020	17.12.2020	
1.7	Approval of Student Registration on ERP by HoD	18.12.2020	19.12.2020	
2	<b>First Sessional Tests</b>	<b>15.02.2021</b>	<b>20.02.2021</b>	Mode of Conduct shall be notified as per conditions
2.1	Date sheet / schedule to be notified by respective departments on or before	08.02.2021		
2.2	Completion of Evaluation and posting of awards on ERP	<b>27.02.2021</b>		

3	<b>Second Sessional Tests</b>	<b>12.04.2021</b>	<b>17.04.2021</b>	Mode of Conduct shall be notified as per conditions
3.1	Date sheet/Schedule to be notified by respective departments on or before	<b>05.04.2021</b>		
3.2	Completion of Evaluation and posting of awards on ERP	20.04.2021		
4	List of eligible Students on the basis of required min. attendance on or before	20.04.2021		
5	Submission of Continuous Assessment / Internal Marks to CoE on or before	30.04.2021		
5.1	Last day of Instructions.	30.04.2021		
6	<b>End Semester Practical Examination</b>	<b>23.04.2021</b>	<b>29.04.2021</b>	Mode of Conduct shall be notified as per conditions
6.1	Date sheet/Schedule to be notified by respective departments on or before	17.04.2021		
6.2	Completion of Evaluation and submission of marks to CoE on or before	03.05.2021		
7	Course Feedback Survey regarding Course Outcome Attainment	26.04.2021	30.04.2021	
8	<b>End Semester Theory Examination</b>	<b>08.05.2021</b>	<b>22.05.2021</b>	Mode of Conduct shall be notified as per conditions
8.1	Date sheet / Schedule to be notified by CoE on or before	01.05.2021		
8.2	Completion of evaluation and submission of marks to CoE on or before	26.05.2021		
8.3	Declaration of Results of Semesters Examination on or before	02.06.2021		
9	Submission of <b>COMPLETE</b> Course Files to respective HoD with Course Outcome Attainment Computation and Analysis on or before	10.06.2021		
<b>Note:</b>				
A. The internship(s) supposed to be conducted after 2 <sup>nd</sup> and/or 4 <sup>th</sup> semester, can be conducted from 14.12.2020 (in parallel <b>simultaneously</b> after the regular online class timings) in either of the following four ways and shall be completed by 31st				



Jan 2021 (Prior approval of the action plan is required in either of case by office of the PVC academics)			
	i. Online Courses/workshop offered by Department HoDs.		
	ii. Online Courses offered by Coursera/Edx/Swayam/NPTEL/other Govt. Agency.		
	iii. Online Internships through Internshala and other agencies including Govt and Non Govt. Departments, as recommended by HoDs.		
	iv. Students can select a project under the supervision of faculty/industrial mentor and results to be published in a Journal/Book indexed in Scopus/WoS/PubMed		
B. MCA / BSc. (IT) Sixth semester students can opt for Internship based or course based semester. The HoD, FCA is required to share the information about students opting for courses/internship, to the office of Dean (Academics) by 10 Jan 2021.			
Respective HoD will ensure that the entire documentation related to course / certification / internship is maintained for each student as per policy.			
D. Credit Scheme for Internship			
	1. Duration of Two week for Internship = 1 Credit		
	2. Credit to be counted only after successfully completion of Course/Internship.		
E. Student wise details of internships to be submitted in the office of CRC within 15 Days of evaluation.			

### ACADEMIC CALENDAR FOR 8<sup>th</sup>/FINAL SEMESTER

Sr. No.	Activity	From	To	Remarks
1	<b>Commencement of Classes</b>	<b>21.12.2020</b>		
1.1	Compilation of List of courses to be offered by each department as an open electives	03.12.2020		
1.2	Preparation of Teaching Load including open electives	04.12.2020		
1.3	Preparation of Time Table	04.12.2020		
1.4	Course Tagging and upload of Time Table on ERP	04.12.2020	14.12.2020	
1.5	Uploading of the Teaching Plan on ERP	11.12.2020		
1.6	Registration of students on ERP	14.12.2020	17.12.2020	
1.7	Approval of Student's Registration by HoD on ERP	18.12.2020	19.12.2020	
1.8	Approval of students' registration on ERP	<b>21.12.2020</b>		
2	<b>Sessional</b>	<b>28.01.2021</b>	<b>30.01.2021</b>	Mode of Conduct shall be notified as per conditions

3	<b>Internship/ Project work/ Early Joining</b>	01.02.2021	22.04.2021	
4.1	<b>End Semester Practical Examination</b>	<b>23.04.2021</b>	<b>29.04.2021</b>	
4.2	Date sheet / Schedule to be notified by respective departments on or before	17.04.2021		
4.3	Completion of evaluation and submission of marks to CoE on or before	03.05.2021		
4.4	Course Feedback Survey regarding Course Outcome Attainment	26.04.2021	30.04.2021	
4.5	Last Day for Instructions	<b>30.04.2021</b>		
5	<b>End Semester Theory Examination</b>	<b>08.05.2021</b>	<b>22.05.2021</b>	
5.1	Date sheet / Schedule to be notified by CoE on or before	01.05.2021		
5.2	Completion of evaluation and submission of marks to CoE on or before	26.05.2021		
5.3	Declaration of Results of Semesters Examination on or before	02.06.2021		Mode of Conduct shall be notified as per conditions
6	Submission of <b>COMPLETE</b> Course Files to respective HoD with Course outcome Attainment Computation and Analysis on or before	10.06.2021		
<b>Note:</b>				
	1. Only one sessional to be conducted and marks to counted twice			
	2. Internships and/or project work can be completed during 01.02.2021- 22.04.2021, Students has to apply for them in advance			
	3. The Project is compulsory for all the final year / 4th year students			
	4. The Internship period can be Internal, in the form of University work, under the supervision of faculty members			
	5. In case the student is selected in an organisation and going for early joining, S/he may join during internship period (as mentioned above) but has to remain available for end semeste evaluations.			
	6. For the students of B. Arch., 8th Sem is totally internship based			
	7. Student wise details of internships to be submitted in the office of CRC within 15 Days of evaluation.			



## CHAPTER-5

### FACILITATION UNITS OF THE UNIVERSITY

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

Activities of IQAC during the Academic Year 2020-21:

##### A. FDPs conducted by IQAC

Title of the Professional Development Program	Details
<b>Expert Lecture on IoT and LoRa WAN Technology</b> Resource Person: Mr. Devender Dhawan, Touch Techno, Delhi	Expert Lecture on IoT and LoRa WAN Technology for the students of Cloud Computing specialization under CSE Department on 3 <sup>rd</sup> July 2020 via MS-Teams Platform. A total number of 60 students attended the workshop along with 2 faculty members.
<b>Workshop on usage of Virtual Labs in collaboration with IIT Delhi</b> Resource Person: Mr. Prateek Sharma, Senior Field Engineer/ Mentor, Virtual Labs	Manav Rachna International Institute of Research and Studies has entered into an Expression of Interest (Eoi) with Virtual Labs, IIT Delhi. Under this Eoi, a workshop was organized on 15 <sup>th</sup> July, 2020 via Google Meet platform. A total number of 29 faculty members from various Departments of Faculty of Engineering and Technology and Faculty of Computer Application attended the Workshop.
<b>Orientation Session on NAAC SSR-Collation of Evidence / Supporting Documents (Part I)</b> Resource Persons: Dr. Naresh Grover (PVC, MRIIRS), Dr. Rashima Mahajan Mr. Anubhav Khandelwal	Online session via MS-Teams was organized for Deans/Directors, Head of the Departments, and respective NAAC coordinators on 6 <sup>th</sup> July 2020 to understand the requirement for Criteria 1 and 2 and for submission of required documents for the respective parameters. No. of Participants: 122
<b>Orientation Session on NAAC SSR-Collation of Evidence/Supporting Documents (Part II)</b> Resource Person: Dr. Naresh Grover (PVC, MRIIRS) Dr. Brijesh Kumar Dr. Rashima Mahajan Dr. Poonam Nandal	Online session via MS-Teams was organized for Deans/Directors, Head of the Departments and respective NAAC coordinators on 8 <sup>th</sup> July 2020 to understand the requirement for Criteria 3, 4 and 5 and for submission of required documents for the respective parameters. No. of Participants: 106
<b>MOOC Orientation Program</b> Resource Person: Dr. N K Chadha- Chairman CDP, MRIIRS	MOOC Orientation Program was jointly organized by CDP, MRIIRS and IQAC, MRIIRS on August 28, 2020 via online mode. The programme was attended by 31 faculty members including Deans/Directors and HODs of different departments. The details for writing proposals and developing MOOCs were shared with all the attendees.



<p><b>Workshop on usage of updated modules of EMS under e-governance</b></p> <p>Resource Persons: Ms. Nidhi Garg and Ms. Ila Chaudhary (MRIIRS-EMS Team)</p>	<p>Two days hands-on workshop on the usage of updated modules of EMS (CO-PO Attainment and Faculty Profile) was conducted on 8<sup>th</sup> Aug 2020 and 11<sup>th</sup> Aug 2020 for all Deans/Directors, Head of the Departments and respective EMS coordinators. The attendees would be able to use and impart further training to respective department faculty members for efficient incorporation of records via EMS.</p> <p>A total number of 126 participant attended this online training on 8<sup>th</sup> Aug and 33 participants attended on 11<sup>th</sup> Aug 2020.</p>
<p><b>Virtual Training Program on Advanced Applications of Office 365</b></p> <p>Resource Persons: Mr. Kaushik Bishwas and Ms. Pallavi (Microsoft)</p>	<p>IQAC-MRIIRS and IT Dept-MRIIRS in association with Microsoft organized a 2-days Virtual Training Program on more Advanced Applications of Office 365. The training program was conducted on 23<sup>rd</sup> and 28<sup>th</sup> Sep 2020. The faculty members shall be benefited with utilizing the advanced modules of Office 365 including restricting presentation rights in Teams Meetings, Policy setting for restricting attendee rights, organizing tasks through Planner in teams, Integrating Planner in staff group and Insights app-analytical data for individual students.</p>
<p><b>Session on Content Design for Online Courses</b></p> <p>Resource Persons: Prof. Jagat Bhushan Nadda (Director-CEC) and Dr. Nageshwar Nath (Joint Director- CEC)</p>	<p>A session on Content Design for Online Courses was conducted on 24<sup>th</sup> Sep 2020 for the faculty members of MRIIRS in collaboration with Consortium for Educational Communication. CEC is one of the largest repositories of digitized educational content in the country, and the National Coordinator for Massive Open Online Courses for SWAYAM platform of MHRD and for SWAYAM Prabha DTH channels offering a bouquet of 11 educational channels in various disciplines. Faculty members got insights of the process of Content Design for Online Courses and the subsequent development of MOOC.</p>
<p><b>FDP on Quality Teaching Learning and Student Mentoring Processes during Pandemic</b></p> <p>Resource Persons: Dr. Sanjay Srivastava (VC, MRIIRS) Dr. Naresh Grover (PVC, MRIIRS) Dr. V K Mahna (Advisor IQAC) Dr. Sandeep Grover (Prof, J C Bose University) Dr. Sangeeta Banga (Dean Academics, MRU) Dr. Brijesh Kumar (Assoc Dean Acad, MRIIRS) Dr. Rashima Mahajan (Director IQAC, MRIIRS)</p>	<p>FDP on Quality Teaching Learning and Student Mentoring Processes was conducted during the first week of February 2021 (1<sup>st</sup>-5<sup>th</sup> Feb).</p> <p>The major processes coverage importance and analysis of Stakeholder Feedback, Designing of interdisciplinary (Open Elective and Value Added) Courses, requirement and planning of customized Teaching Learning Methodologies, Drafting Strategic Perspective Plans in an effective manner and Student Mentorship were discussed with group assignment sessions.</p>

<b>Quality Initiatives towards more flexibility in Academics as per NEP: An Awareness Program</b> Resource Persons: Dr. Naresh Grover (PVC, MRIIRS) Dr. V K Mahna (Advisor IQAC) Dr. Sandeep Grover (Prof., J C Bose University)	An awareness program on Quality Initiatives towards more flexibility in Academics as per NEP was conducted on Feb 20, 2021. A total number of 43 participants attended the orientation program which was organized in collaboration with J C Bose University of Science and Technology, YMCA, Faridabad.
<b>Total Quality Management in Teaching-Learning Practices: A Collaborative Program</b> Dr. Naresh Grover (PVC, MRIIRS) Dr. V. K. Mahna (Professor Emeritus and Advisor IQAC, MRIIRS) Dr. Sandeep Grover (J C Bose University)	Training program on Total Quality Management in Teaching-Learning Practices was conducted on 6 <sup>th</sup> March 2021. The participants were Deans/Directors of different Faculties of MRIIRS and Head of the Departments. The primary purpose of the training program was to generate awareness for TQM in higher education and to expose the participants the intent of TQM and Standard Practice of TQM in Higher Education. In addition, objective was to empower the team members to promptly implement TQM in their respective departments. (Participants: 45)
<b>Quality Assurance via imparting Quality Services: An orientation Program for Administrative Staff</b> Dr. Rashima Mahajan Dr. Virender Narula Dr. Brijesh Kumar	An orientation Program for Administrative Staff was conducted on 20 <sup>th</sup> March 2021. The title of the program was "Quality Assurance via imparting Quality Services". The first session highlighted the importance of imparting quality services. The ways of imparting efficient and effective student support services were elaborated during the second session. The impact of service quality on student satisfaction was elaborated during last session. (Participants: 26)
<b>Workshop on Virtual Labs</b> Resource Persons: Mr. Tanmay Das, Mr. Prateek Sharma & Mr. Shivam Sundaram	An online Workshop on Virtual Labs was organized successfully on 23 <sup>rd</sup> April 2021 by the Virtual Labs team, IIT Delhi for faculty members & students from various disciplines (Applied Sciences, CSE, ECE / EEE, ME, CE & FCA). A total number of 39 Faculty members & 336 Students attended the workshop.
<b>Training Program on 'Online Showcasing of Examination Answer Books via EMS': A Quality Initiative</b> Resource Persons: Dr. Naresh Grover (PVC, MRIIRS) Ms. Nidhi Garg and Mr. Vinay (Central EMS coordinators)	An Awareness Workshop on usage of module of 'Online Showcasing of Examination Answer Books via EMS' was conducted on 26 <sup>th</sup> May 2021. It was attended by more than 70 faculty members including Deans/Directors, HoDs, Department EMS coordinators and examination team.



<p><b>Virtual Quality Conclave-2021</b> <b>(Theme: Quality in Education)</b></p> <p>Resource Persons: Dr. Sarita Ahlawat, BIRAC-BIG Innovator, TBIU, IIT-Delhi &amp; Head-Living Science Group Professor Binod Khadria Former Professor of Economics, Education and International Migration and Chairperson, Zakir Husain Centre for Educational Studies, School of Social Sciences, Jawaharlal Nehru University, New Delhi Mr. Umesh Kumar Heading Security for one of the Central government projects. Skilled professional having 28+ years of rich experience.</p>	<p>IQAC at MRIIRS successfully organized the Virtual Quality Conclave-2021 on May 29, 2021 to deliberate on how to maintain Quality in Education through the change in Education Dynamics around the World due to the Pandemic.</p> <p>A total number of 194 participants across the fields who were actively involved during the sessions. The need to deliberate on Student Centric Models to have focused learning by involving students in the Quality work, the need of Academic Freedom for Quality Education to make system more inclusive and cyber safe education with the importance of keeping yourself protected in today's cyber world was discussed in detail.</p> <p>The sessions were focused on the investing in Quality education to nourish translational academic research leading towards technology that people can use.</p>
<p><b>Web Training Session on 'Urkund Anti-Plagiarism Software', June 01, 2021</b></p> <p>Resource Person: Ms. Priti Rathi, Product Training Manager, Galactic, Pune</p>	<p>A training Session on "Urkund Anti-Plagiarism Software" for faculty members and Library associates on 1<sup>st</sup> June 2021. It was delivered by Ms. Priti Rathi, Product Training Manager, Galactic, Pune selected by the INFLIBNET centre for all the Indian Universities under the aegis of MHRD. The step-by-step usage of Urkund Anti-Plagiarism Software was explained in detail. Urkund renamed itself as Ouriginal. Users can check or run similarity reports in 30 languages.</p>
<p><b>Elsevier Author Workshop: Publishing Research Articles in Top Journals</b></p> <p>Mr. Vishal Gupta (Senior Customer Consultant, Elsevier)</p>	<p>A National Level Author workshop on 'Publishing Research Articles in Top Journals' was organized on June 11, 2021 in association with Elsevier.</p> <p>An active participation was witnessed in terms of more than 500 academicians and research scholars from almost 100 different Institutes across India. The whole flow starting from understanding Research, relating Research with Literature, writing Impressive Manuscripts, finding Quality Journals for Publishing Research, reading Editor's mind, getting your own research Published in Quality Journals till improving the Citations of the Research Publications by promoting your own Research was elaborated.</p>
<p><b>Awareness Program on ICT Resources for Quality Delivery</b></p> <p>Resource Persons Dr. Naresh Grover (PVC-MRIIRS) Mr. Sabyasachi Sen (GM-IT) Dr. Brijesh Kumar (Associate Dean Academics)</p>	<p>Awareness Program on ICT Resources for Quality Assurance was conducted on 19<sup>th</sup> June 2021. Participants were demonstrated with the methods of using ICT tools in blended mode. The insights about the updated modules of EMS and how to incorporate EMS and ICT tools for imparting quality teaching learning were provided in detail.</p>



## B. IQAC Meetings

During the year 2020-21, IQAC meetings for all the **four** quarters were held in which representatives of all stakeholders including experts from industry were invited.

## C. Major Quality Initiatives Undertaken

### **ISO9001:2015 Certification for 3 central units: Examination, Central Library and CRC/CDC**

Manav Rachna International Institute of Research & Studies (MRIIRS) is now 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.
- The ISO 9001:2015 Certification of the institution may be verified from the following links <https://www.iafcertsearch.org/act/e05a337b-0292-5dd7-9188-1eaed74d76a6> and <http://www.bsc-icc.com/check-registration-status/>

### **Conduct of Environment Green Audit**

Environment Green Audit was conducted by the certification body BSCIC certifications Pvt. Ltd. on 18<sup>th</sup> and 19<sup>th</sup> Feb 2021. The certificate of Green Environment Audit was issued to MRIIRS, 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

### **Initiatives for Blended Teaching and Learning**

**Mapping of Practical course content with that of Virtual Labs – IIT Delhi for all the programmes being offered by FET and FCA so as to conduct all the relevant lab courses through Virtual Lab simulators.** MRIIRS is an official Nodal Centre of Virtual Labs, IIT Delhi under Expression of Interest among two organizations.

**Association of Spoken Tutorial Program, IIT Bombay with MRIIRS to learn free and Open-Source Software through Spoken Tutorial:** MRIIRS is now officially an Academic Centre for Education through ICT, Govt. of India to spread IT Literacy all over India.

**MRIIRS is officially now a network institute of IIRS outreach network. Participants will have an exciting learning experience in the field of Remote Sensing, GIS and GNSS technologies and their applications.**

**Credit Transfer for successful completion of MOOCs from multiple platforms including SWAYAM, Coursera, Edx Udemy etc.**

### **Development of module for Online Showcasing of Examination Answer Books**

MRIIRS follows well-defined Examination Processes including **Showcasing of Evaluated Examination Answer Books** (For both Mid and End Semester Examination) to the students for their remarks with respect to any totaling error / unmarked question.

- This whole module has been developed successfully online through EMS.
- Answer books are now uploaded on the EMS and showcased to the students after evaluation.
- Students are able to review their evaluated answer books and report their observation in terms of any totaling error while mentioning the section/question no. and any unchecked question.
- The report is accessible only at the end of CoE for further verification and rectification.

### **Online Showcasing of Examination Answer Books via EMS: An Awareness Workshop**

Resource Persons:

Dr. Naresh Grover (PVC, MRIIRS)

Dr. N K Sharma, CoE, MRIIRS

Ms. Nidhi Garg and Mr. Vinay (Central EMS coordinators)



An awareness workshop on usage of module of 'Online Showcasing of Examination Answer Books via EMS' was conducted on 26<sup>th</sup> May 2021. It was attended by more than 70 faculty members including Deans/Directors, HoDs, Department EMS coordinators and examination team.

Dr. Rashima Mahajan (Director, IQAC) apprised the development of this particular module on EMS has been done to showcase the evaluated answer books to the students so that they can review their marked answer books and submit their remarks with respect to any totaling error or unmarked question. The details of developed module and Standard Operating Procedures to carry forward with this module were elaborated by Dr. Naresh Grover (PVC, MRIIRS). The whole flow starting from uploading of marked answer books till report generation at the controller of examination end, was detailed. Further, the allocation of examiners at the end of CoE and updating of marks accordingly were explained by Dr. N K Sharma (CoE, MRIIRS).

The step-by-step hands-on training on EMS related to this module was provided by Ms. Nidhi Garg (Central EMS Coordinator, MRIIRS). She explained the details including uploading of marked answer books, viewing the marked answer books at student end, how can a student register his remarks online, reception of review reports at the end of CoE, re-allocation of answer books with certain remarks with respect to totaling error and any unmarked question followed by the modification of marks, if required.

Very encouraging feedback was received after the live demo of respective module. Few snapshots of the training conducted, have been attached in the report.

#### **Collation and Analysis of Stakeholder Feedback on Curricula, Course Delivery and Generic Facilities**

**Stakeholder's feedback on Curricula and Generic Facilities was collated. Following stakeholders were contacted to provide the feedback on Curricula during the year:**

- ✓ **Students**
- ✓ **Faculty members**
- ✓ **Alumni members**
- ✓ **Industry Experts/ Employers**

***Students as major stakeholders also provided the feedback on Generic Facilities and Course Delivery***

- ✓ **The action taken reports were received by the respective Committees of Feedback and their recommendations were reviewed during the 2<sup>nd</sup> Quarterly meeting of IQAC held in Dec 21, 2020.**



### **Conduct of Academic Audit for AY 2019-20**

Academic Audit for AY 2019-20 was conducted during the month of November 2020. The action taken reports were received and reviewed during the 3<sup>rd</sup> Quarterly meeting of IQAC held on March 19, 2021.

### **Conduct of Administrative Audit for AY 2019-20**

The Administrative Audit of all the Sections enlisted under 6 clusters was conducted during the month of March 2021. The action taken reports were received and reviewed during the 4<sup>th</sup> Quarterly meeting of IQAC held on June 29, 2021.

### **E-Governance initiatives taken during AY2020-21**

During AY2020-21, multiple e-governance initiatives were taken at MRIIRS including:

- Conventional Examination Processes were implemented with a concept of through online mode via Microsoft Teams, Google Meet, i-cloud EMS, Mettle (for MRNAT Entrance Examination), Ginger- Online Exam Engine
- Introduction of a module for 'Online showcasing of Evaluated Examination Answer Books' through i-cloud EMS
- Update in User Interfaces/Dashboards/Staff profile
- Admission Module – Bulk Email Sending
- Koha Library Software: Library has migrated to Open Source based LMS Koha from proprietary based LMS Libsys. During this period, Koha has been used for circulation modules in the library.
- Module to conduct open elective courses is also fully functional now. The respective courses are allocated across the different Programmes of the University through EMS only.
- Usage of Virtual-Labs to conduct of Practical classes for the various courses of Engineering and Computer Applications
- Association of Spoken Tutorial Program, IIT Bombay with MRIIRS to learn free and Open-Source Software through Spoken Tutorial: MRIIRS is now officially an Academic Center for Education through ICT, Govt. of India to spread IT Literacy all over India.

For successful implementation of e-Governance, training programmes were conducted for teaching and non-teaching members of MRIIRS by IQAC, MRIIRS.

- Uploading of Question Papers on examination software including Mettle, Ginger, MS-Teams
- Usage of a module for 'Online showcasing of Evaluated Examination Answer Books' through i-cloud EMS
- Usage of updated User Interfaces/Dashboards/Staff Profile Module on EMS
- Training Programmes to refresh the usage of modules for Course Outcome Attainment and Program Outcome Attainment via Direct and Indirect tools
- Web Training Session on "Urkund Anti-Plagiarism Software"
- Training Sessions for Advanced Applications of Office 365
- Training programs for Usage of Virtual labs (Students and Faculty Members)

## 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)'

CDC is the learning and training arm of Manav Rachna International Institute of Research Studies which looks after the skill enhancement requirements of students. Whereas, CRC helps in getting the students placed.

### CDC operates on the following philosophy -

- Do intelligent self-assessment with an objective of exploring personal attributes (Skills, Values, Strengths, Motivations, etc.)
- Explore opportunities in the Market and make informed career decisions
- Identify and bridge Industry academia gap
- Create a compelling action plan (help to create effective Resume, Cover-Letter as well as preparation for Personal Interview etc.)
- To mentor students for placement in the company of their choice

CDC is accorded with the profound responsibility of enhancing employability skills of the students – an aspect that has taken as much prominence as the technical know how in the corporate world. We impart training in Personality Development, Communication & Soft Skills, Verbal Ability, and Quantitative & Reasoning Aptitude, spread across semesters, as an embedded part of every course available at MRIIRS.

### Employability Training, Assessments & Preparation for placement

CDC has also knotted a tie with leading skills assessment Platforms to foster detailed Training need analysis of the students. These assessments evaluate students on various employability skills. Crash courses and Industry specific trainings are conducted before the start of the placement season so that the students are better equipped to handle placement opportunities.





### Coaching and Mentoring Aptitude & Personality Development

The Dept. provides extensive process oriented and activity driven training on Personality Development, Business Communication, Business English and Aptitude Development. These trainings are delivered in two formats – Regular Semester coaching and Crash courses.

#### Program Structure

<b>First Year</b>	: Professional Communication, Communication
<b>Second Year</b>	: Aptitude, Reasoning, Personality Development & Communication Skills
<b>Third Year</b>	: Aptitude, Reasoning, Personality Development
<b>Fourth Year</b>	: Employability Augmentation – Cognitive, Group Discussion & Personal Interview
<b>Crash Course</b>	: Company Specific Programs on Aptitude, VAT, GD & PI

### Curriculum & Delivery Approach

#### i. Curriculum Design & Development

- Focus: To bridge Industry – Academia Gap
- Consultation with Industry Experts, Students, Employers and Faculties
- Revision of Curriculum as per latest Industry requirements
- Linked to description of learning outcomes & quality assurance taking into account Bloom's Taxonomy

#### b) Delivery Approach

- Customized Training Plans for various programmes
- Proper focus & Extra hand holding to slow learn
- Quizzes & Events
- Case Study Analysis
- Self paced learning
- Experiential Learning
- Video Based Learning



- Use of technology & software to support learning

### Teaching Aids

- Handbooks
- Power Point Presentation
- Online Mock Tests
- Online Assignments
- Audio-Visual Aids
- Case Studies



### 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 Programme

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

With the Pandemic posing challenges and recruiters trying to regain their pre-covid hiring pace, Corporate Resource Centre initiated the Campus drives for **Placement Session 2020-21 in August 2021**. This includes renowned bulk recruiters like **Capgemini, TCS, HCL Technologies, Infosys, Accenture, Cognizant, Coforge, Infogain, IBM (India), Interra, JBM, Cargo Flash, Lido Learning** and many more...

Product-based companies like **NTT Data, Grape City, Indus Valley Partner, ADP, EX2 Solutions, Morgan Stanley (Wiley), Nagarro, Newgen, Nokia, Newgen, HSBC, Maven Wave, Crowe LLP, Daffodil, New Gen 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 2020-21 Batch :

Company Name	CTC (Rs LPA)	No. of selected Students
AltioStar Networks India Pvt Ltd	Rs 12.00 LPA	1
Solveda Software India Pvt Ltd	Rs 11.44 LPA	1
HILTI	Rs 10.17 LPA	1
Think & Learn (Byju's)	Rs 10.00 LPA	1
Indus Valley Partner	Rs 9.30 LPA	1
EX2 Solutions	Rs 8.00 LPA	1
RBS Services India Pvt. Ltd	Rs 7.73 LPA	1
TSYS Card Tech Services India LLP	Rs 7.46 LPA	1
TCS	Rs 7.00 LPA	1
HSBC Technology India	Rs 7.00 LPA	2
Morgan Stanley (Wiley)	Rs 7.00 LPA	2
EX2 Solutions	Rs 7.00 LPA	3
Ivy Software Development Services Private Limited	Rs 6.95 LPA	1
Mavenir System pvt ltd	Rs 6.95 LPA	2
Jaro Education	Rs 6.40 LPA & Rs 8.46 LPA	5
Virtuous Transactional Analytics Pvt. Ltd	Rs 6.00 LPA	1
Drone Imaging and Information Services Haryana	Rs 6.00 LPA	1
Square Yard	Rs 6.00 LPA	1
AVIZVA Solutions Private limited	Rs 6.00 LPA	1
Flipkart	Rs 5.34 LPA	3
IBM	Rs 5.10 LPA	1
Dyson India	Rs 5.07 LPA	1
Revature	Rs 5.00 LPA	2
ADP India Pvt. Ltd.	Rs 5.00 LPA	4
Paytm Payments Bank	Rs 5.00 LPA	1
Capgemini	Rs 3.80 LPA	41
TCS	Rs 3.36 LPA	33
Cognizant	Rs 4.00 LPA	27
Lido Learning	Rs 4 LPA – Rs 10.00 LPA	22
Coforge	Rs 3.65 LPA	20
Cargo Flash Infotech Pvt Ltd (3)	Rs 3.00 LPA	14
JBM	Rs 3.00 LPA	14
Accenture	Rs 4.50 LPA & Rs 6.50 LPA	10
HCL Technologies	Rs 3.50 LPA - Rs 3.65 LPA	9
Infogain	Rs 3.75 LPA	9



## Our Esteemed Recruiters



### 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)

### SIH 2020 online edition:

Smart India Hackathon 2020 (SIH 2020) is a nationwide initiative of MHRD which provides a platform to the students to solve some of the pressing problems, which we face in our daily lives, and thus inculcate a culture of product innovation and a mindset of problem solving.

Smart India Hackathon 2020 aims at promoting innovation, Out-of-the-Box thinking in young minds, especially engineering students from across the country. Students had the opportunity to work on challenges faced by various Ministries, Departments, Industries, PSUs and NGOs to create world class solutions.

This edition of Smart India Hackathon involved conducting Internal Hackathon which was held on January 17<sup>th</sup> and 18<sup>th</sup>, 2020 at Manav Rachna Innovation and Incubation Centre.

The internal Hackathon was scheduled to select Top 7 Teams, 5 from Software and 2 from Hardware categories. These teams represented Manav Rachna International Institute of Research and Studies for the next stage in case the proposed solution gets selected.





## Grand Opportunity For All Technology Students!

### Submit Ideas for Smart India Hackathon 2020

### PROBLEM STATEMENTS RELEASED! \*\*



**SMART INDIA HACKATHON 2020**

For eligibility & registration, visit: [www.sih.gov.in](http://www.sih.gov.in)

**Eligibility Criteria**

- All technology students from AICTE/UGC/NT/NET/RSER/INIT/ Government approved educational institutions.
- Team of 6 students is mandatory of which at least one should be a female candidate.

**Process for SIH 2020**

- Problem statements are available on [www.sih.gov.in](http://www.sih.gov.in)
- The Single Point Of Contact (SPOC) from every institution should register on [www.sih.gov.in](http://www.sih.gov.in) starting from **December 1, 2019**
- Maximum 7 teams (5 teams for Software edition + 2 teams for Hardware edition) per institution are allowed to participate in SIH2020
- For shortlisting these top 7 teams, every institution is expected to organize internal hackathon before submission of the selected teams on SIH portal.
- Details of internal hackathon (e.g. date, number of student participation, jury member, evaluation process etc.) need to be uploaded on the SIH portal along with few photographs of the internal hackathon.
- Important: All submission should come from the college SPOC only. Submission of ideas directly from students will not be accepted.**
- For more details of the idea submission process, please check: <http://www.sih.gov.in/pdf/IdeasubmissionprocessSIH2020.pdf>

WE HAVE

**SOFTWARE & HARDWARE**

**EDITIONS**

**Tentative Date**

14<sup>th</sup> & 15<sup>th</sup>  
March, 2020

**Tentative Date**

6<sup>th</sup> to 10<sup>th</sup>  
July, 2020

\*\* Problem statements will be released in batches at [www.sih.gov.in](http://www.sih.gov.in)

**SECTORS**

- Agriculture & Rural Development
- Clean Water
- Robotics and Drones


- Healthcare & Biomedical devices
- Renewable Energy
- Security & Surveillance

- Smart Communication
- Smart Vehicles
- Waste Management

- Food Processing
- Miscellaneous
- Terms & conditions apply




DOWNLOAD  
Smart India Hackathon SIH App  
on Google Play



[sih@aicte-india.org](mailto:sih@aicte-india.org)



[sih.gov.in](http://sih.gov.in)



[@sih2020](https://twitter.com/sih2020)



### Centre of Excellence for Solar:

Dr. Ashwini K Aggarwal, Director, Government Affairs, Applied Materials (India) inaugurated #Centre of Excellence for #SolarPVSkills at #ManavRachna Campus on the occasion of 74<sup>th</sup> Founder's Day.

The Centre is a Joint Initiative of Electronics Skill Sector Council of India (#ESSCI), #AppliedMaterials and Manav Rachna.

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.

A training program will be introduced that will involve active participation and guidance of Solar Experts from #ESSCI and Applied Materials. 3KW Solar System has been assigned for carrying out experimental work during the training program.



## CISCO MOU:


Manav Rachna is proud to associate with #CISCO Networking Academy.

Under this association, students of #ManavRachna will get access to various high-quality computer programming and #IT domain courses that have been developed under CISCO Networking Academy. Students will get 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.

Students will receive certificate of completion once they complete the course through Manav Rachna CISCO Networking Academy. The advantage of these programs is that they are self-paced as well as instructor driven which means that students will also interact with the instructors for a better understanding of the course content.

Students will also get to work on assignments and quizzes which are part of the course curriculum and this will help them to enhance their skills to the levels which meet the requirements by the industries. The aim of these high-tech programs is to make the students job-achiever with a support of professional certification from CISCO. There's a provision of Scholarship up to 70% for Professional Certification Exam fees on the basis of merit in the CISCO #NETACAD programs.

**CISCO Networking Academy at MRIIRS:** Students get access to 17 high-quality computer programming and IT domain courses of CISCO, which include programming courses on Python, C and C++, Linux Fundamentals, IoT and many more. Here, NIIT Foundation works as an Academy Support Centre. Students also get the opportunity to work on various real-time projects.



**Today every field  
needs technology skills**  
Prepare for your future career by  
enrolling in Cisco courses.

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



## 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 #RoboticProcessAutomation 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 will get 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. A certificate shall be 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 shall be available for students who shall be trained for different Job profiles such as RPA Developer, Solution Architect, Business Analyst, Implementation Manager, and Infrastructure Engineer, among others.

The RPA course will also be offered to the students as a part of their academic curriculum so that they can achieve employment in field associated with RPA. This is one of the fastest growing domains as many corporates are shifting from manual to Robotic Controlled processes. Students can 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 UiPath Academic Alliance Programme.

**UiPath World's Leader in Robotic Process Automation (RPA) Collaborates with MRIIRS:** This collaboration has opened the doors for the students of Manav Rachna to work on the tool suite of UiPath for designing Robots used in IT automation Job Profile. Students get access to the UI Path Studio software and learning material. A certificate is awarded post completion of the learning modules available on the LMS of UiPath.





### GITHUB MoU:

Manav Rachna is glad to partner with GitHub ...

Under the GitHub Campus Program, student and faculty members will 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 will be used in various technical departments of the University. Teacher training will be conducted to become well versed with GitHub fundamental under Campus Advisor program. Manav Rachna is glad to partner with GitHub: Under the GitHub campus program, student and faculty members are getting a package of technical tools, training and support for growing technical communities in Manav Rachna Campus. 100 USD credit for Microsoft Azure and other benefits are obtained by Manav Rachna students and faculty members under this partnership.



### Scratch Olympiad 2021:

Manav Rachna is the partner of the Indian National Stage of the International Scratch Creative Programming Olympiad 2021!!!!

Starting 2017 Scratch Olympiad unites participants from all continents.

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.

Opportunities for 7 years old to adults aspirants from any corner of the country becomes participants in the Indian National Selection Stage of the Scratch Olympiad 2021.

MRIIRS hosted the prestigious International Scratch Creative Programming Olympiad 2021 in association with Robbo.



## Incubate IND:

Manav Rachna brings forth a hands-on Session on Spark AR 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, Incubate IND is happy to partner with Facebook to support the new Spark AR Creators via a course of 3 weeks, helping them to implement those skills in the real-time AR Effect Hackathon Challenge.

**INCUBATE IND** **Spark AR Labs** **MANAV RACHNA**

**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)

Manav Rachna International Institute of Research and Studies is glad to partner with Code Club and CoderDojo. Both of these initiatives are running successfully across the Globe by Raspberry Pi Foundation (a UK registered charity). The aim of these programmes is to develop coding talent in the community by conducting regular training programs on coding. MRIIRS partnered with Facebook Spark AR Lab for conducting a series of workshops on Augmented Reality using Spark AR Studio in the month of June 2021.



### **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 will donate 20 Kits of Jetson Nano board to Manav Rachna International Institute of Research and Studies to support the exciting Teaching/Curriculum Development. This will also enable students to be a part of the NVIDIA Developer program which will give 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.



### **IICDC:**

An opportunity to leverage their talent and convert their innovation to a startup, the India Innovation Challenge Design Contest (IICDC) 2019, launched by Texas Instruments India in association with the Department of Science and Technology (DST) and Indian Institute of Management (IIM), Bangalore has provided young tech Entrepreneurs with an ecosystem and support to nurture their entrepreneurial spirit.

#### **Awards and Recognition:**

- 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 Semi-finalist Teams & many more.



## Toycathon 2021:

Manav Rachna is hosting Toy Hackathon Grand Finale from June 22 to June 24, 2021 being organised by the Ministry of Education.

Manav Rachna International Institute of Research and Studies has been selected by AICTE for hosting Toycathon 2021 Grand Finale, an event conducted by Govt. of India to promote indigenous Toy Industry. The event is being organised jointly by Ministry of Education in coordination with five other Ministries viz: Ministry of Women and Child Development (MWCD), Ministry of Information and Broadcasting, Ministry of Commerce & Industry, Ministry of Small and Medium Enterprises (MSME) and Ministry of Textiles. Ministry of Education's Innovation Cell at All India Council for Technical Education (AICTE) is acting as nodal agency for organizing Toycathon 2021.

The Toycathon 2021 began with inviting problem statements and finalising top problem statements, identifying Nodal Centres, identifying evaluators, experts and dignitaries, a month prior to grand finale. Then the participation was invited from students and professionals. Around 14130 teams submitted 17770 different ideas on innovative Toys based on Themes like Education, Indian History, Culture and Moral values, Social and Human values, Psychological Development, Agricultural Implements and Tools and Knowledge about India.

The digital Toycathon has received a phenomenal response from enthusiastic innovators and now 1567 selected teams will be participating virtually through 85 Nodal Centres.

During the Grand Finale, the selected teams will virtually present their toys in front of Jury panel comprises of Experts from premier institutes. The teams will receive mentoring from experts during the hackathon and teams will have to improve their Toys / Games as per expert suggestions.

**MRIIRS hosted India's First Toy Hackathon:** The Hon'ble Prime Minister Sh. Narendra Modi interacted with the finalists of Toycathon 2021 through video conferencing on June 24, 2021. **Manav Rachna International Institute of Research and Studies was the only University among 6 Institutions chosen as a Nodal Centre for the Live interaction with our Hon'ble PM Shri Narendra Modi.** Manav Rachna was selected as a Nodal Centre by AICTE for hosting Toycathon 2021 Grand Finale jointly organized 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.



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

Established in February 2013 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 Corporate Classroom Lectures, Seminars, Workshops and Alumni Meets. 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.

Number of Alumni Events Conducted from July 1 <sup>st</sup> , 2020 to June 30 <sup>th</sup> , 2021		
S. No.	Faculty	No. of Events Conducted
1	FET	0
2	FAHS	0
3	FCA	0
4	FMS	0
5	FMeh	5
6	FCBS	0
7	FBSS	0
8	Central Level	4
	<b>Total</b>	9

### Meetings held during Academic Year (July 2020 – June 2021):

S. No.	Description	Date
1	Faculty Coordinators Meeting	9/8/2020



## 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 at/during Campus.

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

**Goal:** A strong connects 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 in Campus.

**Modus Operandi:** Front Desk at E-Block becomes the first point of contact for prospective as well as enrolled students. The centre connects the student to the end decision making competent authority on the matter or obtains the final decision (or resolution) eliminating the need for multi party liaisons by the student himself/herself.

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

S. No.	Category	Details
1.	Admission & Procedural Queries	The University admissions is a multi-stage process including the filling up of Admission Form, Entrance Exam, Creation of merit list, displaying of results on website, Physical counseling before culminating in the final admission to the institution of choice. All admission and counseling related queries are handled by SFC.
2.	Academic Queries	<p>Few broad categories under the cell:</p> <ul style="list-style-type: none"> <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> </ul> <p>For all procedures that are handled in the campus, preliminary we attempt to resolve issues on an informal and educational basis, ensuring that those who are involved understand each other's point of view, before moving towards</p>



		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.
3.	Financial Requests	<p>The unit caters to the Centralized &amp; Decentralized Finance Facilities that provides assistance in fee Collection, Estate, Student Welfare, Housing facility fee, Board of Sports, Revaluation fee, Examination fee &amp; others.</p> <p>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>
4.	Housing Facilities	<p>Few broad areas where SFC office can be reached for:</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 having vast exposure in the corporate climate.</p>
5.	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 Book</li> <li>• Academic Grievances</li> <li>• Administrative Grievances</li> <li>• Supplementary Examinations</li> </ul>
6.	General Queries	In case the right point of contact is not known for any query, raised by a scholar, S/he is welcome to contact SFC and may seek right guidance.
7.	Campus Tours	<p>The Admissions Facilitation Centre also 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% scholarship holders are called for Regular interaction and assigned small projects to assist central departments.
3.	Scholar Interaction	Meeting with scholarship beneficiary for brainstorm ideas for improvement of services and opportunities available to students on campus.
4.	Class Representative Meet	For exchange of thoughts with students at large and for 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 (Call, SMS and Whatsapp) and email services at +91 730381 9911 / +91 730382 9911 or [sfc@manavrachna.edu.in](mailto:sfc@manavrachna.edu.in)





## CHAPTER-6

### INFRASTRUCTURAL FACILITIES

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

Dr. O.P. Bhalla Central Library and its constituent Departmental Level Libraries and Faculty Libraries strengthened the Research and Academic outreach during FY 2020-21. This strengthened the Library Services, Collection and Resources by adding 296 volumes of print books. The Library renewed the subscription to Ebsco IEEE's ASPP collection in addition to renewal of online databases namely ASME, ASCE, J-Gate Engineering and Technology, J-Gate Social and Management Sciences, Ebsco DOSS, Fedgate Single Window, Ebsco Academic eBooks Collection, Ebsco Art and Architecture databases, Ebsco business source elite, Anti-plagiarism Software, Turnitin & Urkund/Ouriginal, Remote access solution, SPSS Analysis Tool and institutional membership of Developing Library Network (DELNET), and the American Library Membership.

The collection strength of the Library is as below:

Print Books	1,20,091 Volumes, Titles 23330
E-Books	1,85,467
Print Journals and Magazines	127
E-Journals	41000
Online Databases	16
E-Readers – Kindles	16
CDs and DVDs	3923
Project Reports	2996
Bound Journals	1272
Theses	185
Library Portal	<a href="http://library.mriirs.edu.in">library.mriirs.edu.in</a>
Library Online Catalog	<a href="http://mriirsopac.informaticsglobal.com">mriirsopac.informaticsglobal.com</a>
Single Window Discovery Solution	<a href="http://central-library.MRIIRS.edu.in/single-window-search-for-all-library-resources/">http://central-library.MRIIRS.edu.in/single-window-search-for-all-library-resources/</a>
Remote Access to the Library Resources	<a href="http://Mriirs.mapmyaccess.com">Mriirs.mapmyaccess.com</a>
Library Management Software	KOHA



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



Team-Library



## 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 IcloudNxt, 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 process of hosting a in-house web site which will provide all the information about the IT policies, acceptance of complaints and individual 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 CC TV 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, Lab View, Catia, Pro-E, Quark Express, Adobe Creative, Corel Draw, Sony Sound Forge, Prolog. MX roads, Microsoft Projects along with complete Microsoft Office 365 suite.
- The university campus is throughly 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

### 6.3 Healthcare Facilities

At the Manav Rachna Campus, a comprehensive range of Health and Welfare Services is accessible. The University maintains a well-equipped Dispensary for Emergency and minor medical concern. On-campus, the university has skilled Physician and Nursing personnel to handle medical emergencies.

Additionally, the University has two state-of-the-art, fully equipped ambulances to respond to any emergencies, assuring the greatest level of medical safety for staff and students alike. Apart from the First-Aid Room of the Campus and separate sick rooms facility for boys and girls, there is a state-of-the-art Out Patient Physiotherapy Department. The Medical Consultant is available for consultation during the specified hours on all working days.

Other facilities are as under:

**ICICI Lombard General Insurance** - Group Accident Policy Cover for all Employees / Students / Contractual Employees.

**Asian Hospital** - Tie up offers discount on Medical Facilities (All Employees & their Dependents & Students included). Discounts can be availed after showing I card.

**Metro Hospital - Tie up** offers discount on Medical Facilities ( All Employees & Students of MRIIRS included). Discounts can be availed after showing I 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 2<sup>nd</sup> 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 19<sup>th</sup> 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.















### **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 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.



## **CHAPTER – 7**

### **RESEARCH AND DEVELOPMENT**

Research plays a significant role in the process of conceptual thinking, Learning and Innovation. With the path-breaking innovations in both its curriculum & Research, the Institution is rapidly gaining a Legendary reputation globally. We live in a knowledge-driven economy, where Research and Development has become the key to sustainable economic growth, creating in the process, a competitive edge. Also, research in a university is everlasting, unending contribution to society and the mankind. The production of theoretical knowledge and integrated experiential findings are the two main aspects of research activities. The outcomes which are constantly augmented, corrected and revised is a natural corollary, but the huge data base created and the published material conceptualize by researcher-writers is indeed appreciable. This does serve as an index to the functioning of a reputed academic institution and also showcases the quality expression of its scholarly activities.

MRIIRS has aptly and genuinely carved its indomitable position as a research-driven institution. Across its 20-year journey with many milestones to its credit, MRIIRS has taken on the challenge of yielding applicable knowledge and dedicating itself towards several path breaking Research and Development initiatives. Since inception, MRIIRS has been striving to develop into an institution of excellence in education and research, in consonance with the contemporary and future needs of India through meaningful education, quality research and technological innovations. Research Programme at MRIIRS has evolved from the initial focus on fundamental research to vital contributions to both fundamental, experiential and empirical research in various academic disciplines and interdisciplinary areas. This shift has been gradual without any major impediment. It has yielded the desired objective of the creation of a viable, socially relevant research outputs. The endeavor is for the creation and continual expansion of this research temperament. The prime objective is to have strong focus on generation of original ideas and thoughts which thereupon would be connected with empirical works of subject-oriented researches in sciences, social sciences, humanities, management, technology and other disciplines offered by the University as areas of probe and investigation from time to time and shall subsume out-of-box thinking and innovation. This is further extrapolated to solution findings to social problems. Our research programme has practical import component which also sets in an important ingredient of social outreach and service.

There is always a time when the academicians are countered with statement that active research would take away the focus from teaching but it is important to believe that Good Teaching is a natural byproduct of Good Research and quality of research improves when faculty members are engaged in research as they would share latest developments with their students and would also make them understand newer ways of application of theory. Such faculty also prepares a good workforce for future who can be the game changers and not just the ones who look for lucrative packages.

In addition to offering formal Undergraduate and Post-graduate Programs, the MRIIRS actively encourage its faculty and students to undertake in house and



sponsored research and consultancy projects in order to strengthen the research and innovation profile of the Institution. Presently, institution is actively engaged in research in several areas of Engineering, Basic and Applied Sciences, Management, Literature, Physiotherapy, Nutrition & Dietetics, Health, Energy and Environment, 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 Innovation Catalyst (RIC) has been introduced at UG Level as a course with two credits from 2019.**

### **7.1 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 1.12 crore has been received during 2020-21 for various Research projects and setting-up Research and Development facilities at MRIIRS. The details for these projects are as provided here:

<b>Name of the Scheme/Project</b>	<b>Name of the Principal Investigator/ Co Investigator</b>	<b>Name of the Funding agency</b>	<b>Government /Non-Government</b>	<b>Department</b>	<b>Duration of the project</b>
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 & Pritam Paritosh Paul	DST, Ministry of Science & Technology, GOI	Government	Biotechnology	36 months
Bioformulation- A Novel Ecofriendly Solution Against Fungal Pathogens In Tomato	Sarita Sachdeva, Nidhi Didwania, Abhilasha Shourie, Ms. Deepti Sadana	Indian Oil Corporation through Ministry of Petroleum , GOI	Government	Biotechnology	36 months
Antecedents Leading To Capacity Building Of Women Entrepreneurs In Delhi/NCR	Meghna Chhabra	ICSSR-IMPRESS Project	Government	Management	24 months
Setting Up Of New Gen ledc (5 Years)	Monika Goel Bindu Agarwal & Mr. Karan	Enterpreneurship Development Institute of India (EDII), through NSTEDB, DST, GOI	Government	Bussiness Studies	60 months
Ratio Analysis & Business Evaluation	Bhavesh Prakash joshi, Meghna Chhabra	FFV Services Pvt Ltd	Non-Government	Management	24 months
Re-structuring of HR practises as per Covid-19 Protocols	Farhat Mohsin Anjali Singh	FFV SERVICES P LTD	Non-Government	Management / Business Studies	24 months



Goods and Services Tax (GST) Impact on competitiveness and performance of India Inc.	Nand Dhameja, Bhavesh Prakash Joshi	FFV SERVICES P LTD	Non-Government	Management	24 months
Performance Management Practices for employee wellbeing	Urvashi Sharma, Anindita Chatterjee Rao	FFV SERVICES P LTD	Non-Government	Management	24 months
Talent Management for employee retention	Surbhi Kapoor Priyanka Srivastava	FFV SERVICES P LTD	Non-Government	Management	24 months
Impact analysis of Consulting Services on audit quality	Jayender Verma, Bhavesh Prakash Joshi	FFV SERVICES P LTD	Non-Government	Management / Commerce	24 months
Role of Financial Services for fund management	Meghna Chhabra	FFV SERVICES P LTD	Non-Government	Management	24 months
Building Team Leadership	Sahil Malik, Anjali Singh	FFV SERVICES P LTD	Non-Government	Management / Business Studies	24 months
Digital Marketing: Impact on customer acquisition	Stuti Sahani Narinder Tanwar	FFV SERVICES P LTD	Non-Government	Management / Business Studies	17 months
Green HR Management Practices	Surbhi Kapoor	FFV SERVICES P LTD	Non-Government	Management	18 months
Succession Planning and Leadership Development	Deepti Dabas Hazarika	FFV SERVICES P LTD	Non-Government	Management	12 months
Need Analysis of Human Resource Information System	Ms Shilpa Arora	FFV SERVICES P LTD	Non-Government	Management	24 months
Corporate Entrepreneurship in MSMEs	Ms. Nidhi Tandon	FFV SERVICES P LTD	Non-Government	Commerce	18 months
Emerging trends: New Businesses and market development	Amit Seth	FFV SERVICES P LTD	Non-Government	Management	18 months
Design Analysis and Generation of Tool Path for Precision Machining of Aircraft Bracket Using 2-Axis Programming	Mr. Sushant Sharma	EC Blades Tools (P) Ltd	Non-Government	Mechanical Engineering	12 months
Design Analysis and Generation of Tool Path for Precision Machining of Centering Pin Using 2-Axis Programming	Mr. Prateek Mittal	EC Blades Tools (P) Ltd	Non-Government	Mechanical Engineering	12 months
Design Analysis and Generation of Tool Path for Precision Machining of Centering Bush Using 2-Axis Programming	Mr. Dinesh Chawla	EC Blades Tools (P) Ltd	Non-Government	Mechanical Engineering	12 months
Design Analysis and Generation of Tool Path for Precision Milling of Connecting Rod Using 3 Axis Programmin	Mr. Joydeep Chakroborty	EC Blades Tools (P) Ltd	Non-Government	Mechanical Engineering	12 months



Design Analysis and Generation of Tool Path for Precision Turning of Collector Pinions Using 2-Axis Programming	Devdutt	EC Blades Tools (P) Ltd	Non-Government	Mechanical Engineering	12 months
Application of Six Sigma Methodology to Solve Service-related issues in Telecom Industry	Virender Narula Mr. Bhupinder Singh	EC Blades Tools (P) Ltd	Non-Government	Mechanical Engineering	6 months
Experimental Study of Traveling Wire Electrochemical Spark Machining of Advanced Engineering Materials.	Basanta Bhuyan Mr. Arun Gaur	EC Blades Tools (P) Ltd	Non-Government	Mechanical Engineering	10 months
Redesign and development of assembly line based on balancing of tasks	Rajender Kumar	EC Blades Tools (P) Ltd	Non-Government	Mechanical Engineering	6 months
Analysis of Impact behaviour of Bio polymer composites	Mr. Nitin Kumar Waghmare	EC Blades Tools (P) Ltd	Non-Government	Automobile Engineering	6 months
Adopting Digital Transformation in manufacturing Operations to improve quality and productivity	Rajender Kumar	EC Blades Tools (P) Ltd	Non-Government	Mechanical Engineering	6 months
Analysis of composite mechanical properties with surface roughness	Mr. Gurpreet Singh Matharou	EC Blades Tools (P) Ltd	Non-Government	Automobile Engineering	6 months
Experimental Investigation of Electrochemical Discharge Drilling of Composite Materials	Basant Bhuyan	EC Blades Tools (P) Ltd	Non-Government	Mechanical Engineering	8 months
Diagnosis and identification of Plant Pathogens in Aloe vera	Nidhi Didwania	EC Blades Tools (P) Ltd	Non-Government	Biotechnology	14 months
Phytosteroid production and extraction from Medicinal Plants	Abhilasha Shourie	EC Blades Tools (P) Ltd	Non-Government	Biotechnology	8 months
In silico identification and prediction of Dengue Inhibitors in Giloy	Rashmi Rameshwari	EC Blades Tools (P) Ltd	Non-Government	Biotechnology	8 months
Crossing of Agra canal by steel bridge	Mr Aftab Alam	EC Blades Tools (P) Ltd	Non-Government	Civil Engineering	6 months
Designing of expansion joints of a bridge deck in Dwarka	Mr. Haobam Derit Singh	EC Blades Tools (P) Ltd	Non-Government	Civil Engineering	6 months
Bringing Automation and Accelerating Digital Transformation and Sustainability in Manufacturing Industry	Tapas Kumar, Ms. Manisha Vashisht	EC Blades Tools (P) Ltd	Non-Government	Computer Science Engineering	12 Months

Face Recognition Attendance System	Rashima Mahajan, Ms. Shubhangi Srivastava	EC Blades Tools (P) Ltd	Non-Government	Computer Science Engineering	6 Months
Psoriasis Disease Diagnosis using deep learning	Meeta Singh, Mr. Arun Kumar	EC Blades Tools (P) Ltd	Non-Government	Computer Science Engineering	6 Months
Design of an Intelligent System in Health Care using Machine Learning	Poonam Nandal, Ms. Romisha Arora	EC Blades Tools (P) Ltd	Non-Government	Computer Science Engineering	6 months
AI-based Image Caption Generator System	Krishan Kumar, Ms. Shweta Sharma	EC Blades Tools (P) Ltd	Non-Government	Computer Science Engineering	6 months
Machine learning based movie recommendation system	Nitasha Soni, Savita	EC Blades Tools (P) Ltd	Non-Government	Computer Science Engineering	6 months
Design of privacy preserving policy/mechanism for data storage on cloud	Suresh Kumar, Tanvi Gupta	EC Blades Tools (P) Ltd	Non-Government	Computer Science Engineering	6 months
Home-based Monitoring System for Predicting Diabetes and Hypertension	Indu Kashyap, Deepa Bura	EC Blades Tools (P) Ltd	Non-Government	Computer Science Engineering	10 months
Design of an Automatic Brain Tumor Detection System Using Machine Learning approaches	Madhumita Panda, Ms. Ranjeeta Mittal	EC Blades Tools (P) Ltd	Non-Government	Computer Science Engineering	6 months
Design of an Intelligent System in Health Care using Machine Learning	Poonam Nandal, Ms. Romisha Arora	EC Blades Tools (P) Ltd	Non-Government	Computer Science Engineering	6 months
Domestic Animal Tracking using RF	Abhiruchi Passi, Vimlesh Singh	EC Blades Tools (P) Ltd	Non-Government	Electronics and Communication Engineering	12 months
Salesforce Administration and Management	Simran Kaur, Arkaja Garg,	FFV SERVICES P LTD	Non-Government	Commerce	18 months
Identification of Distribution Channels	Amandeep Dhaliwal	FFV SERVICES P LTD	Non-Government	Management	12 months
Evaluation of Rural Market Potential	Neha Wadhawan	FFV SERVICES P LTD	Non-Government	Business Studies	12 months
Customer Relationship Strategies and loyalty programmes	Priyanka Srivastava	FFV SERVICES P LTD	Non-Government	Business Studies	12 months
Developing a Customer Complaint Management system	Priyanka Singh	FFV SERVICES P LTD	Non-Government	Management	24 months
Impact of Social Entrepreneurship in Sustainable Livelihood Development in Slum Areas of Delhi	Monika Goel & Amit Seth	FFV SERVICES P LTD	Non-Government	Commerce	18 months



Educational Transformation, Innovations & EdTech Trends in era of COVID-19	Anjali Singh	FFV SERVICES P LTD	Non-Government	Business Studies	12 months
Business Development and Data Analytics	Neha Gupta, Ms. Madhumita Mahapatra,	Bhartiya International Limited	Non-Government	Computer Applications/ Business Studies	18 months
Applications of Design Thinking	Amit Seth, Meghna Chhabra	Bhartiya International Limited	Non-Government	Management	12 months
Contemporary Human resource Practices	Riddhi Khattar	Bhartiya International Limited	Non-Government	Management	24 months
Business Research for Market Development	Farhat Mohsin	Bhartiya International Limited	Non-Government	Management	18 months
Training Needs Analysis for Employee Orientation	Sahil Malik,	Bhartiya International Limited	Non-Government	Management	18 months
Employee Well Being and Job Satisfaction	Anindita Chatterjee Rao	Bhartiya International Limited	Non-Government	Management	12 months
Talent acquisition and retention	Anjali Singh	Bhartiya International Limited	Non-Government	Business Studies	12 months
BCG matrix and Strategy Mapping	Mr. Gautam Srivastava	Bhartiya International Limited	Non-Government	Management	12 months
Strategic Development through big data	Rashmi Agrawal, Priyanka Singh	Bhartiya International Limited	Non-Government	Computer Applications /Management	12 months
Business Forecasting and trend analysis	Preeti Chhabra	Bhartiya International Limited	Non-Government	Commerce	12 months
HR analytics and Recruitment	Anindita Chatterjee Rao	Bhartiya International Limited	Non-Government	Management	24 months
Market Segmentation and Customer Perception	Amit Kumar	Bhartiya International Limited	Non-Government	Business Studies	12 months
Management of POPs and PODs	Arkaja Garg	Bhartiya International Limited	Non-Government	Commerce	12 months



Strategic Human Resource Management and Employee Deployment	Mr. Gautam Srivastava	Bhartiya International Limited	Non-Government	Management	12 months
Development of a Low-Cost Home Automation Switch	Ashish Grover	Bhartiya International Limited	Non-Government	Electrical and Electronic Engineering	6 months
Case study of Waste to Energy System of Faridabad	Leena G.	Bhartiya International Limited	Non-Government	Electrical and Electronic Engineering	9 months
Analysis of Micro wave heating on Skin	Vimlesh Singh, Amrinder Kaur	Bhartiya International Limited	Non-Government	Electrical and Electronic Engineering	12 months
Treatment of waste water of sugar industry	Shagufta Jabin, Rajeev Kumar	Bhartiya International Limited	Non-Government	Chemistry	8 months
Removal of contaminants from different soil	Anupama Rajput, Shagufta Jabin	Bhartiya International Limited	Non-Government	Chemistry	12 months
Study of Industrial Noise pollution	Devi Singh, Neeraj Kumari	Bhartiya International Limited	Non-Government	Physics/Humanities	8 months
Development of dye sensitized solar cells based on green materials	Sarvesh Kumar	Bhartiya International Limited	Non-Government	Physics	12 months
Preliminary studies for development of smart materials for energy efficient devices	Mr. Kapil Gupta	Bhartiya International Limited	Non-Government	Physics	12 months
Development of low cost electrolyte for electrochemical devices	Mr. Sandeep Srivastava Kalpna Varshney	Bhartiya International Limited	Non-Government	Physics	9 Months
Advancement OF Mathematical Model for Analysis Of Air Quality	Deepak Kumar Pooja Khurana	Bhartiya International Limited	Non-Government	Mathematics	6 months
Choice Support System for the Selection of Diamond Among Various Brands	Vijay Kumar , Arti Saxena	Bhartiya International Limited	Non-Government	Mathematics	6 months
Blood pressure and oxygen saturation response in different position of a stroke patient	Preeti Saini	Bhartiya International Limited	Non-Government	Physiotherapy	6 months
Comparison between the effect of Kinesio Taping vs Active release technique in Non-specific chronic low back pain	Ankita	Bhartiya International Limited	Non-Government	Physiotherapy	8 months

To study the effect of healthy eating behavior of the adults (18-35) in relation with Orthorexia nervosa	Ms. Ankita Sharma	Bhartiya International Limited	Non-Government	Nutrition and Dietetics	6 months
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#### 7.4 Consultancy

A Consultancy worth more than INR 26 lakhs was undertaken by faculty members of MRIIRS during AY 2020-21 for various projects including:

S. No.	Name of the Consultant(s) department	Name of Consultancy project	Consulting/Sponsoring Agency
1	Monika Goel	Financial Modeling Using Excel	AL Rowad Qatar Management & Technical Consulting
2	Monika Goel	Online Training programme on Manageing and Organising	AL Rowad Qatar Management & Technical Consulting
3	Monika Goel	Online Training programme on Manageing and Organising	AL Rowad Qatar Management & Technical Consulting
4	Monika Goel	Ernst and Young LLP	Learning and Training Interventions
5	Devender Vashist	Analysis of car driver seat for improved ergonomic design and comfort	Dhingra Motors Private Ltd.
6	Mr Gurpreet Singh	Analysis of vehicles lighting system for increased visibility for safety	Dhingra Motors Private Ltd.
7	Prof. Sanjeev Gupta	Consultancy for Electrical Execution Work	Brij India Architect
8	Prof. Sanjeev Gupta	Consultancy for Electrical Execution at CBM Industries Pvt. Ltd., South City, Gurugram	Kataria Electricals
9	Ridhi Bhatia	Retail Investment Options and Behavioural Finance	E credit India Pvt Ltd (INVEX)
10	Shilpa Arora and Dipti	Impact of Technology on Bank Customers	Fin Vision Consultant
11	Priyanka Singh	Media as a Tool to	Juneja Industries

		Manage Customer Complaints:	
12	Meghna Chhabra	Corporate Entrepreneurship in Industry:	Shiv Sai Steel
13	Anita Khosla	AMIE Section-B Practical Training & Evaluation Summer Session	Associate Member of Institution of Engineers.(AMIE) by Institution of Engineers(INDIA)
14	Sarita Sachdeva, Dr D K Chadha, Dr A Mukheerji	Hydrogeological Survey Aquifer Monitoring in Barmer, Rajasthan of Cairn Oil and Gas Vedanta Ltd	Vedanta Cairns Oil and Gas Company, Barmer, Rajasthan
15	Monika Goel	Viability for opting for FCM Mechansim and registration under GST for transporter	KMR Transport
16	Monika Goel	Technical framework of GST portal to claim Interstate (CGST+ SGST) Refund	Romco Offset
17	Basant K Bhuyan	Design of UPVC (Unplasticized Polyvinyl Chloride) windows for lateral wind loads in multistory structure.	Window Magic
18	Jyoti Chawla	An alternate Green Route for Product Development	Cosmic Petrochemical
19	Priyanka Singh	Market Analysis of Events Management for Corporate Engagement in BFSI Sector	SG Global
20	Stuti Sahni	Use of ICT for effective Management of Events	SG Global
21	Charu Virmani	Financial Services Support System	PM Advisory
22	Amandeep Dhaliwal	Competition Analysis	Juneja Industries



## 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 NewGen 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 alongwith 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).



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. 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.







**More than 48 start-ups have been funded and are already in place under New Gen IEDC Funding Scheme. The list mentioned below:**

Team Members	Sponsored By	Name of Start-up	Nature of Start-ups	Date of Startup MM/DD/YYYY
Shashwat Malik	DST, NSTEDB, GOI	Weknownations	UV based Sanitization systems, Prototype developemt	6/23/2021
Dipika Negi, Diwesh Juneja	DST, NSTEDB, GOI	Addapt Managements	VR tech event management, Prototype development	6/15/2021
Ankit Dagar	DST, NSTEDB, GOI	AutoCar Washing Touch less	Technology based eco smart car cleaning, Prototype development	6/3/2021
Mahak Verma	DST, NSTEDB, GOI	Jalsarot	Water purification, Prototype solution	3/22/2021
Kartik Jatwani, Abhilansh	DST, NSTEDB, GOI	Li-Koff	Bio-technology, Prototype Development	3/20/2021
Gaurav dua, Arpit Tyagi	DST, NSTEDB, GOI	Hobit	An application for promoting hobbies.	11/12/2020
Kashish Kohli, Prince	DST, NSTEDB, GOI	F.A.C.T.S (Formerly KD TECH)	COVID 19 crowd management system, Prototype Development	6/23/2020
Kashish Kohli	DST, NSTEDB, GOI	Crowd Management	Smart devices for managing the crowd to help fight the pandemic	6/9/2020
Ashish Jha, Pankaj Baid, Eklavya	DST, NSTEDB, GOI	Traya Tech	Sanitization gloves for industries	5/29/2020

Ayush Mohan, Kartik Rampal	Registered as Pvt. Ltd. Firm	M/s Tackyon Motors Sports Pvt. Ltd.	In design and development of Electric Scooter	3/16/2020
Simran Kaushik	DST, NSTEDB, GOI	Smart Tee	IoT based traffic management, Prototype	2/5/2020
Raushan Kumar	DST, NSTEDB, GOI	Farmsbook Solutions	Agriculture & crop growth, Prototype	2/5/2020
Puneet Dutta	DST, NSTEDB, GOI	Attaware biodegradable	Edible cutlery, Prototype	2/5/2020
Devender Kaushik	DST, NSTEDB, GOI	ParkInn	Smart parking lots	2/1/2020
Animesh Singh, Shobhit, Vaibhav Ahlawat	DST, NSTEDB, GOI	Jugal beats	Community platform for upcoming musicians and artists	11/15/2019
Rohan Dhawan and Himanshu Garg	DST, NSTEDB, GOI	Orchard India	Economical harvester attachments with specially designed trailer	10/18/2019
Priyanka Gera	DST, NSTEDB, GOI	Medical Tourism	An integrated platform for all medical requirements sought by foreign travellers in India	10/18/2019
Dhruv Rohatgi	DST, NSTEDB, GOI	One Touch	Smart Switches and IOT solutions for Domestic Applications	10/18/2019
Parul, Mukul, Deepak	DST, NSTEDB, GOI	Bliss Board	Smart and portable Bliss Board (braille board) for blind people to interact well with their smartphones and communicate well on social media handles.	10/18/2019
Jayant Kumar	DST, NSTEDB, GOI	Travel Gram	Community for travel enthusiasts	6/15/2019
Jahnvi Aggarwal	DST, NSTEDB, GOI	Smart Water Sprinkler	Smart water sprinkler for domestic and commercial usage	5/10/2019

Parth Jaiswal, Vineet Kumar	DST, NSTEDB, GOI	VADS Creation	E-Commerce platform for small retailers	4/3/2019
Yatharth Singh Akash Atri	DST, NSTEDB, GOI	Lynista Gaming	Game development	4/3/2019
Suraj Kumar	DST, NSTEDB, GOI	Metro Masti	Mobile App for the Metro travelers	4/3/2019
Sabia Imran	DST, NSTEDB, GOI	Organic Farm Fresh	Mushroom Cultivation	2/5/2019
Ashutosh Sharma	DST, NSTEDB, GOI	Pinaca	Dental Cleaning	2/5/2019
Esha Jain, Mahika goel, Shreya Pasricha	DST, NSTEDB, GOI	Nutri Fresh	Basil seeds based diabetic friendly mouth freshners	2/5/2019
Aman Nishchal, Vansh Mittal	DST, NSTEDB, GOI	TFT (coating Vala)	Surface Protector	7/15/2018
Mandeep Gulati	DST, NSTEDB, GOI	Naturoplast	Biodegradable Plastic	7/10/2018
Bhupathi Nitish Kumar	DST, NSTEDB, GOI	N2 Innovations	Agriculture -Rice Planting Machine	7/10/2018
Karan Sehgal	DST, NSTEDB, GOI	Ferox Technologies	Agriculture- E Tractor	7/10/2018
Sunash Malik, Vaibhav Dagar, Yash Kaushik	DST, NSTEDB, GOI	Synsalus technoMed	Medical Data Management	7/6/2018
Chaitanya Singh Rana, Saurabh Singh	DST, NSTEDB, GOI	Vagabond Brains	Digital Marketing Service	6/29/2018
Dr Ankur Sharma	DST, NSTEDB, GOI	SYNSALUS	Medtech.	5/1/2018
Sahil Tanwar, Mukul Phogat	DST, NSTEDB, GOI	Thap Krida	Mobile Games developer	3/1/2018
Sunash Malik, Vaibhav Dagar Yash Kaushik	DST, NSTEDB, GOI	Medlife Care	MIS system for Hospitals, Idea to PoC	3/1/2018



Mahesh Dutt Tripathi, Ashish Saxena	DST, NSTEDB, GOI	Night Labs	Innovation in helmet technology	3/1/2018
Chaitanya Singh Rana Saurabh Singh	DST, NSTEDB, GOI	Vagabond Brains	Digital Media innovation, Idea to PoC	3/1/2018
Mandeep Gulati Divya Yadav	DST, NSTEDB, GOI	NaturoPlast	Natural Plastic, Prototype Developed	12/1/2017
Kartik Rampal Aayush Mohan	DST, NSTEDB, GOI	Tackyon Motorsports Pvt Ltd	Electric Bike, Innovation	10/1/2017
Mohit Dhariwal Anshu Jha Pranav Jha	DST, NSTEDB, GOI	Halestain Food Labs (Nature's Drop)	Natural and Healthy Beverage, PoC stage	10/1/2017
Mohamad Sadi Raza	DST, NSTEDB, GOI	SmartWatch	Bone conduction technology, Innovation	10/1/2017
Shivam Mahajan Shradhha Bhatia	DST, NSTEDB, GOI	Greenity	Smart Energy, Prototype	10/1/2017
Vivek Rajput Meetesh Mehta	DST, NSTEDB, GOI	Campus Dock	Application based product, Idea to PoC	10/1/2017
Shivendra Chauhan Akshay Sharma	DST, NSTEDB, GOI	Aarkaya Solar Solutions Pvt Ltd	Solar Energy, Prototype Development	9/1/2017
Mr. Mohit Bahl, Mr. Manasvi Sihag	MRIIC	TechnoPlanet Labs Pvt Ltd	Setting up ATLs and providing STEAM trainings to school students.	9/15/2015
Mr. Rakesh Sethi, Mr. Yugank Rastogi	MRIIC	Hyfn Games Pvt Ltd	Cross Platform Game Development and Virtual reality project outsourcing.	12/21/2015
Mr. B.S Gill, Mr. Amit Kumar, Ms. Prachie Sharma	MRIIC	Parimukh Innovations	Air Filtering Device	04/04/2017

**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 ATLS 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 AY2020-21

MRIIRS encourages its faculty members and students to file the patents in different fields. The details of Patents published/granted during the year 2020-21 are as follows:

Patent Application No.	Status Of Patent (Published / Granted)	Inventor/S Name	Title of the Patent	Applicant/S Name
202111061914	Published	Dr. Poonam Tanwar, Dr. Rashmi Rameshwari, Ms. Shweta Sharma	Hand Sanitization Apparatus	Manav Rachna International Institute of Research and Studies
202111061512	Published	Dr. Umesh Dutta, Dr. Nitasha Soni, Dr. Anjali Gupta	Digital Parking Ticket	Manav Rachna International Institute of Research and Studies
202111061515	Published	Dr. Manoj Nayak, Dr. Suresh Kumar, Dr. Vimlesh Singh	Smart Table	Manav Rachna International Institute of Research and Studies
202111061516	Published	Dr. G L Khanna, Dr. Moattar Raza Rizvi, Dr. Adhikarla Syama	System And Method For Early Cardiovascular Risk Prediction And Risk Classification	Manav Rachna International Institute of Research and Studies
202111061514	Published	Dr. Pradeep Kumar, Dr. Devendra Vashist, Dr. Leena G	Border Surveillance System	Manav Rachna International Institute of Research and Studies
202111061517	Published	Dr. Anita Khosla, Dr. Richa, Dr. Sadiqa Abbas	Wind Energy Generator	Manav Rachna International Institute of Research and Studies
202111061513	Published	Dr. G L Khanna, Dr. Puneet Batra, Dr. Amit Seth, Dr. Shilpa Arora, Dr. Kanchan Bhardwaj	Health Monitoring System	Manav Rachna International Institute of Research and Studies
202111061510	Published	Dr. Sabiha Imraan, Dr. Sarita Sachdeva, Dr. Jyoti Chawla	Method For Development Of Analytical Technique For Quantitative Analysis Of Antibiotic Residues	Manav Rachna International Institute of Research and Studies
202111061511	Published	Dr. Sarita Sachdeva, Dr. Sunita Bansal	System And Method Of Gauging Effect Of Quality Of Water On Concrete Structures	Manav Rachna International Institute of Research and Studies
202111061912	Published	Dr. Sonal Bhugra, Yaman Hooda, Col. Sanjeev Gupta	Unified Public Transportation System	Manav Rachna International Institute of Research and Studies
202111061913	Published	Dr. Sonal Bhugra, Arko Bagchi, Dr.	Central Traffic Control System	Manav Rachna International Institute



		Jyoti Verma, Dr. Arvind Dalal	And Method	of Research and Studies
202111061911	Published	Dr Devender Vashisht, Dr Pankaj Shakkarwal, Dr Sunny Bhatia	Plug-In Hybrid Electric Vehicles Powered On-Wheel Medical Oxygen Generator For Covid-19 Patient	Manav Rachna International Institute of Research and Studies
202111061916	Published	Dr Nitesh Malhotra, Mr Shishir Nigam	Apparatus For An Anterior Cruciate Ligament (Acl) Reconstruction Procedure	Manav Rachna International Institute of Research and Studies
202111061915	Published	Dr. Abhiruchi Passi, Dr. Ashish Grover	Solar Time Synchronization System	Manav Rachna International Institute of Research and Studies
202111061917	Published	Dr. Pradeep Kumar, Dr. Geeta Nijhawan, Dr. Supriya P Panda	Artificial Intelligence Based Automatic Diagnostic System	Manav Rachna International Institute of Research and Studies
202111055367	Published	Dr. Madhumita Kathuria	A Machine Learning Based System For Agricultural Products To Predict Quality And Method Thereof	Dr. Madhumita Kathuria
2020103648	Granted	Meeta Singh, Poonam Chahal , Deepa Bura	Isp- Crime Site Analysis: Intelligent Method And Process Of Performing Crime Site Analysis And Management System	Meeta Singh, Poonam Chahal , Deepa Bura
202111053278	Published	Mr. Vinay, Mr. Sunny Bhatia, Mr. Nitin Waghmare	Mechanized Retail Store Comprising 3d Printed Autonomous Home Delivery Drone	Mr. Vinay, Mr. Sunny Bhatia, Mr. Nitin Waghmare
202111048985	Published	Dr. Sarika Chaudhary	Smart Monitor: Health Monitoring System Using Deep Learning	Dr. Sarika Chaudhary
202111046254a	Published	Neha Batra	A System For Monitoring Social Distance And Generating Alerts Using Iot	Neha Batra
202111011544	Provisionally Filed	Y K Awasthi, Gaurav Saxena, Priyanka Jain	A Device For Electromagnetic Absorption And Navigation	Manav Rachna International Institute of Research and Studies And MRU
2021103320	Granted	Dr. Meeta Singh,	A System and	Dr. Meeta Singh, Dr.

		Dr. Poonam Nandal, Dr. Deepa Bura, Ms. Srishty	Method For Predicting Secure And Safe Route For Women Using Navigation Map	Poonam Nandal, Dr. Deepa Bura, Ms. Srishty
2021102957	Granted	Mohit Chaudhary	A System and Method For Predicting The Stock Market News Sentiments Using Machine Learning	Mohit Chaudhary
20211015819	Published	Indu Kashyap, Rachna Behl, Madhumita Kathuria	A Data Mining System For Demonstration And Determination Of Mixing Various Chemical Composition Publication	Indu Kashyap, Rachna Behl, Madhumita Kathuria
2021101996	Granted	Poonam Tanwar	Nutrient Deficiency Stress Detection And Prediction In Corn Fields From Aerial Images Using Machine Learning.	Poonam Tanwar
20211017848	Published	Priyanka Grover, Poonam Katyal, Neha Batra, Pinki Sagar, Indu Kashyap, Parul Gandhi	An Image Processing Device And System For Screening of Medical Equipment	Priyanka Grover, Poonam Katyal, Neha Batra, Pinki Sagar, Indu Kashyap, Parul Gandhi
202131017275	Published	Ms. Pinki Sagar	IoT Based System For Monitoring And Notification For Usage Of Liquefied Petroleum Gas	Ms. Pinki Sagar
2021101069	Granted	Dr. Savita Sindhu	Intelligent-Sim: Multiple Company Mobile Number Installed In Single Sim	Dr. Savita Sindhu
20210179159	Published	Dr. Meghna Chhabra	Lsm Luggage Trolleys: Intelligent Shopping Mall Luggage Trolleys	Dr. Meghna Chhabra
2021100325	Granted	Dr. Brijesh Kumar	In-Bed Exercising And Monitoring Device	Dr. Brijesh Kumar
20211001502	Filed	Anita Khosla, Richa Amrinder Kaur, Amit Atri Adhlakha, Ashish Grover	A System For Detecting The Forest Fire With IoT Connectivity	Manav Rachna International Institute of Research and Studies
2020104395	Granted	Dr. Brijesh	Self Sanitizing	Dr. Brijesh Kumar

		Kumar	Attendance Recorder With Thermal Screening	
202041047364	Published	Rachna Behl, Dr Indu Kashyap	Enhanced Fingerprint Authentication System By Gabor Filter And Classification Dictionaries Learning	Rachna Behl, Dr Indu Kashyap
202011045281	Published	Anita Khosla, Ashish Grover, Richa Adlakha	A System for Solar Radiation Estimation for Solar Based Power System And Method Thereof	Anita Khosla, Ashish Grover, Richa Adlakha
202011043528	Published	Anita Khosla	An Irrigation System with IoT Connectivity	Anita Khosla
202011034154	Filed	Kapila Kumar, Srishti Chopra, Tarini Vohra, Hardik Grover, Shivani Khare, Shivam Bhardwa, Jdewashish Kaushik, Kartik Jatwani, Umra Mahmood, Abhilash Pandey, Alokita Tanwar	Signal In Over the Air Ota System and Method Thereof	Manav Rachna International Institute of Research and Studies
202011040606	Published	Dr. Meeta Singh, Dr. Poonam Chahal, Dr. Deepa Bura, Srishty, Swati Gupta, Meenu Vijarania, Dr. Bright Keshwani, Sudha	Smart Call Swapper for Portable Terminals	Dr. Meeta Singh, Dr. Poonam Chahal, Dr. Deepa Bura, Srishty, Swati Gupta, Meenu Vijarania, Dr. Bright Keshwani, Sudha
202011037366	Filed	Dhruv Rohatgi, Siddharth Srivastava, Simran Choudhary, Dr. Suresh Kumar	Design of A Smart Switch	MRIIRS
202011037563	Published	Anita Khosla, Geeta Nijhawan, Ashish Grover, Richa Adhlakha	An Apparatus for Identification and Classification Of A Signal In Over The Air Ota System And Method Thereof	Anita Khosla, Geeta Nijhawan, Ashish Grover, Richa Adhlakha
202031036679	Published	Dr. Poonam Tanwar	A Novel Hybrid Renewable Power Platform to	Dr. Poonam Tanwar



			Harvests Wind, Solar and Water Current Power from Running Chanel	
202011019359	Published	Dr. Rosy Madaan	Electronic Vehicle Identification System	Dr. Rosy Madaan
202011015852	Published	Dr. Swati Watts	Automatic Sanitized the Elevator Key Inside Outside Surface and Air	Dr. Watts
326252-001	Published	Dr. Rosy Madaan, Dr. Surbhi Bhatia, Dr. Rashima Mahajan	Goggle With Speed Indication	Dr. Rosy Madaan, Dr. Surbhi Bhatia, Dr. Rashima Mahajan
201911053353	Published	Dhruv Rohatgi, Simran Choudhary, Siddharth Srivastava, Palak Gupta, Suresh Kumar	Smart Bed for Pressure Ulcer Therapy	Manav Rachna International Institute of Research and Studies
201911023212	Published	Prateek, Sorabh, Shailesh	Filter Cum Stirrer Mechanism for Stir Casting of Composite	Manav Rachna International Institute of Research and Studies and MRU
201911023214	Published	Gurpreet Singh Matharou, Ritesh Kumar Nagar	External Handbrake with Mechanical Park Assist	Manav Rachna International Institute of Research and Studies and MRU
201911040293	Published	Dhruv Rohatgi, Aayushi Aggarwal, Siddharth Srivastava, Palak Gupta, Suresh Kumar	Automated lot Based Rapid Medicine Delivery System	Manav Rachna International Institute of Research and Studies and MRU
201911033647	Published	Shaveta Bhatia, Shiv Shankar Rai	Handheld Self Examine Brest Cancer	Manav Rachna International Institute of Research and Studies and MRU
201911031519	Published	Y.K Awasthi, Gaurav Saxena	Compact Planar Superwideband Equal Power Divider / Combiner for Rf & Microwave Applications	Manav Rachna International Institute of Research and Studies and MRU
201911031072	Published	Y K Awasthi, Yogita Khanna, Anshuman Gupta	Microwave Sensing Device for Dielectric Characterization Of Materials	Manav Rachna International Institute of Research and Studies and MRU
201811049916	Published	Ms Prachie Sharma Dr. B.S Gill,	A Method and Device to Augment Agricultural	Manav Rachna International Institute of Research and Studies

			Produce Using Reflected Solar Energy	
201611040143	Granted	Neena Godara, Dipali Bansal	A Mobile Home-Based Biogas Digester	Manav Rachna International Institute of Research and Studies
1752/Del/2012	Granted	Bhupinder Singh Gill, Victor Gambhir	Self Back-Flushed Filter System for Water	Manav Rachna International University

## CHAPTER-8

### STUDENTS ACHIEVEMENTS AND ACTIVITIES

#### 8.1 Examination Result

The University has adopted semester-based study programmes and credit system of evaluation for examination of all courses. The Programme wise result of final semester held in May 2021 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	9	7
B.Tech-Automobile Engineering	16	13
B.Tech-Biotechnology	24	23
B.Tech-Civil Engineering	38	36
B.Tech-Computer Science and Engineering	120	114
B.Tech-Computer Science and Engineering with specialization in Business Analytics & Optimization	16	16
B.Tech-Computer Science and Engineering with specialization in Cloud Computing	77	70
B.Tech-Computer Science and Engineering with specialization in Cyber Security & Forensics	43	42
B.Tech-Computer Science and Engineering with specialization in Graphics and Gaming	10	9
B.Tech-Electronics and Communication Engineering	41	39
B.Tech-Electrical and Electronics Engineering	17	16
B.Tech-Mechanical Engineering	62	57
Mechanical Engineering- Industry Integrated	22	21
B.Sc. - Data Science	5	5
M.Tech-Biotechnology	6	6
M.Tech-Civil Engineering	11	11
M.Tech-Power Electronics and Electrical Drives	1	1
M.Sc.-Biotechnology	17	17
M.Tech- Computer Engineering and Networking	2	2
M.Tech- Mechanical Engg	3	1
B.Arch.	8	5
B.Sc.-Interior Design	20	18
BPT	79	70
B.Sc.-Nutrition and Dietetics	45	31
M.Sc.-Nutrition and Dietetics	54	53
MPT	42	39
BCA	67	64



MCA (including Lateral Entry)	60	59
B.Sc. Information Technology	14	13
BBA General	82	64
BBA Banking and Financial Markets	33	29
BBA Global International Business	23	17
B.Com (Hons.)	80	77
M.Com	9	9
B.A. Journalism and Mass Communication	55	45
B.A. (Hons) English	42	41
M.A. Journalism and Mass Communication	5	5
M.A. English	18	17
MBA	90	83
B.Sc. Hospitality and Hotel Administration	26	19
B.A. Liberal Arts	1	1
B.A. Applied Psychology	52	43
M.A. Applied Psychology	19	17
B.A. (Hons) Economics	19	19
M.A. Economics	7	6
PhD	42	42

## 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 supports at every stage of the placement processes, down from arranging pre-placement talks, written test, group discussion, interviews etc. CRC manages ongoing relationships with leading corporates 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 students of Final year who are interested for 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 recruiting company. Some of the eminent recruiters include TCS, Accenture, IBM, HCL Technologies, NIIT Technologies, Infogain, Sony India, Monark, Sterling Tools, Yamaha Motor Solutions, Samsung, Quovantis, Amazon, Adobe, British Telecom, CINDA, Deloitte, Convergys, SSP, FederalMogul, KrishnaMaruti, HP, Indigo, JBM, Rothenberger, Naukri.com, PNB Housing and the likes.

**Details of Department wise Placements for the Academic Year 2020-21 are tabulated below:**

**1. Department of Management Studies:**

S.No	Company Name	MBA	Campus type
1	36 Toyota	1	Self Placed
2	Aarvy Healthcare	1	Self Placed
3	Accenture	2	Virtual
4	Accurate Associates	1	Self Placed
5	Aegis Startek	1	Self Placed
6	Aquaplus Global	1	Self Placed
7	Believers Enterprises	1	Self Placed
8	BRD. Group of Companies	1	Self Placed
9	Briotech	1	Self Placed
10	Bullmen Realty	1	Self Placed
11	Cargo Flash Infotech Pvt Ltd	1	Virtual
12	Coforge	2	Virtual
13	Convertcart Solutions Pvt Ltd	1	Virtual
14	Dentsu Aegis Network	1	Self Placed
15	DND Enterprises	1	Self Placed
16	Ernst & Young LLP	1	Virtual
17	Flipkart	6	Virtual
18	Franchise India	4	Virtual
19	Globiva	1	Self Placed
20	Goyal Services	1	Self Placed
21	HDFC Bank	1	Self Placed
22	Hilti	1	Self Placed
23	Indigenesis	1	Self Placed
24	Invex Financial Group	2	Self Placed
25	Jaisat Packaging	1	Self Placed
26	Jaro Education	1	Virtual
27	JMV Motors Pvt. Ltd	1	Self Placed
28	Kaveri Consultants	1	Self Placed
29	KGM Associates	1	Self Placed
30	Kutumb Care	1	Self Placed
31	M.M Impex	1	Self Placed
32	Miric Biotech Limited	1	Self Placed

33	Motherson Sumi Infotech & Designs Limited	1	Self Placed
34	Mount Talent Consulting	1	Self Placed
35	NetAmbit	1	Self Placed
36	Oodles Technologies Pvt Ltd.	1	Self Placed
37	Dr. O P Bhalla Foundation	1	Self Placed
38	Pace HR Consultancy LLP	1	Self Placed
39	Panicle Worldwide Pvt Ltd	1	Self Placed
40	Perfect Enterprises	1	Self Placed
41	Policy Bazaar	1	Self Placed
42	Prometheus Consulting	1	Self Placed
43	PVR Limited	1	Virtual
44	Rajnish Singh & Co.	1	Self Placed
45	Rawcubes India Private Limited	2	Self Placed
46	Reliance Digital	1	Virtual
47	Reliance SMSL	1	Self Placed
48	RESO Technologies Pvt. Ltd.	1	Self Placed
49	Right Advisors Pvt. Ltd.	1	Self Placed
50	Rsy Infratech Pvt Ltd	1	Self Placed
51	Shadi Expert	1	Self Placed
52	Silverskills Private Limited	1	Self Placed
53	SIS Prosegur	2	Virtual
54	Team Computers	2	Virtual
55	TIA Consulting	1	Self Placed
56	Toluna	1	Virtual
57	TQS logistics Pvt. Ltd	1	Self Placed
58	Trade India Limited	2	Self Placed
59	Trip &Travel Solutions	1	Self Placed
60	uFaber Edutech Pvt. Ltd.	1	Self Placed
61	Unacademy	1	Self Placed
62	Vimani Overseas	1	Self Placed
63	W-Pratiksha Hospital	1	Self Placed
64	Zyoin	1	Self Placed
	Higher Studies	3	Self Placed
	Entrepreneurship	9	Self Placed
Grand Total		91	



## 2. Faculty of Allied Health Sciences:

S. No	Company Name	FAHS	Campus type
1	Abhinav Bindra Targeting Performance (ABTP)	1	Self Placed
2	Abhinav Futuristics Pvt. Ltd	2	Self Placed
3	Active Care Physiotherapy Clinic	1	Self Placed
4	Alchemist Hospital Panchkula	1	Self Placed
5	Antara Assisted Care Services	1	Self Placed
6	Aurogreen Health Pvt. Ltd	3	Self Placed
7	B. K. L. Walawalkar College of Physiotherapy	1	Self Placed
8	CB Physiotherapy	1	Self Placed
9	Chakradhara Institute of Rehabilitation Sciences	1	Self Placed
10	Curodoc Health care	1	Self Placed
11	First Steps Child Development Centre	1	Self Placed
12	Florence Medical Science	1	Self Placed
13	Gastrocare Liver and Digestive Disease Center	1	Self Placed
14	Genpact	1	Self Placed
15	Healthians	18	Virtual
16	Healthyify Me	4	Self Placed
17	JECRC Univeristy, Jaipur	1	Self Placed
18	Kailash Institute of Nursing and Para Medical Sciences	1	Self Placed
19	Makino Healthcare	1	Self Placed
20	Mayom Hospital	1	Self Placed
21	Minerva Academy Football Club	3	Self Placed
22	Mission Walk Physiotherapy and Rehabilitation Center	1	Self Placed
23	Mitra Industries Pvt Ltd	1	Self Placed
24	Naman Care Home	1	Self Placed
25	NSR Diet	1	Self Placed
26	Nucros	1	Self Placed
27	Optum Global Solutions	1	Virtual
28	ParaFit India LLP	1	Self Placed

29	Paras Hospitals	1	Self Placed
30	Physiofirst	1	Self Placed
31	PHYSIOKRAFTS Physiotherapy Clinic	1	Self Placed
32	PhyWorld Physical Therapy	1	Self Placed
33	Qi Spine Clinic	1	Self Placed
34	QRG Health City	1	Self Placed
35	Quantum Physical Therapy	1	Self Placed
36	Rehab Forte	1	Self Placed
37	RKDF University	1	Self Placed
38	Sarvodaya Hospital	3	Self Placed
39	SSB Heart And Multispecialty Hospital	1	Self Placed
40	Universal Hospital	1	Self Placed
41	VLCC Institute	2	Self Placed
42	Vydehi Institute of Medical Science and Research Center	1	Self Placed
43	Yashoda Institute of Physiotherapy	1	Self Placed
44	Shraddha Mandir School	1	Self Placed
45	Total Health Sums	1	Self Placed
	Higher Studies	37	Self Placed
	Entrepreneurship	4	Self Placed
<b>Grand Total</b>		<b>114</b>	

### 3. Faculty of Computer Applications:

S.No	Company Name	FCA	Campus type
1	Abecus Desk	1	Self Placed
2	Accenture	1	Virtual
3	Babel Media India Pvt. Ltd. (A Keywords Studio)	1	Self Placed
4	Butter Business Resourceful Support	1	Self Placed
5	Cargo Flash Infotech Pvt Ltd	5	Virtual
6	Cashify	1	Self Placed
7	Cavisson Systems	1	Virtual
8	Espater	1	Self Placed
9	Fleetech Trucking Private Limited ("TruckApp.ai")	1	Self Placed
10	Genpect	1	Self Placed
11	GK Machine Tools	1	Self Placed
12	G Tropy Systems Pvt. Ltd.	1	Self Placed
13	Hitachi systems	1	Self Placed
14	HP Inc.	1	Virtual
15	Infogain	1	Virtual
16	Infosys	1	Virtual
17	Insight Customer Call Solutions Ltd	1	Self Placed
18	International Governance Pvt Ltd	4	Self Placed
19	Ionic Digital	1	Self Placed
20	Jaina India Pvt. Ltd.	1	Self Placed
21	Jamia Hamdard institute of Medical Science and Research	1	Self Placed
22	Kotak Mahindra Bank	1	Self Placed
23	Lido Learning	1	Virtual
24	Livetech	1	Self Placed
25	Logicsoft international pvt ltd	1	Self Placed
26	M Intergraph Systems Pvt Ltd	1	Self Placed
27	Motherson Invenzen X lab	1	Self Placed
28	Oodles Technologies Pvt Ltd.	2	Self Placed
29	Optum Global Solutions	1	Virtual
30	Orion Marine Concepts	1	Self Placed
31	Planetspark	1	Self Placed
32	Pyizatech	1	Self Placed
33	Rawcubes India Private Limited	1	Self Placed
34	RBS Services India Pvt. Ltd	1	Self Placed



35	S3 Infotech Pvt Ltd	1	Self Placed
36	Sage Beans IT & Consulting	1	Self Placed
37	Shonet System	3	Self Placed
38	Shrijan Technologies Pvt Ltd	1	Self Placed
39	Somya Translators Pvt Ltd	1	Self Placed
40	Square Yards	1	Self Placed
41	Swapithuw	1	Self Placed
42	TCS	1	Virtual
43	Tech Mahindra	1	Self Placed
44	Telemane Software Solutions Pvt. Ltd.	1	Self Placed
45	Think & Learn (Byju's)	1	Virtual
46	Wappgo IT Services Pvt Ltd	1	Self Placed
47	Wunderman Thompson MSC	3	Virtual
48	Yatharth Hospital	1	Self Placed
49	ZienEdU Pvt Ltd	1	Self Placed
	Higher Studies	23	Self Placed
	Entrepreneurship	3	Self Placed
<b>Grand Total</b>		<b>87</b>	

#### 4. Faculty of Engineering and Technology:

S.No	Company Name	FET	Campus type
1	360 Degree Cloud Technologies Pvt. Ltd.	1	Self Placed
2	Aalgro Foods Private Limited	1	Self Placed
3	Accenture	10	Virtual
4	ADP India Pvt. Ltd.	4	Virtual
5	Advance Solutions Pvt Ltd	1	Self Placed
6	Akon Electronics India Pvt. Ltd.	1	Virtual
7	AltioStar Networks India Pvt Ltd	1	Self Placed
8	Altudo	1	Self Placed
9	Amber Group	2	Virtual
10	Amnex Infotechnologies Pvt Ltd	1	Self Placed
11	ArgilDx	1	Virtual
12	Autobot Engineers India Private Limited	1	Self Placed
13	Avacend Solutions Pvt. Ltd.	1	Virtual
14	AVIZVA Solutions Private limited	1	Self Placed
15	Bodhan Group	4	Virtual
16	C&S Electric Limited	1	Self Placed
17	C&S Himoina Pvt Ltd	1	Self Placed
18	Caeli	1	Self Placed
19	Capgemini	41	Virtual
20	Cargo Flash Infotech Pvt Ltd	14	Virtual
21	Cars24	1	Self Placed
22	Caspex Tech LLP	1	Self Placed
23	Cavisson Systems	2	Virtual
24	Cloud Analogy	1	Virtual
25	Codezero2pi Solution Pvt.Ltd.	1	Self Placed
26	Coforge	20	Virtual
27	Cognizant	27	Virtual
28	Compunnel Digital	3	Virtual
29	Concentrix	1	Self Placed
30	CPM India Sales & Marketing Pvt Ltd	1	Self Placed
31	Craterzone	1	Virtual
32	Crowe Horwath IT Services LLP	1	Virtual
33	Cryoviva Biotech Pvt. Ltd.	1	Virtual
34	Daffodil Software Pvt. Ltd.	2	Virtual
35	Drone Imaging and Information Services Haryana	1	Self Placed
36	Dyson India	1	Virtual
37	Effectual Services	1	Virtual

38	Ernst & Young LLP	2	Virtual
39	Ex2 Solutions	5	Virtual
40	Expert Lancing Research	2	Virtual
41	Fc Digital Marketing	1	Self Placed
42	Firstsource Solutions Limited	1	Self Placed
43	Fresh Gravity Software Services India Private Limited	1	Self Placed
44	Frigoglass India Pvt. Ltd.	1	Self Placed
45	Future Tech Design	2	Virtual
46	Girdhari Lal Constructions Pvt Ltd	1	Self Placed
47	Glorious Insight Pvt Ltd.	1	Self Placed
48	Greenfuel Energy Solutions Pvt Ltd	1	Virtual
49	Group M Media Pvt Ltd	1	Self Placed
50	Harman Connected Services Corporation	1	Self Placed
51	HCL Technologies	9	Virtual
52	Healthians	10	Virtual
53	Himank Soft Solutions	1	Self Placed
54	Hindikio Solution India Pvt. Ltd.	1	Self Placed
55	HNN Technologies	2	Self Placed
56	HSBC Technology	2	Virtual
57	IDS Infotech	2	Virtual
58	Imagine Marketing Pvt. Limited	1	Self Placed
59	Indlabs Consulting Private Limited	1	Self Placed
60	Indus Valley Partner	4	Virtual
61	Infogain	9	Virtual
62	Infosys	6	Virtual
63	Infozech	3	Virtual
64	Ingenious E-Brain Solutions Pvt. Ltd.	2	Self Placed
65	Ingenuity Gaming	3	Virtual
66	Intellect Partners	1	Virtual
67	Interra Systems	1	Virtual
68	Inwain Technologies	1	Self Placed
69	iQGateway Pvt Ltd	1	Self Placed
70	Ivy Software Development Services Private Limited	1	Self Placed
71	Jagriti Civil Constructions Private Limited	3	Self Placed
72	Jaro Education	4	Virtual
73	JBM	14	Self Placed
74	JCB India Ltd	2	Self Placed
75	Jio Platforms Ltd	1	Self Placed
76	JK Civil Construction Pvt Ltd	2	Self Placed
77	JNS Instruments Ltd	1	Self Placed



78	Kent Cam Technologies	1	Self Placed
79	KPMG Assurance and Consulting Services LLP	1	Self Placed
80	Krishna Metlab	1	Self Placed
81	Kunwar Engineers Pvt. Ltd.	4	Self Placed
82	L&T Infotech	1	Self Placed
83	Leapwork	2	Virtual
84	Lido Learning	22	Virtual
85	Luxoft India LLP	1	Self Placed
86	M.S. Intropower Private limited	1	Self Placed
87	Maven Wave	4	Virtual
88	Mavenir System Pvt Ltd	2	Self Placed
89	Minda Industries Ltd	1	Self Placed
90	Mindtree	2	Self Placed
91	Morgan Stanley (Wiley)	2	Self Placed
92	Nagarro Software	2	Virtual
93	Nemko India	1	Self Placed
94	Newgen Software	3	Virtual
95	Nokia	5	Virtual
96	Novelvox Softwares India Private Ltd	3	Virtual
97	NTT Data Services	5	Virtual
98	Omaxe	1	Self Placed
99	OnGrid (Handy Online Solutions Private Limited)	1	Self Placed
100	Open Access Technology India Private Limited	1	Self Placed
101	PathKits Healthcare Pvt Ltd	1	Self Placed
102	Paytm Payments Bank	1	Self Placed
103	Pinaki Softcon	1	Self Placed
104	Plasser India Private Limited	1	Self Placed
105	Polymedicure	3	Virtual
106	Pulsus Group	1	Self Placed
107	Purnartha Investment Advisors Pvt Ltd	1	Self Placed
108	Quantum World Tele Services Pvt Ltd	1	Self Placed
109	Revature	2	Virtual
110	Round Glass	1	Self Placed
111	SabPaisa (SRS Live Technologies Private Limited)	1	Self Placed
112	Sanskriti International School	1	Self Placed
113	Searchosis Marketing Pvt. Ltd	2	Self Placed
114	Servetel Communication	3	Virtual

115	Sigma Test & Research Centre	1	Self Placed
116	Sofima Filters India Pvt Ltd	1	Self Placed
117	Solveda Software India Pvt Ltd	1	Self Placed
118	Sonalika International Tractors	1	Virtual
119	Sterling Tools	2	Virtual
120	System Infra Solutions Pvt. Ltd.	1	Self Placed
121	Targus Technologies Pvt Ltd	1	Self Placed
122	TCS	35	Virtual
123	Team Lease	1	Self Placed
124	Techahead Software	1	Virtual
125	Techniken Engineering Solutions	1	Self Placed
126	Techryde	3	Virtual
127	Texmaco Rail & Engineering Ltd	3	Virtual
128	The Judge Group	1	Virtual
129	To The New	2	Virtual
130	TSYS Card Tech Services India LLP	1	Self Placed
131	Tyroo	1	Self Placed
132	Value First Digital Media Private Limited,	1	Self Placed
133	VE Commercial Vehicles Ltd	1	Self Placed
134	Victoria Auto Pvt Ltd,	1	Self Placed
135	Virtuous Transactional Analytics Pvt. Ltd	1	Self Placed
136	Vivo Mobile India Pvt. Ltd.	3	Virtual
137	Webkul Software Pvt. Ltd.	1	Self Placed
138	Wikaad IT Systems	1	Self Placed
139	Wipro HR Services	8	Virtual
140	Wipro Ltd	3	Self Placed
141	Wunder Control & Switchgear Pvt. Ltd.	1	Self Placed
142	Xceedance Consulting India Private Limited	3	Self Placed
	Higher Studies	34	Self Placed
	Entrepreneurship	26	Self Placed
<b>Grand Total</b>		<b>491</b>	

## 5. Faculty of Media and Humanities:

S.No		FMeH	Campus type
1	Accenture	1	Virtual
2	Arrant Metals Pvt Ltd	1	Self Placed
3	Career Launcher, Sarita Vihar	1	Self Placed
4	Channel PR	1	Virtual
5	DCTM College, Palwal	1	Self Placed
6	Fashion TV (School of Performing Arts)	1	Self Placed
7	Fat To Fab Healthcare	1	Self Placed
8	Fossbytes Media Pvt. Ltd	1	Self Placed
9	IDP Education India Pvt. Ltd	1	Self Placed
10	Investors' Clinic	1	Self Placed
11	ITV Digital Services	1	Self Placed
12	Modest Offset Printwell	1	Self Placed
13	News Har Pal	1	Self Placed
14	SMEA Consulting Pvt Ltd	1	Self Placed
15	Square Yards	1	Self Placed
16	Tech Mahindra	1	Self Placed
17	TRAC Representations India (P) Ltd.	1	Self Placed
18	Whiz Co	4	Self Placed
	Higher Studies	28	Self Placed
	Entrepreneurship	1	Self Placed
<b>Grand Total</b>		<b>50</b>	



## 6. Faculty of Commerce and Business Studies:

S.NO	COMPANY NAME	FCBS	Campus type
1	Afinoz	1	Self Placed
2	Asia Research Partners LLP	1	Self Placed
3	Blanchard India Group (BYLD)	3	Virtual
4	Cargo Flash Infotech Pvt Ltd	3	Virtual
5	Coms Fleet Mgt Services Pvt Ltd	1	Self Placed
6	Concentrix	1	Self Placed
7	Freed	1	Virtual
8	HDB Financial Services Limited	3	Self Placed
9	Healthians	1	Virtual
10	IHS Markit	1	Virtual
11	Leadership Consulting Pvt Ltd	2	Self Placed
12	Lion Fabrics	1	Virtual
13	Optum Global Solutions	3	Virtual
14	Prometheus Consulting	1	Self Placed
15	S&P Global	1	Virtual
16	Sarvome Developers (Jotindra Steel and Tubes Limited)	1	Virtual
17	Skylar Technology Pvt. Ltd	1	Self Placed
18	Splash Star	1	Self Placed
19	Team Computers	2	Virtual
20	The Muthoot Group	1	Self Placed
21	Whitethought.In	1	Self Placed
22	Wipro Ltd	1	Self Placed
	Higher Studies	45	Self Placed
	Entrepreneurship	2	Self Placed
<b>Grand Total</b>		<b>79</b>	

## 7. Faculty of Behavioral & Social Science

S.No	Company name	FBSS	Campus type
1	Brickred Infinite Solutions Private Limited	1	Self Placed
2	Culturro Technologies	1	Self Placed
3	PKU Care Foundation	1	Self Placed
	Higher Studies	34	Self Placed
<b>Grand Total</b>		<b>37</b>	

## 8. Faculty of Architecture and Design

S.NO	COMPANY NAME	FAD	Campus type
1	Design Academy	1	Self Placed
2	Meinhardt (Singapore) Pte Ltd	1	Self Placed
3	Radiant Interprises Pvt Ltd	1	Self Placed
4	Studio ATK	1	Self Placed
5	Systematic System	1	Self Placed
6	upGrad Education	1	Self Placed
	Higher Studies	3	Self Placed
<b>Grand Total</b>		<b>9</b>	

## 9. Hotel Management:

S.NO	COMPANY NAME	FHM	Campus type
1	BelCibo Hospitality Pvt Ltd	2	Self Placed
2	Byju's	1	Self Placed
3	Colocal "the cacao artisans"	1	Self Placed
4	Country Inn by Suites	1	Self Placed
5	Crowne Plaza	1	Self Placed
6	Le Meridien, Gurgaon	1	Self Placed
7	PVR Limited	1	Virtual
8	Qing Ambay City Developers corporation Ltd	1	Self Placed
9	Ropan.in	1	Self Placed
10	TS Traders	1	Self Placed
11	Unh Management Services Private Limited	1	Self Placed
12	Varite	1	Self Placed
13	Vivanta by Taj	1	Self Placed
	Entrepreneursip	1	Self Placed
<b>Grand Total</b>		<b>15</b>	



### 8.3 Extra / Co - Curricular Activities

Manav Rachna Educational Institutions lay special emphasis on Extra / Co Curricular Activities which is taken care by Students Welfare. It is a center for students taken care and supervision which serves as a liaison between students and administration. Students Welfare closely works with students across all years to provide Leadership, Social, extracurricular and academic counseling programmes. It endeavors to develop the personality of the student in all spheres of life which it undertakes through various student- oriented programmes. It believes that providing an opportunity, will bring out the hidden talent of the students and to conceptualize "out of the box" ideology. This aims at promoting extra-curricular and developmental activities among students by identifying talented and interested students in the field of Music, Dance, Literature, Fashion, Arts, Social Responsibility, Theatre, Photography, Health etc. and thereafter, nurturing their individual talent and giving them a supportive environment to plan and execute various activities in the said areas, thus making a major contribution towards their holistic development.

Students Welfare also work very closely with Accredited Bodies such as AICTE and UGC for the programmes like Unnat Bharat Abhiyan, Ek Bharat Shrestha Bharat, Swachh Bharat Abhiyan Swachatta Pakhwada, FIT India Movement and many social initiatives like Anti Ragging Seminars, Human Rights Road Safety Week and many more to spread awareness & eradicate the evils of the society. This also shoulder responsibility towards society by active participation, awareness and creating mass movement for various social issues in association with National Service Scheme, Red Cross, Paryavaran Sanrakshan Gatividhi as well as very closely work with SPIC MACAY Manav Rachna Chapter - a Society for the Promotion of Indian Classical Music and Cultural amongst Youth.

As a part of co-curricular activity Students Welfare shares the responsibility of educational tours organized by various teaching departments. A large number of workshops and courses like, Youth Leadership Training Camps, Value-based Spiritual Course, Personality Development Camp, Youth Parliament, Students Talent Hunt, Documentary, Literary, Photography, Festivals celebration, Treasure Hunt, Talent Competitions for Faculty and Staff, Film and Book reviews, Debates and Declamations, Folk Dance competitions, etc. are organized.

Annual Cultural Fest RESURRECTION consisting of many events of Music, Dance, Theatre, Literary, Fine Arts and Fashion is also organized during academic session which aims in promoting rich culture and heritage of the country based on different folk dance and singing competitions of different states. For students, it is a great way to understand the rich heritage of India and learn about the importance of various Festivals. Along with enthusiasm and fun for the activities, qualities like sensitivity, creativity and togetherness are also inculcated in the students, which truly enhance the joy and happiness of celebrating festivals.

Social Responsibility drives, Anti Ragging Seminars, Road Safety Week, Street Plays, Photography Competitions, Workshops and National Festivals like Independence Day, Republic Day are celebrated with patriotic fervor, year after year. A Techno-Management Fest, especially designed for the students of Engineering, Management and other technical Institutions, is also organized in association with various faculties of the University.



National Festivals like Independence Day, Republic Day are celebrated with Patriotic fervor, year after year to promote ethics and values amongst students and faculty members. Celebrating festivals has become an integral part of learning and building a strong cultural belief. Other National festivals like Lohri, Holi, Baisakshi, Dusshera, Diwali, Navratri, Christmas Day, Teachers day, Ekta Diwas, Matrabhasha Diwas, International Yoga Day, International Women's Day are celebrated with full zeal and enthusiasm, which ties all students and faculty members from almost every religion, caste and community together. Celebrating these National and International Festivals brings students together and also provides an opportunity to learn more about different culture with many reasons to rejoice. Students come to learn about different festivals, the reason for the celebration and its significance. It not only provides an opportunity for students to respect but also provides them an opportunity to participate in events that are not their own. Participation in these festivals ensures that students get to showcase their talent and exposed to the essence of festivals in various ways through street play, folk dance, poetry, declamation, singing, group discussions, fashion etc which promotes harmony among different sections of students, bridging the linguistic and regional barriers. This aims at promoting extra-curricular and developmental activities among students by identifying their talent and nurturing their individual talent and giving them a supportive environment to plan and execute various activities which makes a major contribution towards their holistic development.

### **VARIOUS SOCIETIES / GROUPS**

At Manav Rachna, students are spoilt for choice as there are as many as 9 Extra Curricular Groups that cater to varying interests. "Each of these groups provides a platform to the students to showcase their talents and channelize their energies. They also foster a sense of fellowship among student of different streams and give them a great sense of cohesiveness and belonging," Each group provides a conducive environment to students to plan and execute various activities, thus contributing to their holistic development and staying connected with members of similar interests.

Here, we give you a look into their Form & Character:

**Music Group "SURTARANG"** : This Group covers activities like Solo, Duet and Group Singing, Jugalbandi, Battle of Bands, Folk Music, Sufi, Classical, Western Music, Instrumentals, Parody etc. Students can also look forward to Jamming sessions and Music Festivals.

**Dance Group "MRIDAKSH"** : This Group has woven in Solo and Duet Dance performances, Group Dance, Western Dance (Salsa, Jazz, Street etc.), traditional and Folk Dance Competitions/ Festivals in its repertoire.

**Literary Forum** : This Forum involves activities like Debate and Declamation, MUN, Youth Parliament, Quiz and GK, Poetry, Article writing, Book reviews, Film reviews, Literary festivals, TV anchoring and News reporting, Panel discussions, Storytelling Competitions. There is enough to keep members busy.

**Fine Arts Group "AAREKH"** : This group brings out the artist in every student encouraging them to indulge in Sketching, Painting, Clay Modeling, Pottery, Cartoon and Caricature making, Tattooing, Sculpture and Rangoli. The Club plays an active role in the festival of Arts, Origami, etc.

**Manav Rachna NSS Team** : This team nurtures the activist in every student whereby they can take up causes like Anti Ragging Awareness, Environment, Health and Hygiene, Sustainable Development, Education for All, Computers for All, Language enhancement for Housewives etc.

**Theatrical Group "PAIGAM"** - This Group covers activities like Nukkad Nataks, Drama, Skits, Standup Comedy, Mono Acting, Mimicry etc.

**Fashionistas "AAIRA"** - As the name signifies, this Group is all about Glamour and Beauty, focusing its activities on Hairstyling, Beauty Contests, Ramp walks, Best Dressups, Crazy Caps, Fashion Shows, Display/ Tableau Competitions, Fancy Dress, Character Display (Based on an Era, Writings) etc.

**Photography Group "BROWNIE"**- This cluster pampers students' passion for Photography, Film Making, Video Graphy and Photo walks. Workshops by Canon, theme based Photography and Exhibitions are also a regular feature.

### **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 Clan's role is to create more fervent connections at Manav Rachna, as well as to:

1. Facilitate an environment for students which promote academic excellence and improve 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 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 major events organized during the Academic Year 2020-21:**

S.No	Name of the Event	Date(dd.mm.yyyy)
1	Maa - Protect the Earth- An initiative to protect Environment	01.07.2020
2	Observance of National Doctors Day	01.07.2020
3	Virtual Open Mic	04.07.2020
4	Observance of Guru Purnima	05.07.2020
5	Shandaar Shanivaar- Weekend Special	01.08.2020
6	Observance of Eid- Al Adha	01.08.2020
7	Observance of Raksha Bandan	03.08.2020
8	Observance of Birthday of Lord Krishna - Janmashtami Special	12.08.2020
9	AAZADI 74- Independence Day Celebration	11.08.2020
10	Fit India Freedom Run	15.08.2020
11	Observance of Ganesh Chaturthi	22.08.2020
12	Observance of Onam	31.08.2020
13	Observance of National Nutrition Week	02.09.2020
14	Celebration of Teacher's Day	05.09.2020
15	Observance of International Peace Day	21.09.2020
16	Micro Training Session on Traffic Distancing- Doori Hai Zaroori: A Nationwide Digital Campaign appealing for Traffic Distancing in association with NGO, Drive Smart, Drive Safe	26.09.2020
17	Celebrating 150 years of Mahatma Gandhi	02.10.2020
18	World Space Week	04.10.2020
19	Celebrating our Air Pride- Indian Airforce Day	08.10.2020
20	World Student Day	15.10.2020
21	MANCH- Discussion Forum to celebrate Police Flag Day in association with Faridabad Police	24.10.2020
22	Orientation Program for SPICMACAY-MANAV RACHNA FARIDABAD CHAPTER	24.10.2020
23	Observance of Vigilance Week	27.10.2020
24	Observance of Diwali	14.11.2020
25	Observance of Constitution Day	26.11.2020
26	Observance of Indian Armed Forces Flag Day	07.12.2020
27	Observance of Vijay Diwas	16.12.2020
28	Celebration of Christmas Day- Jingle Ball	24.12.2020
29	Inaugural Session and University Level Competition for National Environment Youth Forum under Paryavaran Sanrakshan Gatividhi on the occasion of National Youth Day	12.01.2021
30	Cultural Celebration on the occasion of Lohri	13.01.2021
31	Observance of Parakram Divas	23.01.2021
32	Celebration of Republic Day	26.01.2021
33	Grand Finale of National Environment Youth Forum hosted by Manav Rachna	26.01.2021
	Award Ceremony: National Environment Youth Forum hosted by Manav Rachna	28.01.2021



34	Cultural Celebration of Basant Panchmi	16.02.2021
35	Career Counselling Excursion Tour for Government Schools	19.02.2021
36	Celebration of Matrabhasha Diwas	20.02.2021
37	Celebration of International Women's Day 2021	08.03.2021
38	Certification Ceremony of Student Council of Students Welfare	08.03.2021
39	Azadi Ka Amrit Mahotsav	12.03.2021
40	Manav Rachna Students Volunteered at the ISSF International Shooting World Cup 2021- New Delhi	18.03.2021
41	Elimination of Single use Plastic	30.03.2021
42	Celebration of 400 <sup>th</sup> Prakash Parv of Shri Guru Tegh Bahadur Ji	01.04.2021
43	Observance of Navratri and Hindu Navrash 2078	13.04.2021
44	Awareness to Combat COVID-19- Second Wave	13.04.2021
45	Observance of Ramadan Kareem	14.04.2021
46	Virtual Cultural Celebration of Vaishakhi	14.04.2021
47	Observance of Ram Navami	21.04.2021
48	National Civil Service Day	21.04.2021
49	Observance of Earth Day	22.04.2021
50	Valorant Tournament	30.04.2021
51	Session on best exercises to avoid hospitalization during COVID-19	27.04.2021
52	Observance of International Dance Day	29.04.2021
53	Observance of Gurudev Rabinranthan Tagore Jayanti	07.05.2021
54	Open Mic Event to celebrate Motherhood on the occasion of Mothers Day	08.05.2021
55	Observance of Ramadan Mubarak	14.05.2021
56	Webinar on Guidance of Psychosocial Counselling for COVID Positive Patients and their Family Members.	14.05.2021
57	Observance of World Environment Day	05.06.2021
58	Open Mic on the Occasion of Father's Day and World Music Day	20.06.2021
59	Celebration of 7 <sup>th</sup> International Day of Yoga	21.06.2021

### Life Skill:

Sl. No.	Event	Dates of Events
1	Student Life Skills to survive and thrive during Covid -19	1.07.2020- 1.08.2020
2	One Week Celebration on Essence of Water: JALSA	1.10.2020-05.10.2020
3	Photography skill Development Program	30.07.2020-12.11.2020
4	April Kool	1.4.21-30.4.21
5	Awareness program on One week Environment Protection Program	1.6.21-7.6.21
6	Yoga - Adhyaay	1.6.21-30.6.21
7	Workshop on Yoga Day	21.6.21

## GLIMPSES... with the eye of the Camera



## Certification Ceremony of Different Societies



International Women Day





**AAZADI'74- Celebration of Independence Day**



**Celebration of Basant Panchmi**





**Lohri Celebration**



## 8.4 Sports Activities

Manav Rachna Sports Academy (MRSA) is an unparalleled sports platform, experience which offer 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 the 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 of 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 2020-21 are tabulated below:

Name of the Event/ Competition	Date of Event/Competition (DD-MM-YYYY)
14 <sup>th</sup> Manav Rachna Corporate Cricket Challenge 2021	23-01-2021 to 27-03-2021
FIT India Freedom Run for FIT India Movement 2020	01-10-2020
Cyclothon for FIT India Movement 2020	01-12-2020 to 09-12-2020, 02-12-2020 to 16-12-2020, 03-12-2020 to 23-12-2020



## 8.5 SCHOLARSHIP/FREE-SHIP POLICY FOR AY 2020-21

### A) Schemes 'Utkarsh' and 'Uttam' for the candidates on the basis of MRNAT-2020 score for UG & PG programmes:

MRNAT 2020 Score	'Utkarsh' *	'Uttam' **
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 those candidates, who enrolled for admission within a period from 1<sup>st</sup> April 2020 to 31<sup>st</sup> May 2020)

\*\* Scheme 'Uttam' is for those candidates, who enrolled for admission from 1<sup>st</sup> June 2020 to 31<sup>st</sup> July 2020)

### B) Free-ship/Scholarships to students on the basis of marks/CGPA in the qualifying examination as per following criteria: UG level programmes [Except B. Tech Mechanical Engg. Industry Integrated (in association with JBM) & BDS Programme]

Marks / CGPA in Qualifying Examination	Tuition Fee Waiver
90% and above	100%
85% to 89.99%	50%
80% to 84.99%	25%

#### ii) B.Tech Mechanical Engg. Industry Integrated Programme (in association with JBM)

Marks / CGPA in Qualifying Examination	Tuition Fee Waiver
90% and above	50%
85% to 89.99%	25%

#### iii) PG Level Programme (Other than MDS Programme)

Marks / CGPA in Qualifying Examination	Tuition Fee Waiver
80% and above	100%
75% to 79.99%	50%
70% to 74.99%	25%



- C) **Free-ship/ Scholarships to students seeking admission for B.Tech - Engineering programmes on the basis of their JEE Mains - 2020 Overall All India Rank as per following criteria**

JEE Mains-2020 Overall All India Rank	Tuition Fee Waiver
Upto 50000	100%
50001 – 100000	50%
100001-150000	25%

- D) **Free-ship / Scholarships to students seeking admission for BDS Programmes on the basis of their NEET-2020 Score / Marks as per following criteria**

NEET-2020 Score/Marks	Tuition Fee Waiver
501 & above	100%
451-500	50%
401-450	25%

- E) **Free-ship / Scholarships to students seeking admission for MBA programmes on the basis of their CAT / MAT / CMAT / ATMA-2020 Score/Marks as per following criteria**

- i) **On the basis of CAT-2020**

CAT - 2020 Score / Marks	Tuition Fee Waiver
80% and above	100%
75% to 79.99%	50%
70% to 74.99%	25%

- ii) **On the basis of MAT/CMAT/ATMA-2020**

MAT/CMAT/ATMA-2020 Score / Marks	Tuition Fee Waiver
95% and above	100%
90% to 94.99%	50%
85% to 89.99%	25%

- F) **Free-ship / Scholarships to students seeking admission for B. Arch programmes on the basis of their NATA-2020 Marks / Score as per following criteria**

NATA-2020 Marks / Score	Tuition Fee Waiver
121 & above	100%
101 to 120	50%
91 to 100	25%

- G) Free-ship / Scholarships to students seeking admission to any UG programme on the basis of their SAT-2020 Marks/Score as per following criteria**

<b>SAT-2020 Marks/Score</b>	<b>Tuition Fee Waiver</b>
1301 & above	100%
1201 to 1300	50%
1101 to 1200	25%

**Provision of Teaching Assistantship<sup>#</sup> for the candidate enrolled for M.Tech and MPT Programmes, as detailed below:**

Candidates who have secured 70% overall marks or 7.00 CGPA in the qualifying examination are considered for 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 entire tenure 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.**

- H) Free-ship / Scholarships to the Wards of MREI Employee:** 25% Tuition fee Waiver (limiting up to maximum of Rs. 12,500/ per semester) to First Child only. However, if first child is already benefitting with 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 the same HEI:** 10% Tuition fee Waiver (limiting up to maximum of Rs. 5000/ per semester) 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 free-ships/scholarships in either of above stated categories from A to I, he/she shall be getting this benefit over and above to freeship/scholarship of that category with a maximum limit upto 100% Tuition Fee Waiver.

- J) Free-ship / Scholarships to the Alumni of Manav Rachna Educational Institution:** 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/ per semester) during admission to the programs offered by any of the HEI.

**In case, candidate is eligible for any free-ships/ scholarships in either of above stated categories from A to I, he/she shall be benefited over and above to free ship/scholarship of that category with a maximum limit of upto 100% Tuition Fee Waiver.**

**Note:**

- **Proof of Relationship is to be provided wherever applicable**
- **For continuity, University Scholarship policy would be applicable from 2<sup>nd</sup> semester**

### **Conditions for Continuation of Free-ship / Scholarship in Subsequent semesters for above categories:**

Progress of students, those who awarded with scholarship, in subsequent semesters shall be reviewed after end of every semester for continuation, based upon his / her Performance in the previous semester.

**Only after fulfilling the criteria mentioned below, continuation of scholarship to student, may be consider:**

- Minimum SGPA of 7.0 in each semester (without any backlog).
- 75% attendance in all courses in each semester.
- Applicant should NOT have been Suspended during his/her tenure, 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 declaration certificate signed by both student & parents is to be provided.

**NOTE:**

- In case at any stage during the tenure if its comes to notice, a students does not match the above said criteria, his/her Scholarship / tuition fee shall be cancelled / forfeited.
- For 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).

**K)** Suitable free-ship shall be available to high achievers in the field of Sports, Wards of Defence Personnel who have sacrific their lives in War / terrorist attack, Persons suffering with Thalassaemia Major, Physically handicapped students etc. on the basis of case to case.

**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:**

Event/Level	Participation	Medal Winner
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 under any of the above categories of sports shall be required to produce the relevant documents of proof of his/her participation and Medal Won. Scholarship is subject to approval of Sports Committee under Director-Sports.**

**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.**

#### **MERIT SCHOLARSHIP OTHER THAN ABOVE SCHOLARSHIP/ FREE-SHIP**

In order to motivate the students for better and sustained academic performance, MRIIRS offers 'Merit Scholarship other than Freeship/scholarship enumerated below, for students securing 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> positions in the Odd & Even semester exams (Based on the amalgamated SGPA/CGPA) every year for each programme being run at MRIIRS, as under:

- First Position** : 25% of Tuition Fee or Rs.25000/- whichever is less
- Second Position** : 15% of Tuition Fee or Rs.15000/- whichever is less
- Third Position** : 10% of Tuition Fee or Rs. 10000/- whichever is less

**The following are the guidelines for grant of above Merit Scholarships:**

- Any programme must have minimum strength of 90 students or more in semester exam to qualify for First, Second and third position scholarship; otherwise only a solitary topper shall be given a solitary first position scholarship.
- If the strength of the students in a course is 10 or lesser, No Scholarship shall be awarded for that course.
- A student shall be benefit for tuition fee waiver only from one a single source.

## CHAPTER 9

### INSTITUTIONAL SOCIAL RESPONSIBILITY

#### Women and Gender Sensitization Committee (WGSC)

WGSC 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 WGSC 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.





## Women and Gender Sensitization Committee

### - Activities AY 2020-21

S. No	Schedule	Audience	Theme/Topics	Faculty
1.	Sept. 2020	New Batch of Students	Awareness talk on Gender equity is key - Empowering women and girls-FET	Orientation and Admission Team-FET
2.	Sept. 2020	New Batch of Students	Gender Equality is a Human Fight not a Female Fight-NON Engineering	Orientation and Admission Team NON-Engineering
3.	Sept. 2020	New Batch of Students	A Session on Promoting Gender Equality	FMS
4.	October 2020	Students and Staff	Individual Differences - Gender Equity	FBSS
5.	November 2020	Students and Staff	"Masculinity in The Victorian Age"	FMeH
6.	December 2020	Students and Staff	Menstrual hygiene	MRDC
7.	January 2021	Students and Staff	Men's Work or Women's Work? Identifying and Analyzing Traditional Gender roles in the Workplace	FBSS
8.	February 2021	New Batch of - BDS Students	Gender Sensitization and Equity	MRDC
9.	March 2021	Students and Staff	Celebration of International Women's Day 2021	DSW
10.	April 2021	Students and Staff	Women Empowerment Art-Mart (Poster Making Competition)	FCBS

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

In recognition of the enormous contribution made by Manav Rachna Educational Institutions (MREI) in the identification and nurturing of Sports Talent of the country over the past 25 years, **the President of India conferred the prestigious “Rashtriya Khel Protsahan Puraskar” 2021. The award was received by Dr. Prashant Bhalla, President, Manav Rachna Educational Institutions (MREI); and Dr. Amit Bhalla, Vice President, MREI.** Smt. Satya Bhalla, Chief Patron, MREI; Sports Mentor Mr. Ronjan Sodhi and Dr. Sanjay Srivastava, VC, MRIIRS were also present at this event of great honor.





## 2. Swacch School, Swacch Ghar Workshop

In collaboration with the Municipal Corporation of Faridabad and Way of Life Foundation, **Manav Rachna International Institute of Research & Studies**, organized an orientation program from **4th - 7th October 2021** to spread awareness about the Swacch School, Swacch Ghar campaign under Banega Swachh Faridabad.

The four-day-long campaign covered 180 schools with the participation of around 800 Students and Teachers across the four locations chosen to cover all Schools in Faridabad in the four Zones, namely Old Faridabad (Manav Rachna 14), Greater Faridabad (Aravali International School, Sector 85), Ballabhgarh (Aggarwal Public School, Sector 3), and NIT (DAV Public School, Sainik Colony Sector-49). Inaugurated by Sh. Yashpal Yadav, Commissioner Municipal Corporation of Faridabad and Sh. Inderjeet Kuleria, Joint Commissioner MCF on Day 1, his words ignited passion among Students and Teachers to become Eco-Ambassadors.

Dr. N C Wadhwa (Retd. IAS), Director General, Manav Rachna Educational Institutions, welcomed the Students and Teachers from various Schools. He subsequently briefed them about the Swacch School, Swacch Ghar campaign framework, elucidating the vision of MCF Commissioner, Sh. Yashpal Yadav IAS, to make the Smart City Faridabad clean and hygienic. His words highly motivated Students and Teachers to become Eco-Ambassadors.

Furthermore, CA Priyanka Garg, Founder - Way of Life Foundation, delved effectively into the details of the initiative's framework. The first step was waste segregation with a Call for Action-Har Ghar Do Bin, followed by a ward-wise allocation plan with SoP's and definite roles of Students, Teachers, and School authorities. Additionally, she explained the MCF Support System and the new guidelines that they were enforcing to make Faridabad clean and smart.



The program also included interaction with the Master Trainers, providing a glimpse into the upcoming Training Workshops for the Schools under this campaign with various MCF-appointed Master Trainers from Humankind Foundation, EcoSavera, Myra Foundation, Greenhands NGO, among others. Moreover, young innovators Lavanya Verma and Nusrat Fatima, from Modern BP Public School, displayed their automatic waste segregator machine, fitted with sensors to separate dry, wet and metal waste.

While wrapping up, the Teachers and Students enthusiastically chanted the slogan 'Har Ghar do bin.' They sang Chodo Kal ki Baatein on all four days to display their support for a Naya Daur of Faridabad.

### 3. Free Medical Camp

***"Control your health and well-being is among of those moments in your life that you wants to be completely selfish and not feel bad about it. If you want to meet your goals, you have to feel it & make it for you. You have to make it work for you and you alone. Anything less is a setup for failure." - Jennifer Hudson***

Nowadays, our systems and customs seem to affect the way we think and feel about health. We continuously work without concerning ourselves with our well-being because our problems don't seem significant enough to disrupt our routine, but often this kind of neglect leads to issues that have a significant effect on our lifestyle and those around us as well.

Physical fitness is not the sole basis of being healthy; being healthy means being mentally and emotionally fit. Being healthy should be part of your overall lifestyle. Living a healthy lifestyle can help prevent chronic diseases and long-term illnesses. Feeling good about yourself and take care of your health is important for your self-esteem and self-image. Maintain a healthy lifestyle by doing what is right for your body.

Teachers and other members of the working staff are an important and under appreciated part of any institution. As a mark of respect and gratitude, Dr. OP Bhalla Foundation collaborated with Tata Capital to launch a free medical camp during the pandemic to provide them with a medical check-up which included General Health, Eyes, and Dental examinations. The event was a success because more than 100 people attended. This event successfully promoted the concept of putting one's health and well-being first in order to live a long, happy and comfortable life.

### 4. Christmas Celebrations

Dr. OP Bhalla Foundation started an initiative 'Be a Santa to Someone' under which Team Foundation organised a Toy and Book Collection Drive till 21<sup>st</sup> December 2021. Faculty members and Students from Manav Rachna Schools and both Universities came forward to donate toys, books, art materials, stationery and clothes for the underprivileged children to further donated at various NGOs.

The first donation drive was organised on December 22<sup>nd</sup> 2021. Foundation Team and Student Volunteers visited BTP The Resort, Sector-75, Faridabad, where a group of enthusiastic ladies from the society have started evening tuition classes for the children of their house help.

Team Foundation has always come ahead to help and support communities in their philanthropic endeavors. Continuing this resolve, Dr. OP Bhalla Foundation has taken this Community Centre Education Initiative under its wings and will continue to support its efforts.



Team Foundation donated gifts like Whiteboard, Pens, Pencils, Art Materials and Books to facilitate the efforts of these Women. The Foundation Volunteers played games and educated the children about the importance of waste segregation and highlighted the need to wear masks and follow the Covid protocols. (Waste segregation in X-mas)

Further celebrating the season of joy and festivity, Dr. OP Bhalla Foundation set up an Informative Stall at the Christmas Carnival of Manav Rachna International School, Charmwood on 25th December 2021. The purpose of the Stall was to educate Parents and Students about the Foundation and its Initiatives. A 'Selfie with Santa' photo booth was also set up to make the Stall more interactive. A Foundation Team Member dressed as Santa clicked photographs with Students while the Volunteers apprised the Parents about the Initiatives. The Foundation Stall entertained around 300 Students and Parents.





## 5. Softball trials for Asian Games

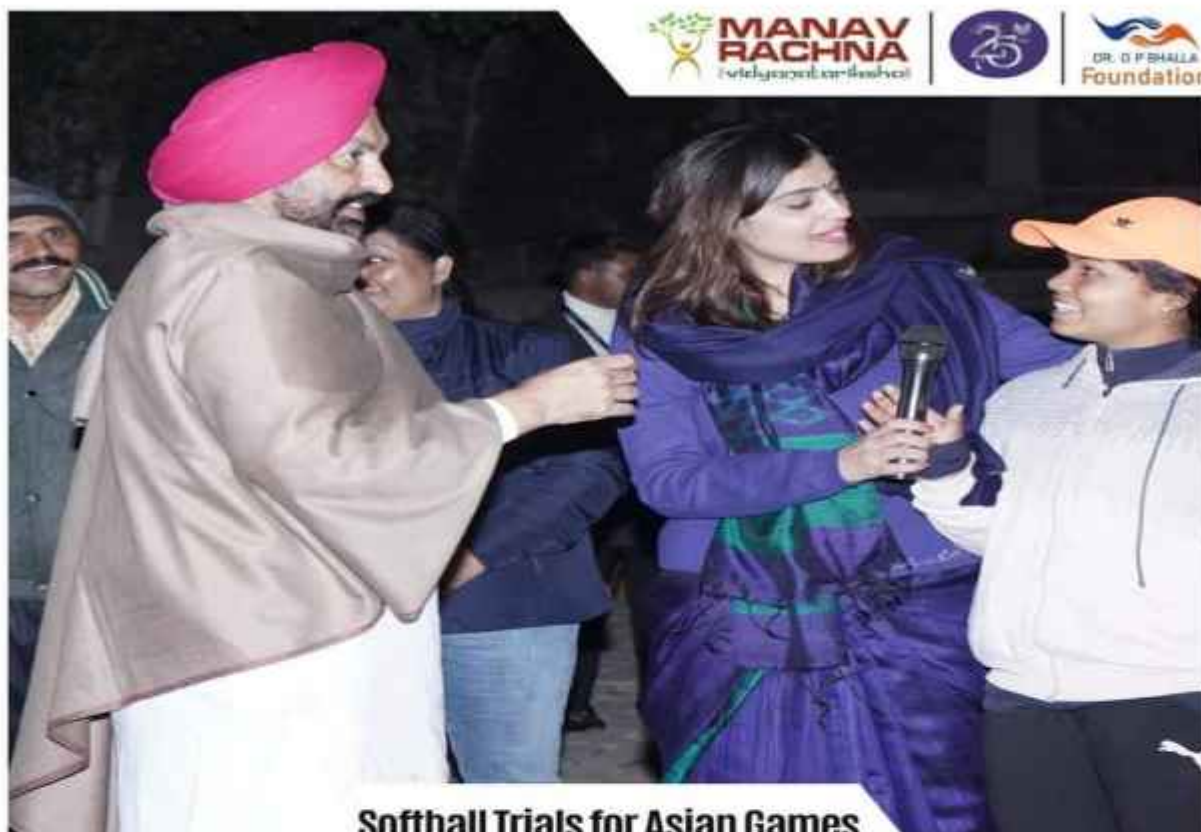
Sports have repeatedly proven to be a tool for uniting people, a beacon of hard work, morale, and community empowerment. Dr. OP Bhalla Foundation and Manav Rachna Educational Institutions acknowledge this fact and create opportunities to promote Sports and Training among the young Talent of the country. Furthering to this, Dr. OP Bhalla Foundation along with MREIs hosted Trials for the Girls Team of Softball Association of India. The Trials were held over two days at Manav Rachna Campus for the upcoming Asian Games to be held in China in 2022.

Players from Pan India participated in the Trials and were in high spirits throughout their stay at the Campus. Manav Rachna and Dr. OP Bhalla Foundation provided infrastructural support, boarding, and lodging to the players for smooth conduction of the event.

Smt. Neetal Narang, President, Softball Association of India, and Dr. Pravin Anaokar, CEO, Softball Association of India were present throughout to motivate the Players and appreciated the arrangements and support facilitated by the MREI Team.

Since 'All work and no play, makes Jack a dull boy', a musical evening with bonfire, dance and fun games was organised by DSW of MRIIRS for the Players to unwind and to relax.



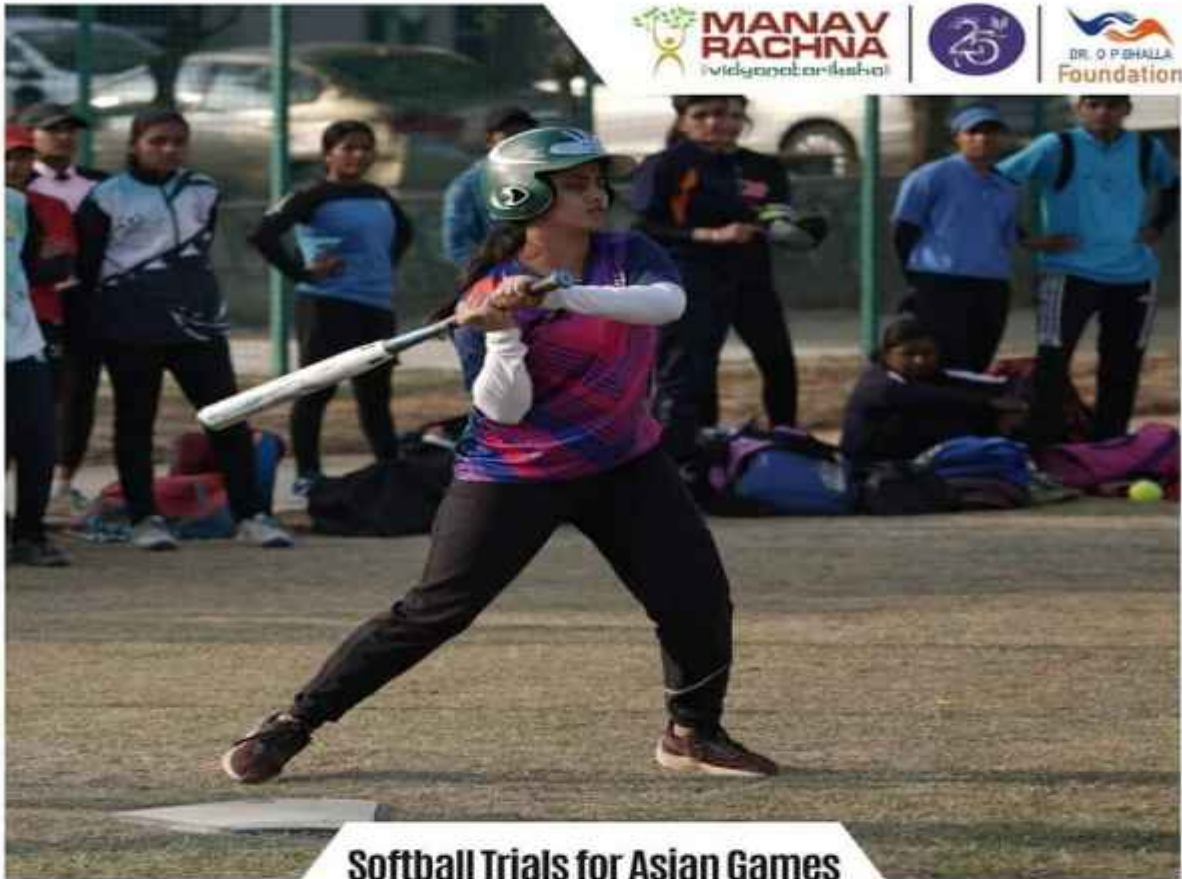


**Softball Trials for Asian Games**



**Softball Trials for Asian Games**













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