

# **THE UNIVERSITY**

## THE MANAV RACHNA VIDYANTARIKSHA PHILOSOPHY



Manav Rachna carries forward the mantle of excellence and professionalism with the philosophy of Manav Rachna “Vidyantariksha”. This is a conjugation 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 to which we belong or exist. It can be broken into antar and ikshan which means inner vision. Hence the combination, the core promise of Manav Rachna becomes “The reality of inner vision or root of all knowledge”.

## A TRIBUTE TO A LEGEND



The vision flowered  
in the mists of time...  
The fragrance continues...

Dr. O P Bhalla not a mere persona but a visionary and dynamic educationist who literally shaped an educational movement called Manav Rachna with the intent to create better human beings.

The mission continues with Manav Rachna Educational Institutions dedicated and committed as always to train and equip its students with latest knowledge and skills in the chosen fields in the backdrop of Indian ethos and values to enable them to face global challenges and with a view to transform them into insightful, honourable and responsible citizens of this great country; and to imbibe a work culture of theoretical and applied research leading to creation and dissemination of knowledge. While Dr. O P Bhalla is no more with us, his rich legacy is a standing testimony of excellence at work whose fragrance still continues to inspire us.

## MESSAGE FROM Prof. (Dr.) SANJAY SRIVASTAVA



### **Vice Chancellor, Manav Rachna University**

The education at Manav Rachna University (MRU) aims not only imparting knowledge and skills, but a positive attitudinal change. Team MRU, attempts to mould young minds with a bright vision of the future driven by Integrity, Perseverance and Passion to be able to make a difference in the work place. We are committed *to make every student of Manav Rachna a complete pragmatic and panoramic human being in totality, not only a success story, an excellent example of achieving self actualization and success in all spheres of life.*

The economy of our country is surging forward and the world is looking at us not just as a developing nation, but a country filled with immense potential, passion and above all, an attitude. In order to achieve Employment Generation, +10% GDP Growth per year, Reduction of Poverty and making Indian Enterprises World Class in terms` of Quality and Cost, we have to constantly revitalize our resources. Our country has only 1.35% of the World GDP and has 17% of the world population. Demands are high but buying power is low. Hence, we will need to increase our export related activities by 10 times, as the foreign markets are 75 times bigger than the Indian market. But the competitive edge we have is that 71% of our population or 742 million people are below 35 years of age and we are young.

The Yoga Sutra of Patanjali says, **“When you are inspired by some great purpose, some extraordinary project, all your thoughts break their bounds. Your mind transcends limitations, your consciousness expands in every direction, and you**

**find yourself in a new, great and wonderful world”**. At MREI we are working on this mission and managing in such a business environment demands a new cadre of professionals with a global outlook and yet with a deep rooted value system emanating from our vast culture.

With this paradigm Manav Rachna University (MRU) has been sensitively proactive in realizing this need. Anatomically, the culture at MRU is marked by highly traditional ethos whereas physiologically it is ornated by global perspectives. This way we attempt to mould young minds with a bright vision of the future driven by a mission to make a difference in the workplace as values of commitment, integrity and perseverance are imbibed in them. The program structure, teaching methodology and superlative industry interaction with the focus on attitude, behavioral skills and global orientation have been the key features of its educational philosophy.

Continuous learning is not a choice in today’s business environment but a necessity and it is a challenge for the management education to keep pace with the ongoing dynamism, which has necessitated a total metamorphosis. We, at MRU have been sensitively proactive in realizing this paradigm shift and there has been a constant and conscious endeavor to update and revise the course curriculum in tune with the dynamic needs of the business world thereby abridging the gap between the “desired” and the “produced”. The student-centric learning focuses on foundation of concepts in the first year of the program, where students are exposed to functional and operational areas of Courses in their respective Program.

This way, MRU develops human capital for industry not only suitable for just today or tomorrow, but for a long term. We instill in our students that “There is no passion to be found playing small – in setting for a life that is less than the one you are capable of living”.

**Prof. (Dr.) Sanjay Srivastava**  
**Vice Chancellor, Manav Rachna University**

## ABOUT MANAV RACHNA UNIVERSITY

Manav Rachna University is a State Private University (established by Haryana State Legislature Act No 26 of 2014 & under section 2(f) of UGC Act 1956). The University has evolved from Manav Rachna College of Engineering (MRCE), a **NAAC Accredited 'A' grade institute**. Times Engineering Survey 2014 ranked MRCE (now MRU) 38<sup>th</sup> among all Engineering Institutes of the country including IITs and NITs and 14<sup>th</sup> among private Engineering Institutes. In the Year 2015 the rankings of MRU improved to 30<sup>th</sup> and 10<sup>th</sup> respectively. In the rankings released on 27<sup>th</sup> May, 2016, MRU is ranked 10<sup>th</sup> among all the private engineering institutes and 29<sup>th</sup> among all engineering institutes across the country.

### Times Engineering Survey

Excerpts from Private Engineering Institute Rankings 2016, (TOI, May 27, 2016)

1	SRM Institute of Science and Technology, Chennai
2	BITS Pilani
3	BMS College of Engineering, Bangalore
4	Amity School of Engineering & Technology, Noida
5	Vishwakarma Institute of Technology (VIT), Pune
6	BIT, Mesra - Ranchi
7	Manipal Institute of Technology, Manipal
8	Maharashtra Institute of Technology (MIT), Pune
9	Vellore Institute of Technology (VIT), Vellore
10	<b><u>Manav Rachna College of Engineering, Faridabad</u></b>
11	D Y Patil Group's: Ramrao Adik Institute of Technology, Navi Mumbai
12	Nirma Institute of Technology, Ahmedabad

The accreditations of MRCE are testimonial to the trust of accrediting bodies in the quality of education being offered. As MRCE was upgraded to Manav Rachna University, it brings with it a decade old trust of all stake holders; a well established teaching and learning process, guided by global best practices and a culture of academic excellence promoting research, innovation and entrepreneurship.

- MRCE is **NAAC accredited with 'A' Grade (September, 11<sup>th</sup> 2011-2016)**.
- B Tech Programmes of Computer Science & Engineering, Mechanical Engineering and Electronics & Communication Engineering of MRCE were accredited by **NBA** (provisional accreditation for 2 years, valid till 2015).
- **Tata Consultancy Services (TCS) accredited** MRCE and opens the placement season in campus.
- MRCE has been the designated **Nodal Centre for Virtual Laboratories, MHRD, Government of India** under The National Mission for Education through ICT for the past 4 years.
- MRCE has been awarded '**Excellent Engineering Institute in Haryana**' at CMAI National Haryana Education Awards, 2014.

## **Vision**

Centre for knowledge generation, dissemination and transfer in the frontier areas, which derives impetus from various disciplines of sciences, humanities and technology and generates globally relevant human resource and knowledge which addresses the future issues/needs of society.

## **Mission**

- To impart outcome based holistic education
- To disseminate education in frontier areas
- To produce globally competitive; ethical and socially responsible human resources

- To produce human resources sensitive to issues of Environment and Sustainable Development
- To develop Environment and Sustainable development as thrust area of research and development.

## Quality Policy

To continuously learn from the best practices, study role models and develop transparent procedures for empowerment of stakeholders.

## Strategic Objectives

- To facilitate, enhance & promote innovation in curriculum design and delivery and have Outcome oriented Learning Culture.
- To promote Research Environment and Management Practices
- To enhance the quality of the student learning experience
- To provide Resources and Infrastructure for Academic Excellence

## Learning Environment at MRU

**‘Give Wings to Your Ideas: Question, Research & Innovate’**

MRU provides its graduates a conducive environment which lays stress on developing global attributes. Some of the highlights of the learning environment at MRU are

- **‘Outcome Based’**: What can I do?
- **‘Learning by Doing’**: In-house summer trainings on latest technologies.
- **Self Learning & Exploring**: Through theoretical and experimental methods.
- **Research and Innovate**: Propose an idea and get funding to shape it.
- **Multidisciplinary**: Innovative project development with multidisciplinary teams
- **Collaborate and Develop Linkages**: Share and grow with international and national technical communities through Chapters of International professional bodies like IEEE, SAE, RSC, ASME etc



- **Comfort in Virtual World:** Simulate & build prototypes in Virtual labs; use modern softwares.

## **Collaborations and Tie-ups with Academia and Industry**

**Academic Tie ups:** Manav Rachna University has tie-ups with the following international universities to facilitate global exposure to its students:

➤ **Purdue NExT**

Wiley (with myriad Noble Prize winners as its authors) offers bouquet of courses of Purdue NExT, an online program that emphasizes interactive learning for advanced undergraduate and beginning graduate level courses. MRU and Wiley have entered into a professional arrangement to execute the above arrangement for its Engineering and Management Programmes.

➤ **Royal Agricultural University**

Royal Agricultural University, School of Real Estate and Land Management (RELM), UK has partnered with Manav Rachna for cutting edge pedagogy delivery for its MBA Programme which provides the students an opportunity to study in the UK and earn a Postgraduate Certificate (PG Cert).

➤ **Lahti University of Applied Sciences (LAMK), Lahti, Finland**

An MoU has been signed with Lahti University of Applied Sciences, Finland to collaborate on academic and research related activities. The scope of the collaboration encompasses the exchange of faculty and students, launch of activities like extension programmes, trainings, courses and exchange of publications and research reports

➤ **University of Tennessee**

MRU has tie ups with Tennessee University on projects related to sustainable environment whereby students from Tennessee University and Manav Rachna University collaborate to tackle social issues on sustainable environment to have cleanliness drive. Student exchange program is a part of the project.

➤ **US CMA (Certified Management Accountant):**

Manav Rachna University-BBA Program (Finance and Accounts) is integrated with US, CMA (Certified Management Accountant) to provide extensive career opportunities and to build the individual knowledge and competence in accounting and finance.

➤ **The Association of International Accountants (AIA)**

The BBA (Finance & Accounts) program at Manav Rachna University offers the students this opportunity to develop their skills and understanding of a course which is aligned with the AIA curriculum.

➤ **Algonquin College of Applied Arts and Technology, Ottawa, Canada**

Manav Rachna Educational Institutions (MREI) has signed an MoU with The Algonquin College of Applied Arts and Technology, Ottawa, Canada which sets for the terms and understanding to establish a Skill Development Centre of Excellence in India to impart training and up skilling workers in the Automotive and Plumbing sectors.

➤ **Edinburgh Napier University (ENU)**

MBA programme of Manav Rachna Educational Institution has collaboration with Edinburgh Napier University, UK. MBA-International Business has been jointly designed with Edinburgh Napier University.

## **Industry & Skill Development Tie-ups**

➤ **Su-Kam Power Systems Ltd.**

The Memorandum of Agreement (MoA) between Su-Kam Power Systems Ltd. and MRU aims at establishing the Centre of Excellence of Power Electronics at MRU campus and providing “in field” exposure to both faculty members and students to

the latest developments in the field of solar energy and its applications especially its commercial applications in the area of energy generation, storage and deployment.

➤ **Infosys**

Manav Rachna has been associated with Infosys since 2009 for training the students and faculty members under the purview of the Infosys Campus Connect Programme.

➤ **Cygnus Hospitals**

With the objective to provide industry ready and employable candidates, Cygnus Medicare Pvt. Ltd. and Manav Rachna University (MRU) signed an MoU to provide trained manpower in the Health Care sector and joined hands to bring structured BBA (Healthcare Management) program specializing in Health Care Management.

➤ **CLi-Bharat Sanchar Nigam Limited**

CLi and Manav Rachna University have signed a MoU to provide an Industry Aligned Program for Electronics & Communication Engineering students.

➤ **PHD Chamber of Commerce**

The Department of Management and Commerce at Manav Rachna University in association with PHD Chamber of Commerce attends, participates and organizes various events for Skill Development.

➤ **National Institute for Entrepreneurship and Small Business Development (NIESBUD)**

The Department of Management and Commerce, Manav Rachna University has undergone various events for its faculty members and students, under the major activities of the NIESBUD which are Training of Trainers, Management Development Programmes, Entrepreneurship-cum-Skill Development Programmes, Entrepreneurship Development Programmes.

➤ **All India Management Association (AIMA)**

MR Institutions are closely linked with AIMA and its Faridabad chapter (FMA). Faculty members attend various seminars, symposium, conclave and development programmes organized under the aegis of AIMA.

➤ **Tata Consultancy Services (TCS)**

TCS partners in multi-dimensional academic value addition programmes to provide MREI students with cutting-edge professional facilities like Internship Programme, Industrial Visits, Guest Lectures and Faculty Development Programmes.

➤ **SAP SE (Systems, Applications & Products in Data Processing)**

SAP has partnered with Manav Rachna to establish a SAP Student Academy at the University Campus to cater to its Functional/ Technical courses on Material Management, Financial Accounting, Sales and Distribution, Human Resources and ABAP.

➤ **National Human Resource Development Network (NHRDN)**

MBA students of MRU participate in various inter-college competitions and faculty members attend various workshops conducted by NHRDN. Executive committee members of NHRDN visit the campus & interact with MBA students.

➤ **Automotive Skills Development Council (ASDC)**

An MoU has been signed between Manav Rachna Skill Development Centre and Automotive Skills Development Council (ASDC) to offer skill development training program for employment in Automotive Sector.

➤ **The National Skill Development Corporation (NSDC)**

Ministry of Skill development and Entrepreneurship has signed a Memorandum of Understanding (MoU) with Algonquin Community College in areas of collaboration for skill development during the visit of Hon'ble Prime Minister of India, Shri Narendra Modi to Canada in April 2015. MREI was the Indian partner for Algonquin in this initiative. Under this agreement, MREI is setting up a training Centre of Excellence in the automotive and construction sectors at its campus in Faridabad.

➤ **Bombay Stock Exchange (BSE)**

In pursuit of bringing the best education to its students, MREI have initiated a tie-up with BSE Institute (the education and training wing of Bombay Stock Exchange which is the oldest and the largest (in terms of companies listed and 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.

➤ **Green Chemistry Network Centre (GCNC)**

MRU has launched the Green Chemistry Network Centre (GCNC). The programmes of GCNC emphasize the role of engineering professionals in the progression of Green Chemistry thereby offering reduction of waste materials and energy, which in turn will lead to cost reduction and improvement in profit margins.

➤ **National Entrepreneurship Network (NEN)**

NEN has a collaboration for mentoring & guiding students for establishing startup companies.

➤ **Indian Plumbing Skills Council (IPSC)**

MREI have signed an MoU with the Indian Plumbing Skills Council (IPSC) to develop skilled manpower in the plumbing sector.

# GOVERNANCE

## GOVERNANCE

### Governing body

The Governing body is the supreme authority of the University. All the movable and immovable property of the University vests in the Governing Body. It provides general superintendence and directions and to control the functioning of by how all powers as provided to the Act, Statutes, Ordinances, Regulations and Rules. In the Academic year 2015-16, the Governing Body met twice i.e. on September 5, 2015 and March 2, 2016.

### Members of Governing Body

1. Dr. Prashant Bhalla, Chancellor/Chairman
2. Dr. Sanjay Srivastava, Vice Chancellor
3. Additional Chief Secretary, (Higher Education), Haryana or his Nominee
4. Dr. Amit Bhalla, Vice President, MREI
5. Dr. N.C Wadhwa, Vice Chancellor, MRIU
6. Dr. M.M. Kathuria, Trustee, UET
7. Dr. Victor Gambhir, Vice Chancellor, JECRC University, Jaipur
8. Col. (Retd.) V.K. Gaur, Member
9. Dr. M.L. Khurana, Advisor
10. Sh. Amit Kumar, FCA
11. Dr. K. Singh, Registrar/Member Secretary

### Board of Management

The Board of Management (BoM) is the Chief Executive body of the University and works under the overall directions of the Governing Body. The role of BoM is to ensure the establishment, monitoring and achievement of the University's mission and goals. This includes the creation and monitoring of and academic standards, goals and objectives; the establishment of academic and research units; supervision of the University's finances and budgetary processes; conducting institutional performance

evaluations; compliance with the University's statutory and regulatory responsibilities; liaison with external agencies and evaluating the performance of the senior University administrators. The Board met thrice in academic year i.e. March 10, 2015; September 30, 2015 and January 21, 2016.

### **Members of Board of Management**

1. Prof. (Dr.) Sanjay Srivastava, Vice Chancellor
2. Additional Chief Secretary, (Higher Education), Haryana or his Nominee
3. Dr. Amit Bhalla, Vice President, MREI
4. Dr. N.C. Wadhwa, Vice Chancellor, MRIU
5. Sh. Pramit Shanghvi, MD Vrahi Group of Industries, Delhi
6. Sh. Navdeep Chawala, M.D. Psychotropic India Ltd., Faridabad
7. Sh. M.K Miglani, Former VC, KU & HAU (Haryana)
8. Prof. (Dr.) Meenakshi S. Khurana, Dean, Academics
9. Prof. (Dr.) B.M. Bahal, Dean, Applied Science and Research
10. Prof. (Dr.) M.R. Tyagi, Dean, Engineering
11. (Prof.) Dr. Sangeeta Banga, Director/Dean, Students Welfare
12. Dr. Kameshwar Singh, Registrar/Member Secretary

### **Academic council**

The Academic Council, is the principal academic body of the University and shall subject to the provisions of the Act, Statutes, Ordinances of the University, coordinates and exercise general supervision over the academic policies of the University. The Academic Council is responsible for overall matters of educational policy, evaluating and approving all academic degree programs, requirements for admission, honors or degrees granted at the University. During 2015-16, the Council met twice to discuss and approve important Academic matters of the University.



## **Members of Academic Council**

1. Prof. (Dr.) Sanjay Srivastava, Vice Chancellor
2. Prof. (Dr.) V.K. Mahna, Pro- VC
3. Prof. (Dr.) Meenakshi S. Khurana, Dean Academics
4. Prof. (Dr.) M.R. Tyagi, Dean, Engineering
5. Prof. (Dr.) B.M. Behal, Dean, Applied Science & Research
6. Prof (Dr.) S.K. Garg, Pro VC, DTU
7. Mr. P. Panda, President, MUL, Gurgaon
8. Prof (Dr.) R.K. Singh, Professor, Delhi School of Economics, DU
9. Prof. (Dr. ) P.K Bhatnagar, Professor, Dept. of Electronics, DU
10. Dr. S.K. Goyal, Executive Director, Star Wires (I) Ltd., Faridabad
11. Prof. (Dr.) B.D. Phatak, Professor, Mechanical Engineering
12. Ms. Sanjana Malhotra, HOD, ECE
13. Dr. Haider Abbas, HOD, Physics
14. Dr. Megha Mittal, HoD, Chemistry
15. Dr. Deepa Arora, HoD, Mathematics
16. Mr. Jaideep Singh, HoD, Humanities
17. Prof. (Dr.) A. K. Gupta, Professor, Chemistry
18. Prof. (Dr.) S. Duggal, Professor, Management
19. Dr. Nand Kumar, Professor, CSE
20. Dr. D.K. Sharma, Professor, Physics
21. Dr. Charu Pathak, Professor, ECE
22. Ms. Meena Kapahi, Associate Professor,
23. Dr. Y.K. Awasthi, Assistant Professor, ECE
24. Dr. Kameshwar Singh, Registrar /Member Secretary

## **Finance committee**

The Finance Committee is the principal financial body of the University. The main task of this Committee is to take care of the Financial matters of the University. The committee met thrice during year 2015-16 as on March 5, 2015; September 22, 2015 and January 12, 2016.

## **Members of Finance Committee**

1. Prof. (Dr.) Sanjay Srivastava, Vice chancellor
2. Dr. Amit Bhalla, Vice President, MREI
3. Dr. M.M. Kathuria, Trustee, UET
4. Prof. Meenakshi S. Khurana, Dean, Academics
5. Dr. Kameshwar Singh, Registrar
6. Sh. Amit Kumar, FCA
7. Sh. Rajeev Malhotra, Chief Finance & Accounts Officer, Member Secretary

## **Board of Faculties**

The Board of Faculties aim to supervise over the studies and examinations of the University. It is entrusted with the task of coordinating the teaching and research work of the University in the subjects assigned to the Faculty. The BOF recommends to the Academic Council, courses of studies and syllabi for the different examinations and suggest to the Academic Council schemes for the advancement in the standards of teaching and examinations

## **Members of Board of Faculties of Applied Sciences**

1. Prof. (Dr.) B.M. Bahal, Dean, Applied Science & Research
2. Prof. Meenakshi S. Khurana, Dean, Academics
3. Prof. (Dr.) A. K. Gupta, Chemistry
4. Prof. (Dr.) D.K. Sharma, Physics
5. Dr. A.K. Awasthi, Assoc. HOD, Maths
6. Dr. Haider Abbas, HOD, Physics
7. Dr. Megha Mittal, HOD, Chemistry
8. Dr. Deepa Arora, HOD, Maths
9. Dr. S.K. Shukla, Asstt. Prof. Chemistry
10. Mr. Advin Masih, Asstt. Prof. Maths
11. Mr. Jai Praksh, Assoc. HOD, Physics
12. Dr. Arti Kashyap, Assoc. Prof. IIT, MANDI Expt.
13. Dr. D.K. Tuli, Centre Coordinator, DBT-IOC

## **Members of Board of Faculties of Engineering**

1. Prof. (Dr.) M.R. Tyagi, Dean Engineering
2. Prof. (Dr.) Meenakshi S. Khurana, Dean, Academics
3. Ms. Shailee Choudhary, HOD CST
4. Ms. Sanjana Malhotra, HOD, ECE
5. Prof. (Dr.) B.D. Pathak, ME
6. Prof. (Dr.) Nand Kumar, CST
7. Prof. (Dr.) Charu Pathak, ECE
8. Mr. Sachin Lakra, Asso. HOD, CST
9. Dr. Sujata Nayak, Asso. Prof. ME
10. Dr. Y.K. Awasthi, Asso. HOD ECE
11. Dr. Prinima Gupta, Asstt. Prof. CST
12. Dr. Anjana Gosain, Prof. CS, GGSIP, Expt.
13. Dr. Mohd. Nijmud Doja, Prof. CS, Expt.

## **Members of Board of Management and Humanities**

1. Prof. (Dr.) Amit Seth, Dean Management & Humanities
2. Prof. (Dr.) Satinder Duggal, Management
3. Prof. Jaideep Singh, HOD, Humanities
4. Dr. Bindu Agrawal, Asso. HOD, Management
5. Dr. Pooja Kapoor, Asstt. Prof. Management
6. Dr. Meenakshi Saxena, Asstt. Prof. Management
7. Dr. Sudhir Sachdev, Asstt. Prof. Management
8. Prof. Sanjeev Mittal Dean, GGSIP Univ. Expt.
9. Prof. Ramesh Bagla, Amity Business School, Noida, Expt.

## **Women cell**

This cell is set up to develop a gender sensitive and congenial work atmosphere so that women at MRU are not subjected to gender specific discrimination or sexual harassment.

## **Members of Women Cell**

1. Ms. Sangita Banga, Director/Dean, Student Welfare
2. Dr. Sujata Nayak, Asso. Prof. ME
3. Dr. Bindu Agrawal, Asso. HOD Management
4. Dr. Deepa Arora, HOD Maths
5. Dr. Rimpu Malhotra, Asstt. Prof. Chemistry
6. Ms. Ritu Saluja, Asstt. Prof. CST
7. Ms. Priyanka Gupta, Asstt. Prof. CST
8. Ms. Nitika Munjal, Asstt. Prof. ECE
9. Dr.. Ruchi Gupta, Asstt. Prof. Maths
10. Ms. Sukhmeet Kaur, Asstt. Prof. ECE

## **Sexual harassment Committee**

The university aims to provide safe working environment and prohibit any form of sexual harassment. The cell is set up to address any such issues and take necessary actions.

## **Members of Sexual Harassment Committee**

1. Ms. Sangita Banga, Director/Dean, Student Welfare
2. Mr. Sachin Lakra, Asso. HOD, CST
3. Dr. Sujata Nayak, Asso. Prof. ME
4. Ms. Hanu Bharadwaj, Asso. Prof. CST
5. Dr. Bindu Agrawal, Asso. HOD Management
6. Ms. Savita Dutt, Secretary Prakashdeep Trust

## **Anti ragging cell**

Ragging is totally prohibited in Manav Rachna University, inside and / or outside the campus and anyone found guilty of ragging and / or abetting ragging whether actively or passively, or being a part of conspiracy to promote ragging, is liable to be punished in accordance with UGC Regulations 2009 as well as under the provisions of any penal law for the time being in force. MRU ensures that the congenial and welcoming

environment is given to the students. To achieve this objective Anti Ragging cell and Anti Ragging Squad is constituted by the University

### **Members of University Level Anti Ragging Committee**

1. Prof. (Dr.) A. K. Gupta, Proctor
2. Prof. (Dr.) B. D. Pathak, Dean-Examination
3. Prof. (Dr.) Rajat Gera, Professor, Management
4. Prof. (Dr.) B.M. Behal, Dean, Applied Science & Research
5. Prof. (Dr.) D.K. Sharma, Physics Department
6. Ms. Sangeeta Banga, Director/Dean, Student Welfare
7. Ms. Sanjana Malhotra, HOD, ECE
8. Mr. Ajit Katiyar, Asso. HOD, ME
9. Ms. Hanu Bharadwaj, HOD CST
10. Dr. Kameshwar Singh, Registrar
11. Mr. A.K. Mishra, Sports Officer

### **Members of University Level Anti Ragging Squad**

1. Prof. (Dr.) D.K. Sharma, Physics Department
2. Mr. Sachin Lakra, Asso. HOD, CST
3. Dr. A.K. Awasthi, Asso. HOD Maths
4. Dr. Bindu Agrawal, Asso. HOD Management
5. Dr. Sujata Nayak, Asso. Prof. ME
6. Dr. Haider Abbas, HOD Physics
7. Dr. Y.K. Awasthi, Asso. HOD ECE
8. Ms. Meena Kapahi, Asso. Prof. ME
9. Dr. S.K. Shukla, Ist year coordinator
10. Mr. Arun Puri, Dy. Registrar, Admin
11. Mr. A.K. Mishra, Sports Officer

## **Board of Discipline**

This committee ensures that student members of the University behave in a healthy, disciplined and responsible manner. It looks into all complaints and deals with these in accordance with the best academic practices.

### **Members of Board of Discipline**

1. Prof. (Dr.) A. K. Gupta, Proctor
2. Prof. (Dr.) M.R. Tyagi, Dean Engineering
3. Prof. (Dr.) B.M. Behal, Dean, Applied Science & Research
4. Dr. Bindu Agrawal, Asso. HOD Management
5. Head of Concerned Department
6. Mr. Rajesh Tandon, Dy. Registrar, Acad. And Exam.

# ACADEMICS

## ACADEMICS

The Academic year 2015-16 was a transition phase from MRCE to MRU. It was significant year for the University as the multidisciplinary and interdisciplinary structure of the University started taking shape. As the University began with its first year of establishment, it strengthened its academic foundations and added new programs under three different faculties.

### Faculties of the University

1. Faculty of Applied Sciences
2. Faculty of Engineering
3. Faculty of Management and Humanities
4. Faculty of Education

Under the three Faculties, there exist different departments offering Undergraduate; Post Graduate and Doctoral Programs.

### Departments of the University and Programs Offered

**Faculty of Applied Sciences:** Departments under the Faculty are

- a) Department of Chemistry:
- b) Department of Mathematics
- c) Department of Physics.

The Departments offered the B Sc (Hons.) programme. Curriculum development for the Master's program was initiated for offering the program from Academic Session 2016-17.

**Faculty of Engineering:** Departments under the Faculty are

- a) Department of Computer Science and Technology
- b) Department of Electronics and Communication Engineering
- c) Department of Mechanical Engineering

The Departments offered following programs:

- **B. Tech. (4 years):** Computer Science and Engineering, Mechanical Engineering, Electronics & Communication Engineering, Information Technology
- **M. Tech. (2 years ) :** Computer Engineering, Electronics & Communication Engineering, Mechanical Engineering



**Faculty of Management and Humanities:** Departments under the Faculty are

- a) Department of Management and Commerce
- b) Department of Humanities

Faculty of Management and Humanities offered the MBA Programme.

**Doctoral Programme was offered under all the three Faculties.**

The University also established the Faculty of Education to prepare for launch of B Ed and Integrated B Ed programmes. University has applied to the State Govt. and NCT for approval of following courses.

- a) B.Ed. (2 year)
- b) B.Sc. B.Ed. Integrated (4 year)
- c) B.A. B.Ed. Integrated (4 year)

## ADMISSION PROCESS AT MRU

The selection of the candidates for the admission to the UG and PG programmes at MRU is made purely on the basis of the merit. The application for admission has to be submitted online. The candidates are notified the Reference Number for all subsequent correspondence regarding the admission. The candidates can check the merit list from the website and have to report for the physical counselling for admission with all the relevant documents. Admission committee allots the seats to the candidates in order of merit subject to the availability of the seats.

## PROGRAMS, INTAKE, FEE, ELIGIBILITY AND CRITERIA FOR PREPARATION OF MERIT LIST

S. NO.		ELIGIBILITY	FEE (Per Ann)	INTAKE	MERIT CRITERIA		
<b>Bachelor of Technology (Duration – 4 years)</b>					<b>I Preference</b>	<b>II Preference</b>	<b>III Preference</b>
<b>1</b>	<b>B. TECH. CSE</b>	Candidates having passed	1,94,000	180	Merit in	Merit in	Marks

2	<b>B. TECH. - IT</b>	10+2 with 65% aggregate marks with Physics, Mathematics and English	1,94,000	120	consolidated merit list with 60% weight age of JEE (Main) 2015 and 40% weight age of aggregate marks in qualifying examination s.	consolidated merit list with 60% weight age of <b>Uni-GAUGE</b> 2015 and 40% weight age of aggregate marks in qualifying examination s.	in qualifying Examination
3	<b>B. TECH. - ME</b>		1,94,000	180			
4	<b>B. TECH. - ECE</b>		1,94,000	120			
<b>Master of Technology(Duration – 2 years)</b>							
5	<b>M. TECH. - CSE</b>	B. E/B. Tech in Computer Science & Engineering/ Computer Technology/ Information Technology/ MCA or equivalent with minimum 55% marks	1,18,000	18	Merit in valid GATE Score in the relevant stream	Marks in qualifying Degree	
6	<b>M. TECH. - ME</b>	B. E/B. Tech in Mechanical Engineering/Production Engineering/Automobile Engineering/Industrial Engineering/Agriculture Engineering/Aeronautical Engineering/Marine Engineering/ Mining and Metallurgy or equivalent with minimum 55% marks	1,18,000	18			
7	<b>M. TECH. ECE</b>	B. E/B. Tech. in Electronics & Communication/Electronics & Instrumentation/Electronics Engineering/Electronics Instrumentation & Control/ Instrumentation & Control/Electrical Instrumentation & Control/Instrumentation Engineering/Control Engineering/Electronics Engineering or equivalent/M. Sc Physics/M. Sc Electronics with minimum 55% marks	1,18,000	18			
<b>Master of Business Administration(Duration –2 years)</b>							

8	<b>MBA</b>	Bachelor's degree in any discipline from a recognised university or equivalent with minimum 55% or PASS in the final examination conducted by the Institute of Chartered Accountant of India/Institute of Costs and Works Accountants of India/Institute of Company Secretaries of India	2,59,000	60	Merit in CAT/MAT/XAT	Merit in Qualifying Degree, followed by Group Discussion and/or Personal Interview	
<b>Bachelor of Sciences (Hons.) Duration - 3 years</b>							
9	<b>B.Sc. (Hons.) Chemistry</b>	Candidates having passed 10+2 examination from any recognised board with 50% or more marks in aggregate of three science subjects Physics, Chemistry, Mathematics/Bio along with English	98,000	40			
10	<b>B.Sc. (Hons.) Physics</b>	Candidates having passed 10+2 examination from any recognised board with 50% or more marks in aggregate of three science subjects Physics, Chemistry, Mathematics along with English	98,000	40			
11	<b>B.Sc. (Hons.) Mathematics</b>	Candidates having passed 10+2 examination from any recognised board with 50% or more marks in aggregate of three science subjects Physics, Chemistry, Mathematics along with English	98,000	40			

## RESERVATION OF SEATS

Manav Rachna University presently follows the reservation policy as under:

- NRI/Foreign National/PIO seats: 15% in all programmes/courses.
- General Seats: 85% (25% seats are reserved for Haryana domicile students, of which 10% seats are for the SC candidates of Haryana).

## ADMISSION PROCEDURE FOR NRI/PIO/ FOREIGN NATIONALSTUDENTS

The NRI/PIO/Foreign National Students are eligible to take admission in various programs at MRU listed above. The Fee Structure for them is as below

Nameof theCourses	Fee Payable By NRI /PIO/Foreign Students	Remarks
B. Tech. programs	US\$ 5800 PER ANNUM	In case, fees are paid in Indian Rupees, the conversion rate shall be taken from the RBI Website for the Buying Category for the same/previous day with additional 1% Processing/Facilitation Charges.
MBA	US\$ 5800 PER ANNUM	
M. Tech.Programs	US\$ 4300 PER ANNUM	

## NUMBER OF SEATS FILLED UNDER VARIOUS PROGRAMS

PROGRAMS	SEATS FILLED
B.Tech (CSE)	108
B.Tech (ME)	33
B.Tech (ECE)	08
B.Sc. (H) Chemistry	05
B.Sc. (H) Maths	05
M.Tech (ECE)	01
M.Tech (ME)	03
M.B.A	12
Ph.D.	47

## DOCTORAL PROGRAM

MRU's first batch of PhD Program commenced from Jan 16, 2016 with Prof. B.M. Bahal, Dean Research, PhD Program Leaders Dr. Megha Mittal & Dr. Vikas Thakur and 47 Research Scholars.

Advertisement for the selection of candidates against a total number of 105 vacant seats was published on November 17, 2015 and later also on December 31, 2015 in the leading news papers.

Applications were received in all the faculties viz. Faculty of Applied Sciences, Faculty of Engineering and Faculty of Management & Humanities. Later, two entrance tests were conducted on Dec 18, 2015 and Jan 11, 2016, for all the applicants. Shortlisted candidates were called for interviews by different faculties on Dec 18, 19 & 21, 2015 and Jan 11, 2016. Out of all received applications 47 research scholars with following break up were selected: 23 in Faculty of Management & Humanities, 23 in Faculty of Engineering, and 01 in Faculty of Applied Sciences.

### PhD Program- Fee Break Up

#### Full Time Research Scholar

Registration Fee (one time)-           INR 25000

Course Work Fee (onetime)-           INR 25000

Research Fee (per semester) –       INR 25000 (INR 50000 Per Annum)

Thesis Evaluation Fee (one-time INR 25000 to be paid at the time of submission of Thesis)

#### NRI/PIO/Foreign National

Course Fee – US \$ 500

Research Fee (Annual) – US \$ 1500 (Payable on semester basis@ US \$ 750)

Thesis Evaluation Fee (one time) – US \$ 500

## **COURSE WORK**

Orientation and Registration for the first semester was held on Jan 16, 2016. The coursework classes commenced from January 23, 2016. Scholars registered for two compulsory courses. Examination scheme for both the course was same with each carrying 200 marks (120 marks for formal evaluation and 80 marks for informal evaluation). The details of both the courses are provided hereunder:

- **Research Methodology: 4 Credits course. Taught by Prof. B.S. Nagi.**  
**Prof. Nagi** has over 40 years of research experience. He is the Former Director of Research, Council for Social Development and has guided more than 1000 scholars in their research. Former IPS officer and Puducherry Lieutenant Governor Dr. Kiran Bedi, is amongst one of his research scholars.
- **Quantitative Techniques: 4 Credits Course. Taught by Prof. C.S. Sharma.**  
**Prof. Sharma** is a well known academician with a teaching and research experience spanning 30 years at the prestigious Shri Ram College of Commerce, University of Delhi. He has published a number of research papers and conducted large number of training in the area of finance.

For the successful completion of coursework scoring 75% attendance was mandatory for scholars.

## **CENTRES/SUPPORTING WINGS AT MRU**

- a) **Corporate Resource Centre (CRC):** A unit of Manav Rachna Educational Institutions (MREI), CRC engages with the industry and constantly strives for expanding the industry-academia interface. CRC keeps close and regular interaction with the leading recruiters, regarding the knowledge and skills requirements of the industry and advises the faculties/ Departments of MRU to incorporate them to make our students more industry ready and job ready.
- b) **Career Development Center (CDC):** A unit of Manav Rachna Educational Institutions (MREI), CDC provides extensive process oriented and activity driven training on Personality Development, Business English, Business Communication and Quantitative Aptitude and Logical Reasoning. These trainings are delivered in two configurations i.e. as part of regular curriculum and Comprehensive Capsules.
- c) **Manav Rachna Center of Foreign Languages (MRCFL):** Manav Rachna University offers Foreign Language as a compulsory course in all Undergraduate Programmes. MRCFL a unit of MREI , is entrusted with the task of developing the curriculum and delivering the courses. In the year 2015-16 following languages were offered to B Tech, B Sc and MBA students:
1. French
  2. German
  3. Spanish.
- d) **Manav Rachna Innovation and Incubation Centre (MRIIC):** A unit of MREI, MRIIC is a centre for promoting the innovative ideas and incubating them. The Centre through its various activities encourages both engineering and non-engineering students across various departments to develop innovative and creative business ideas which in the subsequent stages are incubated to convert into successful enterprises. The Centre is instrumental in coordinating

entrepreneurial education so that they develop necessary background to take up viable and feasible start-up ventures. The Centre regularly organizes business plan competitions through which meritorious projects are identified and selected for direct support.

**e) Sukam Centre for Smart Energy:**

Manav Rachna University has Environment and Sustainable Development as its mission statement. Educating the graduates about the same is an integral part of all curriculum. To enrich the learning experience of its stakeholders a ‘Centre for Smart Solar Energy’ has been established in collaboration with SUKAM. The centre provides “in field” exposure to both faculty members and students of the latest developments in the field of solar energy and its commercial applications in the area of energy generation, storage and deployment. It conducts various advanced trainings for professional working in the area.

**Scholarships & freeships to students**

MRU offers scholarships to students under two categories

**Meritorious student’s scholarship:**

MRU aimed at promoting meritorious students, scholarship includes tuition fee waiver and is awarded to the students of UG /PG Programmes) on the basis of marks/CGPA in the qualifying examination as per following scale; however the students are required to pay other fees as applicable to the programme concerned.

**UG Programmes (B.Tech. /B. Sc. (Hons.)/BBA/B. Ed./B.A. B.Ed. /B.Sc. B.Ed.)**

90.00% & above	100% Tuition Fee waiver
85.00% above but below 90.00%	50% Tuition Fee waiver
80.00% above but below 85.00%	25% Tuition waiver



### **PG Programmes (M.Tech. /MBA & M.Sc.)**

80.00% & above	100% Tuition Fee waiver
75.00% above but below 80.00%	50% Tuition Fee waiver
70.00% above but below 75.00%	25% Tuition waiver

### **Merit cum Means Scholarship**

MRU offers Scholarship based on merit cum means, to the candidates admitted under reservation for Haryana Candidates. Scheme shall be applicable to all Undergraduate and Post Graduate Programs. The Scheme is applicable to all students whose parents have annual income up to Rs. 2.80 Lac from all sources. Under the scheme, the students shall be given fee waiver limited to the tuition fee as per the following scale. Candidates are required to pay other fee as applicable to the programme concerned.

- One fifth of the twenty five percent shall be granted full tuition fee concession;
- Two fifth of the twenty five percent shall be granted fifty percent fee concession;
- The balance two fifth of the twenty five percent shall be granted twenty five percent fee concession.

### **Scholarship and Freeships provided to students under two categories (For Details Refer Annexure-I)**

<b>Category</b>	<b>JUL 14 TO JUN 15</b>	<b>JULY 15 TO JUNE 16</b>
CONCESSIONS	656400	1286265
TUITION FEE WAIVER	5754000	4091250
<b>TOTAL</b>	<b>6410400</b>	<b>5377515</b>

Figures are in INR

## RESULTS AND MERIT LIST

### MRU Result Analysis First Semester (January 2016)

DIVISIONS	CGPA	%AGE OF STUDENTS					
		PROGRAM: MBA	B.SC (HONOURS)	B.TECH- ME	B.TECH- ECE	B.TECH- CSE	M.TECH- ME
<b>TOTAL NO. OF STUDENTS</b>		<b>12</b>	<b>10</b>	<b>33</b>	<b>8</b>	<b>108</b>	<b>3</b>
DISTINCTION ≥75%	≥7.5	58.3	60.0	45.5	37.5	24.1	100.0
FIRST DIVISION	6.0- 7.49	25.0	10.0	30.3	37.5	47.2	0.0
SECOND DIVISION	5.0- 5.9	0.0	10.0	3.0	12.5	10.2	0.0
THIRD DIVISION	4.0- 4.9	8.3	10.0	9.1	0.0	5.6	0.0
<40%	<3.9	8.3	10.0	12.1	12.5	13.0	0.0

## RESULT ANALYSIS SECOND SEM (JUNE 2016)

DIVISIONS	SGPA	CGPA	%AGE OF STUDENTS													
			PROGRAM : MBA		B.SC (HONOURS) CHEMISTRY		B.SC (HONOURS) MATHEMATICS		B.TECH-ME		B.TECH-ECE		B.TECH-CSE		M.TECH-ME	
TOTAL NO. OF STUDENTS			12		5		5		32		8		103		3	
			SGPA	CGPA	SGPA	CGPA	SGPA	CGPA	SGPA	CGPA	SGPA	CGPA	SGPA	CGPA	SGPA	CGPA
DISTINCTION >=75%	>=7.5	>=7.5	4	5	3	3	4	4	12	12	2	2	39	32	2	2
FIRST DIVISION	6.0-7.49	6.0-7.49	5	4	1	0	0	0	9	9	2	4	18	30	1	1
SECOND DIVISION	5.0-5.99	5.0-5.99	0	0	1	1	1	0	2	5	3	0	15	17	0	0
THIRD DIVISION	4.0 - 4.99	4.0 - 4.99	1	1	0	1	0	1	2	0	1	2	11	10	0	0
<40%	<4.0	<4.0	2	2	0	0	0	0	7	6	0	0	20	14	0	0

### List Of Toppers Of MRU Students In First Semester

S.NO	PROGRAM	ROLL NO.	NAME OF STUDENT	SGPA
1	B.SC (CHEM)	2K15CHUN01004	PRIYANKA TEWATIA	10
2	B.SC (MATHS)	2K15MAUN01005	PUNEET GULATI	9.5
3	B.TECH CSE	2K15CSUN01032	YASHESH DAGAR	8.88
4	B.TECH ME	2K15MEUN01015	KARAN SEHGAL	9.63
5	B.TECH ECE	2K15ECUN01004	RAGHAV RUSTOGI	8.33
6	M.TECH ME	2K15MEPN01003	TUSHAR GUPTA	9.38
7	MBA	2K15MCPN01011	VIBHUTI MITTAL	8.78

## List Of Toppers Of MRU Students In Second Semester

1	B.SC (CHEM)	2K15CHUN01004	PRIYANKA TEWATIA	9.83
2	B.SC (MATHS)	2K15MAUN01005	PUNEET GULATI	9.46
3	B.TECH CSE	2K15CSUN01005	ANKIT DAHIYA	9.92
4	B.TECH ME	2K15MEUN01028	SHIVAM BANSAL	9.92
5	B.TECH ECE	2K15ECUN01004	RAGHAV RUSTOGI	8.38
6	M.TECH ME	2K15MEPN01003	TUSHAR GUPTA	9.79
7	MBA	2K15MCPN01011	VIBHUTI MITTAL	9.88

## MDU RANK HOLDERS MAY-2015

We are proud to share our rank holders who are registered with MDU

### Department Of Computer Science & Technology

<b>B.Tech- CSE 2nd Semester</b>				
<b>S.NO.</b>	<b>NAME OF STUDENT</b>	<b>MARKS</b>	<b>%AGE</b>	<b>RANK</b>
1	NILANJAN BHADURY	1023/1150	88.96	1
2	PRATEEK GULERIA	995/1150	86.52	2
3	SHIVAM GUPTA	949/1150	82.52	14
4	SOMESH VERMA	949/1150	82.52	14
5	AKANSHA AHUJA	949/1150	82.52	14
6	ARUSHI SHARMA	948/1150	82.43	15
7	HARSHIT SHARMA	947/1150	82.35	16
8	AAKASH SHARMA	932/1150	81.04	24
9	AKANSHA ARYA	924/1150	80.35	30
10	ARUP KUMAR GUPTA	920/1150	80	33
11	HARITIKA CHOPRA	918/1150	79.83	35
12	NAMIT JAIN	913/1150	79.39	39
<b>B. Tech- CSE 4th Semester</b>				
1	KIRTI VIG	931/1150	80.96	44
2	SHUBHI GOEL	926/1150	80.52	48
3	PRIYANKA GUPTA	926/1150	80.52	48
4	THANGJAM BINDESORI DEVI	925/1150	80.43	49
5	MAHAK LAMBA	924/1150	80.35	50
<b>B. Tech- CSE 6th Semester</b>				
1	RUCHIKA MANGLA	967/1150	84.09	23
2	SAKSHI MAKKAR	962/1150	83.65	27
3	GUNJAN ARORA	950/1150	82.61	38
4	ANUSUYA HAZRA	943/1150	82	45
5	KIRTI SENGAR	940/1150	81.74	48

<b>B. Tech- CSE 8th Semester</b>				
1	SONALI	6861/8375	81	27
24	KAJAL MATHUR	6778/8375	80	38
25	GUNJAN CHANANA	6744/8375	80	46
<b>B.TECH IT- 2<sup>nd</sup> semester</b>				
<b>S.NO.</b>	<b>NAME OF STUDENT</b>	<b>MARKS</b>	<b>%AGE</b>	<b>RANK</b>
1	NISHU GOEL	942/1150	81.91	19
2	SARTHAK SHARMA	920/1150	80	33
3	SAKSHI NAUTIYAL	917/1150	79.74	36
<b>4th Semester</b>				
1	RITU BHALLA	916/1150	79.65	1
2	ANJALI GARG	902/1150	78.43	2
3	SHRISHTI KALRA	892/1150	77.57	3
4	AKASH VIJ	889/1150	77.3	4
5	NIHARIKA KALIA	884/1150	76.87	5
6	SMRITI	877/1150	76.26	7
7	NAKUL SHARMA	875/1150	76.09	8
8	DISHA MATHUR	836/1150	72.7	13
9	ADITYA MATHUR	829/1150	72.09	14
10	RAHUL DOCHAK	820/1150	71.3	16
11	PRASHANT SHARMA	818/1150	71.13	18
12	MOHIT PRATAP SINGH	809/1150	70.35	20
13	AKASH BANSAL	799/1150	69.48	23
14	SURBHI YADAV	797/1150	69.3	24
15	MEGHALI	795/1150	69.13	26
16	SHREYA CHHABRA	794/1150	69.04	27
17	YATHARTH SHARMA	791/1150	68.78	28
18	DIVYA SAPRA	788/1150	68.52	30
19	SHUBHAM GROVER	780/1150	67.83	33

20	KARTIK GARG	777/1150	67.57	34
21	DHRUV SALUJA	772/1150	67.13	36
22	SIDDARTH PAWAR	768/1150	66.78	38
23	RICHA AGGARWAL	764/1150	66.43	40
24	BHAWNA SHARMA	760/1150	66.09	43
25	PRIYA SINGH	756/1150	65.74	44
26	DIVYANSHU VARSHNEY	753/1150	65.48	47
27	MAGAN SACHDEVA	748/1150	65.04	49

**6th Semester**

1	VERTIKA GUPTA	968/1150	84.17	1
2	GARIMA MANGLA	965/1150	83.91	2
3	DIKSHA KHURANA	951/1150	82.7	4
4	MEGHA	944/1150	82.09	5
5	SIMRITI MADAAN	936/1150	81.39	7
6	INJILA SIRAJ	935/1150	81.3	8
7	VINI CHARAYA	933/1150	81.13	9
8	LAKSHAY KHURANA	932/1150	81.04	10
9	JONY LUTHRA	904/1150	78.61	15
10	SHIKHA WADHWANI	899/1150	78.17	17
11	TAPSYA JAGLAN	893/1150	77.65	18
12	POOJA RAWAT	885/1150	76.96	21
13	LEENA SAHOO	883/1150	76.78	22
14	MAYANK UNIYAL	880/1150	76.52	25
15	PRAGYA LUHANIWAL	863/1150	75.04	31
16	NIKHIL JOSHI	861/1150	74.87	32
17	JATIN BAJPAI	850/1150	73.91	37

18	NIHARIKA KALRA	848/1150	73.74	39
19	NIKITA GUPTA	845/1150	73.48	40
20	ASHISH KAPIL	840/1150	73.04	43
21	UJWAL RAINA	827/1150	71.91	50

#### 8th Semester

1	RICHIL PAHUJA	6423/8375	76	31
2	JYOTI SOROUT	6418/8375	76	32
3	KOMAL CHHABRA	6387/8375	76	38
4	MEGHA KAKKAR	6282/8375	75	45

#### M.TECH CSE - 2nd Semester

S.NO.	NAME OF STUDENT	MARKS	%AGE	RANK
1	SAMIKHSHA AGGARWAL	702/850	82.59	20
2	ANAMIKA MADAAN	670/850	78.82	48
3	DEEPIKA ADLAKHA	669/850	78.71	49

#### M.TECH CSE - 4th Semester

4	DIMPLE CHEHAL	2481/3050	81	21

## Department of Electronics & Communication Engineering

#### B.Tech. ECE - 4th Semester

S.NO.	NAME OF STUDENT	MARKS	%AGE	RANK
1	ASHNA SAXENA	910/1150	79.13	23

#### 6th Semester

1	PARNIKA GUPTA	879/1100	79.91	38
2	ROHAN SEHGAL	864/1100	78.55	50

#### 8th Semester



1	ABHISHEK JAIN	6774/8275	81	15
2	PRIYANKA MANGLA	6611/8275	79	41

**M.TECH ECE - 2nd Semester**

1	GITIKA GUPTA	756/950	79.58	12
2	KANIKA TAYAL	754/950	79.37	13
3	SURABHI SHARMA	733/950	77.16	27

**Department of Mechanical Engineering**

**B.Tech. ME - 2nd Semester**

S.NO.	NAME OF STUDENT	MARKS	%AGE	RANK
1	NIKHIL ARORA	974/1175	82.89	31

**4th Semester**

1	ROHIT GOYAL	943/1150	82	5
2	ROHIT DAHIYA	902/1150	78.43	29
3	ANUJ MISHRA	889/1150	77.3	37
4	LAKSHAY SHARMA	886/1150	77.04	40
5	DEEPAK KUMAR	881/1150	76.61	45
6	SACHIN	877/1150	76.26	48

**8th Semester**

1	ANKIT GOEL	6938/8375	82	4
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**M.TECH ME**

1	LOVISH	649/850	76.35	8
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## EMPLOYABILITY ENHANCEMENT PROGRAMS

### Summer Trainings

Training is teaching, or developing in oneself or others, any skills and knowledge that relate to specific useful competencies. Training has specific goals of improving one's capability, capacity, productivity and performance. It forms the core of apprenticeships and provides the backbone of content at institutes of technology.

### Summer Training Calendar

Event	Date
Incorporating changes in Constitution of Faculty Coordinator Body	23 <sup>rd</sup> Jan 2015 (Friday)
Faculty Coordinators' Meeting	5 <sup>th</sup> Feb 2015 (Thursday)
Computer Lab Requirement for Summer Training-2015	12 <sup>th</sup> Feb 2015 (Thursday)
Next Faculty Coordinators' Meeting	25 <sup>th</sup> Feb 2015 (Wednesday)
Finalize the Training Programme	24 <sup>th</sup> March 2015 (Tuesday)
Budget Finalization	2 <sup>nd</sup> April 2015 (Thursday)
Day Sheet Finalization of Summer Training	10 <sup>th</sup> April 2015 (Friday)
Next Faculty Coordinators' Meeting	28 <sup>th</sup> April 2015 (Tuesday)
Issue of Circular Regarding Code of conduct of Training	15 <sup>th</sup> May 2015 (Friday)
Commencement of Training	2 days after semester wise completion of University Examination.
Intermediate review of the progress of the Training	As per requirement
Update the existing Feedback system	22 <sup>nd</sup> May 2015 (Friday)
Summer Training Feedback	After completion of Training
Other Training Schedule (Tentative)	As per constraint

## SUMMER TRAINING MODULES

### CSE and IT Department

#### 2-Semester (B.Tech)

SKILL TYPE	FOCUS AREAS	SCOPE
Skills Enhancement	Programming Skills Enhancement	Bridge b/w FCPC & File Handling
Project Development	C - File handling based	Real-World Problem Solution
Personality Development	Group Discussion & Extempore	Overall Technical Expertise, Knowledge about Current Technologies
Skills Enhancement	Survey on Technology Based Topics	Google Docs

#### 4-Semester (B.Tech)

SKILL TYPE	FOCUS AREAS	SCOPE
Skills Enhancement	C++ - Programming Skills Enhancement	Bridge b/w OOPS and File Handling
Project Development	C++ - File Handling Based Project Database Design Case Study, Open Modelsphere	Real-World Problem Solution
Advanced Technologies	PHP	Open Source Application Development
Advanced Technologies	Android	Mobile App Development
Soft Skill	Infosys Campus Connect Module	Team Building,

#### 6-Semester (B.Tech)

SKILL TYPE	FOCUS AREAS	SCOPE
Project Development	ICC Modules - Self/Teaching Mode	Imparting necessary knowledge and skills to take up challenges of a project environment
Advanced Technologies	ICC Modules - Lab	
Project Development	Dot Net Project	Hands-on New Technology
Placement Oriented	TCS Based Module Training	CDC

## 2-Semester (M.Tech-CSE)

SKILL TYPE	FOCUS AREAS	SCOPE
Advanced Technologies	Database Design Case Study, Open Model Sphere	Hands-on Advanced Technologies
	Agile Technology	
	Network Simulator 3	
Personality Development	Pedagogical Skills	Curriculum Based
Skills Enhancement	Workshop on Writing Research Papers	Research Oriented
Placement Oriented	TCS Based Module Training	CDC

## ECE Department

### 2-Semester (B.Tech)

SKILL TYPE	FOCUS AREAS	SCOPE
Skill Enhancement	MATLAB	Real World Problem Solution
Project Development	Analog and Digital Electronics based Projects: 1) Anti Bag Snatching Alarm 2) Siren Generator 3) Fire Alarm 4) Class Room Mic 5) Portable Mobile Charger 6) Sound operated LED	Hands on experience on designing the projects using various electronic components

### 4-Semester (B.Tech)

SKILL TYPE	FOCUS AREAS	SCOPE
Project Development	Analog Projects	Hands on new technology
Project Development	8051 Projects	Technological enhancement
Advanced Technology	VLSI circuit design using tanner	Technological enhancement
	ICCM	

### 6-Semester (B.Tech)

SKILL TYPE	FOCUS AREAS	SCOPE
PROJECT DEVELOPMENT	PLC+IMAGE PROCESSING	Hands on New Technology
PLACEMENT ORIENTED	TCS	CDC

## 2-Semester (M.Tech)

SKILL TYPE	FOCUS AREAS	SCOPE
ADVANCED TECHNOLOGY	VHDL	Technological Enhancement
ADVANCED TECHNOLOGY	METAMATERIALS	Technological Enhancement
PLACEMENT ORIENTED	PEDAGOGICAL SKILLS	Academic Capability Enhancement
	TCS	CDC

## ME Department

### 2-Semester (B.Tech)

SKILL TYPE	FOCUS AREAS	SCOPE
Workshop	Conventional Manufacturing	Process Sheet of a Component and Product
Aptitude	Analytical Reasoning	Paper Solving
2D Software	AutoCAD	Engineering Drawing

### 4-Semester (B.Tech)

SKILL TYPE	FOCUS AREAS	SCOPE
3D Software	Pro/E	3D Design of Mechanical Components
CNC	Part Programming	Program development and execution
Soft Skill	Infosys Campus Connect Module	Soft Skill Enhancement
Workshop	Conventional Manufacturing	Process Sheet of a Component and Product

### 6-Semester (B.Tech)

SKILL TYPE	FOCUS AREAS	SCOPE
Virtual Analysis	FEM	Problem solving of Strength of Material
3D Software	CATIA	Sketcher and Part Design Module
Technical Concept	Core Subjects	Revision of Technical Concept By Paper Solving
Placement Oriented	TCS Module	Aptitude Enhancement by Paper Solving

### 2-Semester (M.Tech)

SKILL TYPE	FOCUS AREAS	SCOPE
FEM	Virtual Analysis	Problem solving of Strength of Material
Personality Development	Pedagogical Skills	Curriculum Based
Placement Oriented	TCS Module	Aptitude Enhancement by paper solving

## Industrial Visits

It is rightly said that “**See & Know**” is better than “**Read & Learn**”. Student got an excellent opportunity to know and understand processes of various manufacturing operation, during their Industrial visits and trainings. Students of Engineering and Management programs visited various Industries and completed their summer trainings to correlate various facts and process they learn during classroom sessions.

The companies and industries visited are Honda Cars India Ltd., Shriram Pistons & Rings Ltd., Asian Hospital, NHPC Ltd, Natioanl Fertilizers Ltd, Kwality Ltd, ILPEA Paramount Ltd, Grand Imperial, Fortis Hospital/Jacob CES. SRS Ltd., AIRCEL, M3M, Universal Rubber Works, Indian Oil Corp. Ltd., PICL India, Jasper Pharma, Sai Technologies, Fortis Hospital, SPS International Ltd, Escorts Agri Machinery, Elofic Industries Ltd., JBM Industries Ltd., JCB India Ltd., Larsen & Toubro.



**Figure: Visit to Honda Cars India Ltd. by Mechanical Engineering Students**

## Industry Interface

S.No.	Date of Lecture	Name of Speaker	Organization	Designation
1	28th Aug '15	Dr. Kamal Singh	NHRDN	Director General
2	11th Sep '15	Mr. Sameer Talwar	Snapdeal	Senior Director
3	17th Sep'15	Mr. Sanjay Goyal	SIDBI	General Manager
4	23rd Sep '15	Anil Kasyap	Conventry University, England	Deputy of Head, School of Energy
5	16th Oct '15	Mr. Kamaljit Singh	Bestech India Pvt. Ltd.	Senior Vice President
6	28th Oct'15	Ms. Taran Deep	Paras Buildtech	General Manager
7	4th Nov'15	Ms. Dashmeet Kaur (alumni)	Rankwatch	Web Content Specialist
8	19th Nov'15	Mr. Arpan Anand	Supertech	Vice President
9	31st March, 2016	Ms Christine Sharma	Narrow Casters Ltd	CEO
10	2nd April, 16	Justice Rajiv S Endlaw Justice Ravindra Bhatt	Justice Delhi High Court	Justice
11	14th April, 2016	Mr Deepak Shetty	Moser Baer Ltd	Chief Marketing Officer
12	29th April, 16	Mr Kishore Jayaraman	Rolls Royace Ltd	President India & South Asia

## Guest Lectures Organized at Various Departments

S.No.	Name	Name of Company	Designation	Date of Lecture
1	Narender Bhardwaj	Kapline	Director of product delivery	03/08/2015
2	Rohit Srivastava	Cyber Security Integrators	Chief operating Officer	09/04/2015
3	Rohit Srivastava	Cyber Security Integrators	Chief operating Officer	10/04/2015

4	Bhairav Chandra	IIT DELHI	Virtual Lab Expert	28/04/2015
5	Sanjeev Soni	IIT DELHI	Virtual Lab Expert	28/04/2015
6	Tanmay Das	IIT DELHI	Outreach Incharge	28/04/2015
7	Suket Sachdeva	Ehangcom Technologies Co., Ltd.	Techno-Commercial VAS manager	08/03/2016
8	Divya Chugh	Sapient Corporations	Senior Associate Technology	04/04/2016
9	Vivek Singh	Eduvantage Pvt. Ltd., New Delhi	CEO	21/03/2016
10	Rajeev Tiwari	Tevatron Technologies, Noida	Director	04/07/2016
11	Gyanendra	GE Energy Connection, Noida	Tendering Engineer	04/08/2016
12	Megha Aggarwal	Deloitte Consulting	Senior consultant	04/08/2016
13	Ankit Bhugra	Greenage India Ltd	Director (Technical)	15/09/2015
14	Neeraj Kumar Srivastava	Escorts Ltd. Faridabad	Manager	11/03/2016
15	Sameer Divekar	DB HMS Noida	Executive Director	01/04/2016
16	Sandeep Singer	Eicher Ltd. GGN	General Manager	19/04/2016
17	Samsher Singh Cheema	Maruti Suzuki Ltd. GGN	General Manager-Purchase	22/04/2016
18	Mohit Jhangiani	DB HMS NOIDA	Marketing Executive	12/04/2016
19	Rohin Anand	Trumpf India Pvt. Ltd	Assistant Sales Manager	20/04/2016
20	Mr. Vaibhav Taneja	TCS	Assistant system Engineer	20/07/2016



## EVENTS ORGANIZED AT MRU

In order to complement the university's academic curriculum and to augment the students' all round development, a wide and diversified range of programmes were organized.

### **Solar Radiations: Green Option for Energy**

The Mechanical Engineering Department conducted a FDP on 'Solar radiation: Green options for Energy' from 11<sup>th</sup> May to 23<sup>rd</sup> May, 2015 under the FDP programme of AICTE. The program was an endeavour to provide a platform for faculty to interact with renowned experts in the field of Solar Energy. The program was a comprehensive mix of classroom sessions, on site visits, simulation exercises and experimental studies of various solar operated equipment and attended by fifty faculty members from all around the country.

### **National Conference on "Emerging Trends and Innovations in Electronics and Telecommunication Engineering.**

Department of Electronics & Communication Engineering organized its first National Conference on 'Emerging Trends and Innovations in Electronics and Telecommunication Engineering (ETIETE-2016), technically co-sponsored by Institute of Electronics and Telecommunication Engineers (IETE) and Indraprastha Institute of Information Technology (IIIT, Delhi).

Some of the key topics of interest at the Conference were 'Wireless Sensor Network', 'Mobile Communication', 'Optical Communication', 'Nanotechnology', 'Image and Speech processing', 'VLSI System design', 'Embedded Systems', 'Digital and Analog Circuit Design' and the like. Dr Manpreet Singh (Director AICTE) was the Chief Guest for the conference Inaugural.

## International Conference on Green Initiatives in Science and Technology

A one day International Conference on 'Green Initiatives in Science and Technology' was organized by the Department of Chemistry, on 15<sup>th</sup> January, 2015, in association with GCNC(New Delhi) and ISST (Ghaziabad) and sponsored by Royal Society of Chemistry, London, North India Section and Indian oil R&D, Faridabad. More than 100 delegates from different Universities, IITs, MNITs of India and abroad attended the conference.

Dr. Avtar Matharu (Dy. Director, Green Chemistry Centre of excellence, University of York, U.K.), inaugurated the Green Chemistry Network Centre, MR Campus chapter and delivered his Plenary Lecture. The valedictory function was presided by Dr. Tuli, (Executive Director and centre coordinator, DBT-IOC - Centre for Advanced Bio-energy Research).

## RSC Workshop on 'Chemistry for Tomorrow's World'

An International RSC Workshop on 'Chemistry for Tomorrow's World' was organized during December 2-3, 2015 at Hotel Maidens, New Delhi. The workshop was jointly organized by Green Chemistry Network Centre (GCNC), Delhi University, Manav Rachna University, Faridabad and Shiv Nadar University, Greater Noida. The workshop was sponsored by Indian Oil R&D Centre, Faridabad and Royal Society of Chemistry, London.

In the workshop, there were 14 lectures from eminent experts invited from University of York, UK, Green Chemistry Institute, USA, IITs, Panjab University, IOCL R&D, NIPER Mohali & Hyderabad, Shiv Nadar University, DRDO, Delhi University and CDRI, Lucknow. 22 oral papers were presented in **5 Technical Sessions** viz. "Green Chemistry, Energy & Suitability, Medicinal Chemistry, and Organic Synthesis & Green Chemistry Suitability". There were poster presentations on both the days and **39 posters** were displayed.

Prof. R.C. Mehrotra Memorial Lecture was delivered by **Prof. Ashutosh Sharma (Secretary Department of Science & Technology, New Delhi)**, on “Delights of Doing Research: Some Personal Lessons from Translational Sciences”, where he stressed on the power of lateral thinking and scientific creativity in solving scientific problems

### **National Seminar on Climate Change and Disaster Management**

National Seminar on ‘Climate Change and Disaster Management’ was organized by Manav Rachna Educational Institutions (MREI) in collaboration with the Centre for the Study of Administration of Relief (CSAR) on 18<sup>th</sup> June, 2016 at MR campus. The seminar saw the participation of approximately 100 participants from MR and other reputed institutes like YMCA, LIONS club etc. The lecture sessions began with the theme presentation on “Climate Change & Disaster Management” made by Dr. Harjit S. Anand (Chairman, CSAR and former Secretary, Govt. of India). The keynote address was delivered by Dr. Kamal Kishore (NDMA). Hon’ble Justice (Dr.) Arijit Pasayat, Judge of the Supreme Court of India (Retd.), gave his kind consent to be the Chief Guest and graced the occasion. He discussed about the preventive aspects of the Disaster Management, in his presidential address.



**International Conference on Green Initiatives in Science and Technology (January 15, 2015)**



**RSC Workshop on 'Chemistry for Tomorrow's World' (Dec 2-3, 2015)**



**National Seminar on Climate Change and Disaster Management (June 18, 2016)**

# **INTERNAL QUALITY ASSURANCE CELL (IQAC)**

## INTERNAL QUALITY ASSURANCE CELL (IQAC)

Based on the guidelines of National Assessment and Accreditation council, Manav Rachna University has constituted an Internal Quality Assurance Cell. The IQAC strives to bring quality in a person through education at different stages. Starting from defining the admission criteria to the placement of students, IQAC aims to bring quality improvements. The choice based credit system offers a flexible curriculum to the students. The curriculum is designed so as to meet the industry needs. At various stages IQAC keeps a check on results, feedbacks from students and parents so that a necessary action can be taken to work on the weaker areas. IQAC organizes workshops, seminars etc for updating the knowledge of faculty members. IQAC ensures discipline through a Proctoral committee and Women Cell.

In Academic Session 2015-16, various initiatives were taken for the quality improvement. The committee was reconstituted in April 2016.

**The IQAC applied for All India Times i3RC Engineering Institutes Ranking Survey, 2016 and scored 29th Rank amongst all engineering institutes including IITs and NITs and maintained 10th rank amongst all private engineering institutes.**

### Activities held during April 2015 - March 2016:

SNo.	Activity	Facilitator / Speaker	Dates	No. of participants
1	Training Need Analysis	Prof. S.K.Bedi/ Prof. Jaideep Singh/ Col.V.K.Gaur	20th March - 8th May, 2015	126
2	Faculty Development Program on Solar Radiations: Green options for Energy (Sponsored by AICTE )	Dr. Sujata Nayak- Coordinator	11-23 May 2015	50

3	Faculty Induction Program	Prof.Sanjay Srivastava/ Prof.Jaideep Singh/ Prof. Naresh Grover	2-3 July 2015	19
4	Orientation Program on Accessing Digital Library 24x7	Vikram Sharma	22nd Dec, 2016	120
5	Workshop on Research Methodology	Prof. B S Nagi	14-16 Dec 2015	30
6	Workshop on SPSS	Prof. B S Nagi	11-12 Jan 2016	30
7	PhD Orientation Program	Prof. Sanjay Srivastava, VC/ Deans/ Proctor	16-Jan 2016	47
8	Ethics and Values at WorkPlace	Justice R.S Endlaw and Justice S Ravindra Bhat, Delhi High Court	2-Apr 2016	140
9	Application for 'All India Times i3RC Engineering Institutes Ranking Survey2016'	IQAC Team	Report submitted on 8th April, 2016	NA
10	Lecture series on "Experiential Learning with Web Support"	Prof.Nathaniel G.Martin	18 April- 20May 2016	10
11	Expert Lecture on "Qualitative Changes Envisaged Ahead"	Prof.V.K.Mahna	9-Mar-16	76
12	Expert Lecture on "Examination system in MRU"	Prof.B.D.Pathak & Sh. Rajesh Tandon	16-Apr-16	80

# FACULTY



## FACULTY

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Till June 2016	154 (TOTAL)
Professor	10
Associate Professor	14
Assistant Professor	130

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**For Detailed list of faculties refer Annexure-II**

## ACHIEVEMENTS

The esteemed faculty members at Manav Rachna University put in their best efforts to impart knowledge to the founding batch of the University all through the year. In addition to strengthen the academic structure of the University faculty also involved in research work, publishing papers in journals, supervising Ph.D students, participating in conferences, attending workshops, delivering invited talks, contributing to MHRD assignments of video lectures etc.

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**Neha Bhatt, Megha Mittal and A.K Gupta**, Adsorptive removal of fluoride in aqueous solution using nano iron impregnated activated charcoal synthesized from Acacia Arabica, National Conference on Recent Innovations in Applied Sciences & Humanities(NCASH-2015) held at Rawal Institute of Engineering and Technology, Faridabad, October 10, 2015.

**Neha Bhatt, Megha Mittal and A.K Gupta**, Decolourization of Textile Azo Dyes by Using Low Cost Activated Tea Waste, International Conference on Recent Trends in Engineering Science and Management at J.N.U. New Delhi, Mar 15, 2015.

**Neha Bhatt, Megha Mittal, Anju Manchanda and A.K. Gupta**. Clove Extract Synthesized Iron Nano Particles: A Green Path towards Sustainable Environment, International Conference on "Green Initiatives in Science and Technology, Faridabad, Jan 15, 2015 (BEST PAPER AWARD).

**Meena Kapahi and Dr. Sarita Sachdeva**; oral presentation entitled Oyster Mushroom: Waste to Taste in the Smart Cities in Smart Regions 2016 Conference, May 10<sup>th</sup> – 12<sup>th</sup>

2016, Lahti university of Applied Sciences, Finland

**Meena Kapahi and Dr. Vinod Joon;** oral presentation entitled Smart Health in Smart Cities: Where does India Stand? in the Smart Cities in Smart Regions 2016 Conference, May 10<sup>th</sup> – 12<sup>th</sup> 2016, Lahti university of Applied Sciences, Finland.

**Meena Kapahi and Dr. Sarita Sachdeva;** Poster presentation entitled Biosorption of Cadmium: A Comparative Assessment of Fruit and Spent Mushroom Substrate of Oyster Mushroom (*Pleurotus florida*) in the powder form in the 8<sup>th</sup> International Conference on Mushroom Biology and Mushroom Products organized by World Society for Mushroom Biology and Mushroom Products (WSMBMP), Directorate of Mushroom, Solan and Mushroom Society of India, from 19<sup>th</sup> to 22<sup>nd</sup> November, 2014, New Delhi, India.

**Bindu Manchanda,** Vimal Kakkarakkal Kottiyath, Gurpreet S. Kapur, Shashi Kant, Veena Choudhary. The Effect of compatibilizer content on the Morphology, Thermal, Mechanical and Rheological Properties of Polypropylene/ HNT Nanocomposites. National symposium on Innovations in Composites for General Purpose to High end Applications, NSICHA 2015 GGSIP University, Dwarka 17-18 FEB, 2015.

**Bindu Manchanda,** Vimal Kakkarakkal Kottiyath, Gurpreet S. Kapur, Shashi Kant, Veena Choudhary Effect of natural nanotubes on the Thermo-mechanical properties of polypropylene. International Symposium on Polymer Science, Macro-2015, Kolkata, 23-26 Jan -2015.

**Bindu Manchanda,** Vimal Kakkarakkal Kottiyath, Gurpreet S. Kapur, Shashi Kant, Veena Choudhary Polypropylene/ Halloysite Nanocomposites: Effect of nanotubes on shear and extensional flow behavior of polypropylene. European Polymer Federation, Dresden, Germany, 20-26th June 2015.

**Megha Mittal,** Biodiesel from tea waste. International Conference on Smart Cities in Smart Regions at Lahti University of Applied Sciences, Lahti, Finland, May 10-12, 2016.

**D.K. Sharma.** IRI-2015 Workshop on 'Improved Accuracy in the Equatorial Region and Progress towards a Real-time IRI model' A COSPAR Capacity- Building Workshop held at King Mongkut's Institute of Technology, Bangkok, Thailand from November 9-13, **2015** and presented a paper entitled "Effect on solar activity on ionospheric electron and ion temperatures and comparison with IRI-2012 model.

**D.K. Sharma.** 3<sup>rd</sup> Lucknow Science Congress (LUSCON-2015) & National Conference on Science for Society an Interdisciplinary Approach held at Babasaheb Bhimrao Ambedkar Central University, Lucknow from October 31-November 2, **2015** and delivered an **invited talk** on the topic of "Role of Meteorological Parameters on Atmospheric Aerosols Concentration".

**D.K. Sharma.** International Workshop on Bridging Developing Divide for Inclusive Growth through Science, Technology and Innovation (BRIDGES-2015) held at Babasaheb Bhimrao Ambedkar Central University, Lucknow from January 16-17, **2015** and delivered an **invited talk** on the topic of "Studies on Atmospheric Aerosols Concentration & their Impact on Climate".

**D.K. Sharma.** XVI IAGA Workshop on Geomagnetic Observatory Instruments, Data Acquisition and Processing held at National Geophysical Research Institute (NGRI), Hyderabad in association Indian Institute of Geomagnetism (IIG) from January October 7-16, **2014** and presented a paper entitled "Equinoctial asymmetry in low latitude F2 region ionosphere".

## **Faculty of Management and Humanities**

**Bindu Agrawal.** Presented a Research Paper at National Seminar at DVA Centenary College ,Faridabad, on "Agriculture in the Age of Globalization on 27<sup>th</sup> Feb 2016. The title of paper was" Case Analysis of Successful Agribusiness in India for Sustainable Rural Development".

**Bindu Agrawal.** Presented a research paper at National Conference on, “Entrepreneurship Global Economy and Sustainable Development for Developing Nations” on 16<sup>th</sup> Jan 2016, at DAV College , Ajmer, Rajasthan.

**Bindu Agrawal.** Presented a paper titled “ Energy Efficiency and case study of Faridabad Small Industries Association” on 16<sup>th</sup> and 17<sup>th</sup> Jan 2015, organized and funded by DST- Centre for Policy Research, BBA University (Central University), Lucknow .

**Bindu Agrawal.** Presented a paper in International Conference on “Paradigm Shift in Management & Technology” titled, “Challenges and Motives among Women Entrepreneurs of Faridabad Region: Empirical Evidence” on 09<sup>th</sup> and 10<sup>th</sup> April 2015, organized by YMCA University.

**Gera, R** and Taneja, R (2015), “Modelling the consumer consequences of Website Quality of e- travel sites in India,: International Conference on Innovative Brand Building through Digital Marketing on 30<sup>th</sup> – 31<sup>st</sup> January, 2016.

**Gera, R** and Batra D K (2015), October 16, 2015, “ Evaluating the structure of e service quality in online travel in India:;, 7th National Conference on Business Innovations, Apeejay School of Management, Dwarka, New Delhi, India.

**Gera, R** and Batra D K (2015), October 16, 2015, “ Evaluating the structure of e service quality in online travel in India:;, 7th National Conference on Business Innovations, Apeejay School of Management, Dwarka, New Delhi, India.

## **Faculty of Education**

**Seema Sharma.** An Action Research on Reflective Teaching Learning Practices Paper Presented in Two Days National Seminar organised by Department of Education,

M.D.University, Rohtak. on April 23<sup>rd</sup> -24<sup>th</sup>,2016

**Seema Sharma.** A Critical Appraisal of NCFTE 2014 Paper Presented in NAAC sponsored National Seminar organised by KIIT college of Education Gurgaon on 16<sup>th</sup> and 17<sup>th</sup> February 2016

**Seema Sharma.** Facilitating Sustainable Development by Optimal Utilization of School Curriculum Contributed paper in NAAC sponsored National Seminar (13<sup>th</sup> -14<sup>th</sup> march 2015) organised by Aggarwal College Balabharh, Faridabad

**Seema Sharma.** Relevance of Present day Pre-service Teacher Education Programmes to the needs of Contemporary School Education.  
Paper Presented in National Seminar organised by KIIT college of Education Gurgaon on 13<sup>th</sup> March 2015.

**Kaur, J. (2015).** *Fostering professional Skills among Prospective Teachers.* Two-day National Seminar on “Transitions in Professional Identities of teachers” . Kamal Institute of Higher Education and Advance Technology, Delhi . 30th-31st March, 2015.

**Kaur, J. (2015).** *Religious Ethics towards Value Education- An Analytical Study'* (Research Paper). ICSSR sponsored national seminar on “Formulating New Education Policy For the Emerging India: Interventions, Expectations and Challenges”. Bhagwan Mahaveer College of Education, Jagdishpur, Sonapat, Haryana . 19<sup>th</sup>-20<sup>th</sup> December, 2015.

**Shreyasi.** Presented paper entitled “Innovative Practices in Teacher Education” in one day D.G.H.E. sponsored National seminar on “Emerging Role of Teacher Education : Global and National Perspective” organized by Rao Lal Singh College of Education, Gurgaon, Haryana on 14<sup>th</sup> March, 2015.

**Aditya Dhawan.** Issues infesting the system of Teacher Education, Conference Proceedings, Lingaya’s University, ISBN:978-81-924212-8-5, April 2015.

## **BOOKS/CHAPTER WRITTEN**

**Sujata Nayak.** FDP Proceeding Titled” Solar Radiation: Green option for Energy” on May11-23, 2015. Titled” Design of an indirect solar dryer”on book Titled “Renewable energy Technology”in **Narosa Publishing House, New Delhi.**

Preventing fluoride toxicity with selenium. Swaran J.S. Flora, **Megha Mittal.** In: Fluoride: Chemistry, Analysis, Function and Effects (Ed. Prof. Victor Preedy). **Royal Society of Chemistry, 2015, pp 308-326.**

Medical countermeasures-chelation therapy. Govinder Flora, **Megha Mittal, S.J.S. Flora.** In: Handbook of Arsenic Toxicology (Ed. S.J.S. Flora). **Elsevier, pp 589, Jan 2015.**

## **Conference/Workshops Organized**

A.K. Gupta (Organizing Secretary), Megha Mittal (Convener): **International RSC Workshop on ‘Chemistry for Tomorrow’s World’ from December 2 - 3, 2015 at New Delhi.** The workshop was jointly organized by Manav Rachna University, Faridabad, Green Chemistry Network Centre (GCNC), Delhi University, and Shiv Nadar University, Greater Noida and supported by Royal Society of Chemistry, London and Indian Oil R&D Centre, Faridabad. (Delegates-120)

A.K. Gupta (Organizing Secretary), Megha Mittal (Convener): **International Conference on Green Initiatives in Science and Technology on January 15, 2015** at MRCE, Faridabad in association with GCNC, DU, New Delhi and ISST, Ghaziabad and sponsored by Royal Society of Chemistry, London and Indian Oil R&D Centre, Faridabad.(Delegates-100).



Y.K. Awasthi (Convener). **National Conference on Emerging Trends & Innovation in Electronics and Telecommunication Engineering, 28, June 2016 at MRU, Faridabad** in association with IIIT, Delhi and IETE.

Ajay Kumar Agrawal. Organised a **One day Workshop on “Hands on Training and Servicing of the Profile Projector”** for Faculty members and Staff members of ME Workshop of the Department of ME, MRU on Feb. 20, 2016.

Sujata Nayak (Principal Investigator) **AICTE Sponsered QIP Programme on Solar Radiation: Green Options for Energy, conducted at Manav Rachna University, Faridabad on 11/05/15 to 23/05/15.**

**Meena Kapahi.** Convener National Seminar on Climate Change and Disaster Management organized by Manav Rachna Educational institutions (MREI) & the Centre for the Study of Administration of Relief (CSAR) on 18<sup>th</sup> June, 2016 at MR campus.

**Jaideep Singh.** Training Need Analysis”, 20 March-8 May 2015.

**Jaideep Singh.** Three Days Workshop on Verbal Communication Skills, 14 May -16 May 2015, conducted by MRASC.

**Jaideep Singh.** Faculty Induction Programme, 2-3 July 2015, conducted by MREI.

**Jaideep Singh.** Three Days Workshop on Verbal Communication Skills, 14-16 July 2015, conducted by, MRASC.

**Jaideep Singh.** Five days workshop for training of Subordinate Staff - Project Navodaya, 29 June- 4 July 2015, conducted by MREI.

**Chhavi Kulshreshtha.** Conducted FDP on Verbal Communication Skills: Communication at the Workplace with Emphasis on Teaching Learning Process, 14-16 May 2015, Conducted by MRASC.

**Chhavi Kulshreshtha.** Conducted FDP on Verbal Communication Skills: Communication at the Workplace with Emphasis on Teaching Learning Process, 14-16 July 2015, Conducted by MRASC.

### **Invited Lectures Delivered/Session Chaired**

**Meenakshi S.Khurana,** “4A’s to enhance Emotional literacy in school children, August 4, 2015. National Summit of School Principals, India Habitat Centre, Organised by ICTRC

**Sachin Lakra,** “Doing Research Work and Publishing Papers”, 12/Dec/2015, Chirala Engineering College, Chirala, Andhra Pradesh, India.

**A.K. Gupta.** Invited Lecture on “Technological Advancements & their impact on Environment” organized by ECO Club, MRU for B.Tech. and B. Sc. students on 4<sup>th</sup> May, 2016.

**A.K. Gupta.** Invited Lecture on “Recent Advances in Bio-Fuels” at National Conference on Recent Innovations in Applied Sciences & Humanities (NCASH-2015), Rawal Institute of Engineering & Technology, Faridabad on October 10, 2015.

**A.K. Gupta.** Chaired a Technical Session on “Nano and Environmental Chemistry” at National Conference on Recent Innovations in Applied Sciences & Humanities (NCASH-2015), held at Rawal Institute of Engineering & Technology, Faridabad on October 10, 2015.

**Sangeeta Banga.** Delivered a Lecture on “Biodiesel Production & Purification” during the AICTE sponsored Faculty development programme on “Solar Radiations; Green Options for energy” organized at MRU from 11<sup>th</sup> May to 23<sup>rd</sup> May 2015

**Bindu Agrawal.** Resource Person for “Awareness Campaign on Entrepreneurship”: Invited by Acharya Narendra Dev College, Delhi University, New Delhi, for workshop on 6<sup>th</sup> April 2016.

**Bindu Agrawal.** Resource Person for Workshop on Innovation and Entrepreneurship: Invited by Jamia Millia Islamia, Central University, New Delhi, for workshop on 15<sup>th</sup> March 2016

**Bindu Agrawal.** Session Chair at " The Luncheon Symposium", University of Tennessee on Project Clean Cycle, on 23rd Sep 2015.

**Bindu Agrawal.** Guest lecture to Undergraduate and Postgraduate students at University of Tennessee on the topic of "Building Social Entrepreneurship" , 21st & 22nd Sep 2015.

**Sujata Nayak.** Chaired session at TEQIP-II Sponsored National Conference at UIET, MDU Rohtak-124001, Haryana on Nov.20-21<sup>st</sup>, 2015

**Sujata Nayak.** Invited Lecture, TOPIC- Performance Evaluation of an integrated Hybrid Photovoltaic-thermal and Earth air heat Exchanger Greenhouse system” on National Conference: Recent Developments in Science and Technology at Lingaya's GVKS Institute of Management & Technology on May 28,2016.

**Sujata Nayak.** Invited Lecture, TOPIC- “Solar energy applications for greenhouse system”. Environment, Development & sustainability at YMCA University of Sc. & Tech.on July 4-8,2016.

**Sujata Nayak.** Invited Lecture, TOPIC- “Application of Hybrid Photovoltaic-thermal and Earth air heat Exchanger Greenhouse system”on AICTE Sponsered QIP Programme at CES, IIT Delhi ogramme on 8<sup>th</sup> May, 2015

**Meena Kapahi.** Lecture cum workshop on ‘Oyster Mushrooms: Waste to Taste’, in RMS Risk Management Solutions India Pvt. Ltd., Noida, 20<sup>th</sup> July, 2016 during Green Week Celebrations.

**Meena Kapahi.** Lecture cum workshop on 'Oyster Mushrooms: Waste to Taste', in NTTR sponsored One Week Short Term Course on Environment, Development and Sustainability (4 July - 8 July 2016) on 5<sup>th</sup> July, 2016 organized by Department of Humanities and Sciences, YMCA University of Science and Technology, Faridabad.

**Meena Kapahi.** 'Green Entrepreneurship' in AICTE sponsored Faculty Development Programme on Solar Radiations: Green Options for Future, ME, MRCE, 11<sup>th</sup> -23<sup>rd</sup> May, 2015.

**Meena Kapahi.** 'Let's Go Green', Education Expo (by Dainik Jagran) Faridabad on 29<sup>th</sup> -30<sup>th</sup> May, 2015.

**Babita Parashar.** A Resource Person with SWAYAM -PRABHA DTH channel on Teacher Education. A MHRD-Government of India Project from August 2016 onwards

**Ms.Kamal Gulati Manwani** Vidya School, Gurgaon. Workshop on Being an inspiring teacher for Primary, Middle and Senior school teachers. 30<sup>th</sup> January 2016.

**Ms.Kamal Gulati Manwani** Soami Nagar Pre-Primary School. Workshop on Child and Sexual abuse for pre-primary students and training programme for their teachers. 29<sup>th</sup> April 2016.

## **Recognition and Awards**

### **Prof. (Dr.) Sanjay Srivastava (MD MREI & VC MRU)**

Prof. (Dr.) Sanjay Srivastava (MD MREI & VC MRU) has been awarded Honorary Research Fellowship of Lahti University of Applied Sciences (LAMK-UAS), Finland. This rare honour was bestowed upon him by the Hon'ble Prime Minister of Finland Mr. Juha Sipila, who was in India for the "Make in India Week" on the invitation of Prime Minister Modi.

He is amongst the only three Research Fellows of LAMK-UAS Helsinki and is the first Asian Honorary Research Fellow of LAMK-UAS. Prof. Allan Barell (Univ. of Cambridge) and Professor Lene Foss (The Arctic University of Norway) are the previous two Honorary Research Fellows of LAMK-UAS. This honorary position will entitle Dr. Sanjay Srivastava to represent Lahti UAS on various international forums for academic improvement, research and development. It would also enable him to enhance Lahti UAS relations with Indian and other international universities as per policies of Lahti UAS Helsinki.

Lahti UAS is one of the Knowledge Partners of MRU and a MoU has been signed with Lahti University of Applied Sciences to collaborate on academic and research related activities encompassing the exchange of faculty and students, launch of activities like extension programmes, training and exchange of publications and research reports. The objective has been to bridge the gap between industry and academia through



focus on the skill centric courses with the aim of producing industry-ready professionals through improving employability and life skills.

**Meena Kapahi, Associate Professor, Chemistry Department**

Member Reviewer group, Smart Cities in Smart Regions 2016 Conference, May 2016,

Lahti university of Applied Sciences, Finland

Member International Steering Committee, Smart Cities in Smart Regions 2016 Conference, May 2016, Lahti university of Applied Sciences, Finland

Member Technical Review Group, International Union for Conservation of Nature\_World Conservation Congress (IUCN\_WCC), September 2016, Hawaii

Awarded as Bronze Partner for contribution to Campus Connect rollouts (Soft Skills) for the year 2014-2015 under Infosys Campus Connect Programme.

**Dr. Rajat Gera, Professor, Department of Management and Commerce**

Associate Editor: SKIREC Publications, <http://www.skirec.com/associate-editors.html>.

Editorial Advisor: (Knowledge Hub, ISSN 0973-6425).

Editorial Advisory Board member, 2009-2010 for special issue of Journal of Electronics Commerce in Organizations, published by IGI Global (ISSN: 1539-2937).

Editorial Board member for International Journal of Scientific Research in Knowledge (IJSRK).

Editorial Board member for Amity Business review, (Refereed Journal).

Reviewer for Pearson Publications, Macmillan India and McGraw Hill India Limited

International Journal Reviewer-Emerald Publications (Education and Training/International Journal of Education Management/)

**Dr. Megha Mittal, Associate Professor, Chemistry Department**

Member Reviewer group, Smart Cities in Smart Regions 2016 Conference, May 2016, Lahti university of Applied Sciences, Finland

Member International Steering Committee, Smart Cities in Smart Regions 2016 Conference, May 2016, Lahti university of Applied Sciences, Finland

Awarded as Silver Partner for contribution to Campus Connect rollouts (Soft Skills) for the year 2014-2015 under Infosys Campus Connect Programme.

**MEMBER EDITORIAL BOARD:**

1. Journal of Environmental Biology
2. Intellectual Society of Socio Techno Welfare
3. Oxidants and Antioxidants in Medical Science
4. BMC Complementary and Alternative Medicine
5. Free Radicals and Antioxidants

**ADVISORY BOARD:** Oxidants and Antioxidants in Medical Science

**Ms. Hanu Bharadwaj**

Ms. Hanu Bhardwaj, HoD Computer Science & Technology Department, won the first prize under the 'Inspire Faculty Contest for Distinguished Facilitator' for successfully incorporating Agile methodology in first programming courses at Manav Rachna University. *A tablet PC* was given as an award. The approach adopted by the department got appreciation from the Infoscions and other partner institutes. Prof. Nathaniel G Martin, Professor, CST (University of Rochester) has contributed a lot in bringing a change in programming approach by adding Agile techniques like Test Driven Development etc.

# STUDENTS



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## Admission

The year 2015-16 saw the joining of 294 bright students in the Faculty of Applied Sciences, Faculty of Engineering, and Faculty of Management and Humanities under various programs. In Undergraduate Programs 159 students took admission while in Post Graduate and Doctoral Programs 63 students were enrolled.

## Student activities

Student activities are an integral feature to promote a vibrant, stimulating, engaging and respectful campus culture. Manav Rachna University creates a balance between academic, curricular and extracurricular activities for preparing the young adults for life.

**Objective:** The office of the Dean of Students Welfare is primarily concerned with students' welfare from entry to graduation. University life marks the beginning of one's career and requires one to make mental, physical and emotional adjustments.

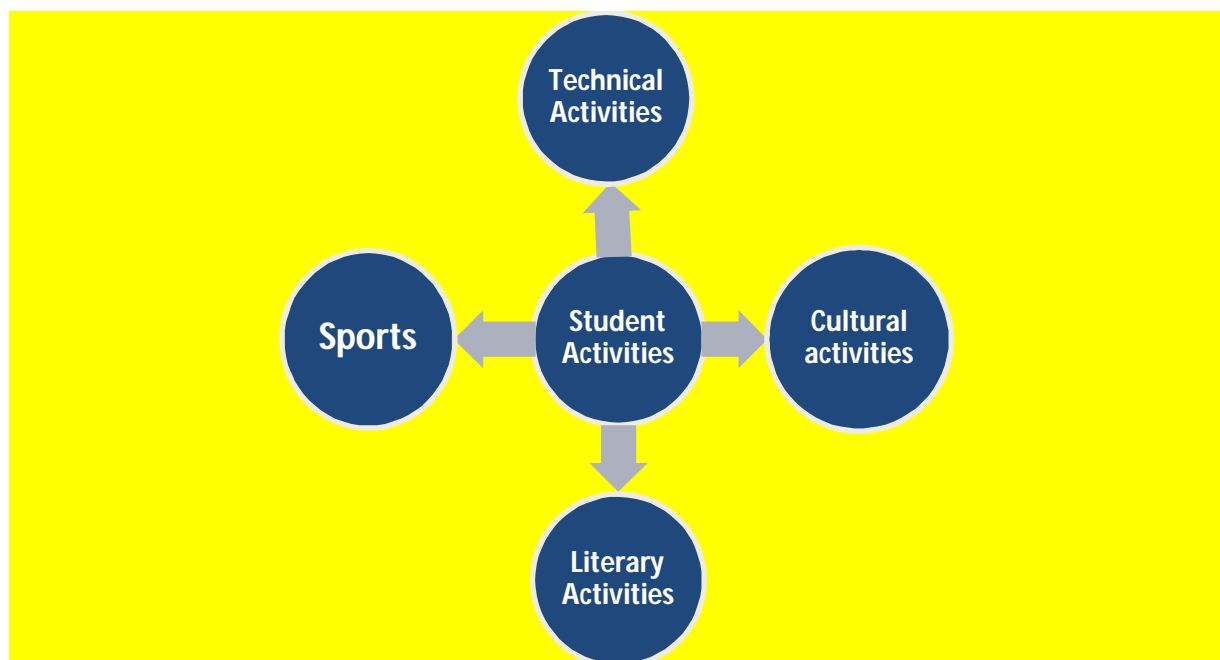
## Dean students & welfare has various roles and responsibilities:

- Co-ordinate the activities of the different bodies concerning student welfare and finalizing students activity calendar.
- Recommend the students' proposals for various projects.
- Organize various events/competitions in the university from time to time thereby ensuring representation of the university in inter-university competitions.
- Organize orientation programmes for the new entries
- Organize concluding ceremony and convocation for passing out students
- Manages Alumni affairs and organize Alumni meet

## Clubs

MRU promotes the participation of students at International & National Level Activities, Institute & Department Level Activities and Social Activities. MRU Students Council

Body works through its different clubs such as Technical Club, Cultural Club, Literary Club and Sports Club. The body plans the various activities such as contests, seminars, workshops, guest lecturers etc.; publishes a students' activity calendar for the semester and accordingly organizes various co- and extra-curricular activities. Financial aid is provided to the students for developing the projects and their participation in various competitions at International as well as National level. All the activities of these clubs are managed by students, under the mentorship of a faculty member.



MRU hosted various activities around the year under the banner of different clubs like Technical, Cultural, Literary, Sports, Entrepreneurship Development cell and Socio. These clubs further expanded and new clubs were added as a branching.

### **Activities Organized In House under various clubs**

- **Resurrection 2K 15 (Techno Cultural Fest) Resurrection 2K15**, the Annual Festival of Manav Rachna at its Campus on 15-17<sup>th</sup> April 2015. This event witnessed participation of about 400 students from various colleges and institutions in 25+ events ranging from Cultural, Literary and Technical

departments. In addition to the scintillating events, the FEST had two happening PRO-NITES: a JAM session on 15th April and an EDM Night on 16th April 2015 which saw 15,000 students jumping to the beats by **Nikhil Chinapa**(from Bangalore) and **Megamen** (INTERNATIONAL Featured Artists from Tomorrowland, Belgium). DJ Wars, Fashion Show, Battle of Bands, Nutri Salad, Group Dance, Street Soccer and EDM night were the highlights of the events and magnetized huge crowds. The EDM (Electronic Dance and Music) Nikhil Chinapa was quoted as saying on his facebook page, “Asia’s Best EDM night after Mood Indigo (IIT Bombay’s FEST).

- Entrepreneurship Development Cell conducted a Panel discussion on “**Explore your Business Idea**” on **23<sup>rd</sup> October, 2015**. In this panel discussion, 7 business ideas were discussed in front of the Panelist. The major motive of this panel discussion was to analyze the feasibility of these ideas.
- SAE, MRU in association with CADD Center Faridabad, organized two days design workshop on 27<sup>th</sup> & 28<sup>th</sup> August, 2015. This workshop was a great success as it saw the participation of more than 120 students.
- Electronics Society of IEEE in association with Xinoe Systems Pvt. Ltd. organized a workshop on prototyping and Interfacing on Spartan 6 FPGA on 10<sup>th</sup> September, 2015.
- Electronics Society of IEEE in association with Wingfotect Excellence organized a workshop on Raspberry Pie in te month of October, 2015.
- Electronics Society of IEEE in association with MRIIC organized a two days workshop on Robotics, Arudino and Code Free App Development for the B tech first year students.
- SAE, MRU organized a workshop on CRDi. Transmission, carburetor, 2 stoke, 4 stroke & Maruti 800 Engine on 5<sup>th</sup> & 6<sup>th</sup> November, 2015.
- Photography club of MRU organized a photography workshop on DSLR Camera on 9<sup>th</sup> September, 2015; more than 70 students participated in the workshop.
- During wild life week, B Tech and BSc. first year students visited Asola Bhati and interacted with the officials there and attended a lecture on wild life and various projects running at Asola Bhati.

- Literary Society, MRU in association with Employees' Provident Fund Organization organized Panel discussion on the topic "**Preventing Vigilance as a tool of Good Governance**" during Vigilance week on 26<sup>th</sup> October, 2015.
- Literary Society, MRU organized a essay writing competition on the occasion of "Constitution Day" on 26<sup>th</sup> November, 2015.
- **Legendary shooter Mr. Russell Mark** visited MRU campus on 28<sup>th</sup> September, 2015 and interacted with the students. A Double Trap clay target shooter and shooting coach, Russell Mark has many laurels to his credit, most notably the Olympic gold medal in Double Trap at the 1996 Summer Olympics in Atlanta. In March 2009, Mark was inducted into the Australian Clay Target Association's Hall of Fame as its youngest ever member. He has been associated with the world's leading firearm manufacturer, Beretta Italy, since 1986.
- IEEE Student branch of MRU organized, **BEAT THE CLOCK** 2016 on 26<sup>th</sup> Feb 2016 to test the aptitude and general knowledge of participants, especially those who are going to appear for placements in the month of September, 2016.
- IEEE Student branch of MRU organized BEG BORROW STEAL, a fun event participated by more than 80 students.
- The student branch of IEEE MRU in collaboration with IEEE DTU organized a workshop on robotics and line coding on 5<sup>th</sup> Feb 2016. Student delegates from IEEE DTU took a session for about 4 hours in which 50+students attended the workshop, making it a success & an amazing platform for our students to learn from the speakers and participating in the DTU tech-fest (INNOVA 2016).
- MRU IEEE in association with IEEE NSIT organized, **THE STRING OF HER HARMONY** on 19 Feb'16. Colleges from all over Delhi and NCR participated. "The strings of her harmony" was a cluster of three competitions namely: Q buzz (quiz), Whirl & Hurl (debate), AV Inquest (discussion based on audio visual). The event was highly beneficial as students gained experience as well as a wide exposure.
- For the gaming enthusiasts of Manav Rachna University, an event was organized on 10<sup>th</sup> & 11<sup>th</sup> March 2016. The 2 day event saw a participation of more than 100 students on 2 gaming platforms i.e. Counter strike (source) & mini militia. Gamers

from the entire college were seen participating in the event & the winners got a cash price of Rs.1500 & Rs.1200 in counter strike & mini militia respectively.

- MRU IEEE student branch came up with a way of teaching the students a new aptitude concept every Wednesday (started on 24<sup>th</sup> Feb 2016). A concept that can be learnt in not more than 5min's and everyone can relate and use it in solving day to day questions. Every Wednesday during break two of the team members sit in front of H-block and teach students new aptitude concepts.
- Under the Innoskill 16, students from ECE department organized the competitions, line follower robot, quadcopter, flex controlled robotic arm.
- To familiarize the students with the programming of PLC, workshop cum activity on PLC Programming was organized from 3<sup>rd</sup> to 5<sup>th</sup> March, 2016. Students were taught about the PLC programming and later they themselves tried their hands on PLC programming.
- Eco Club of MRU organized a Lecture by Prof. A.K. Gupta on "**Technological Advancements & their impact on Environment**" on 4th May, 2016
- Fine arts club organized the RANGOLI competition on 10th February, 2016; Wednesday 12:10 pm to 1:50 pm, to celebrate the Environment week.
- Entrepreneurship Development Cell of MRU organized a Business Quiz on 8<sup>th</sup> April, 2016, Quiz covered the Finance, entrepreneurship and Human resource management related questions and students took part as per their choice in above said fields.
- Fine arts club of MRU organized the activities like **BEST OUT OF WASTE, MAGIC OF FINGERS and QUILLING** during the semester for students to give them opportunity, to exhibit their creative skills on the various themes.
- Cultural club of Manav Rachna University organizing a Solo singing/ instrumental competition Western Dance Competition for the students.
- On 17<sup>th</sup> February, 2016 Department of Theatre organized Theater Workshop to teach the students about the execution of a perfect theatre play.
- DOT on 2 March 2016 organized **Dubsmash Competition**, to see their hidden talent of delivering dialogues.

- Ad-Mad Competition was organized on, 5 May 2016, the focus of the activity was to create a platform for the students to exhibit their extempore acting talent and to test their group skills
- Literary club of MRU organized, Slogan writing Competition & Essay writing Competition, on 25<sup>th</sup> January, 2016. The objective was to create awareness among students and make them remember the sacrifices of our great leaders towards the country and to recall and commend them that how autonomy was achieved by India on January 26th 1950 with the formation of the Constitution of India by Dr. B.R. Ambedkar.
- Literary Club Screened the Movie "**The Walk**", on 11th February, 2016. Movie screenings also helped to enable the students explore the on-screen adaptations of the language.
- Quiz on Life of Sir C.V. Raman was organized by literary club of MRU on 2nd March, 2016.
- To promote literacy, builds community, and fosters emotional resilience, Poem writing competition was organized on 2nd March, 2016. For the photography lovers, Photography Competition was also organized followed by certain tips from the experts. This helped the participants in the basic understanding of technical aspects of camera operation, exposure control and also become familiar with photographic materials, as well as artistic composition and design.
- Sports club of Manav Rachna University organized Intra college sports tournament. Sports like Volleyball (Men & Women), Basket Ball (Men & Women), Cricket (Men) and Table Tennis (Men) were organized.
- Girl's sports meet was organized on 5<sup>th</sup> February, 2016. About 300 girl students including Hostellers and Day Scholars participated in different events. It was a very enjoyable experience for all the girls as they were very happy to participate. Fun Games like Tug of War, Musical Chair, Relay Race, Three legs Race, Spoon Lemon Race and Basket Ball match were organized during the meet.

## Participation in various activities outside MRU

- The Delhi Section Young professional Women in engineering congress 2015 was held at Jamia Milia Islamia University on 5<sup>th</sup> & 6<sup>th</sup> September, 2015. 10 IEEE Members from MRU Participated in the congress actively.
- Team of 62 Students from MRU participated in the **sports meet of BITs Pilani**, held in the month of September, 2015.
- Group of 20 Students participated in the various technical Events at IIT Kharagpur Technical Fest from 29<sup>th</sup> Oct to 1<sup>st</sup> Nov. 2015.
- 3 students from MBA department attended the NHRDN- Prof. Ram Charan Young Icon Awards-2015, for HR professionals and Students.
- Dramatics team, Khalbali of MRU participated in Chandigarh University Fest, held from 29<sup>th</sup> Oct. to 1<sup>st</sup> Nov. 2015.
- Dance team, Mridraksh of MRU participated in IIT Kanpur fest, held from 29<sup>th</sup> Oct. to 1<sup>st</sup> Nov. 2015.
- IEEE Student chapter under the Delhi section organized a workshop on web Development at Jamia Hamdard University. More than 140 students from Delhi-NCR participated and our IEEE student chairperson Sunakshi Mehta was the Guest Speaker for the Workshop and was assisted by Vakul Sehgal and Divesh Popli.
- Students from ECE department represented Manav Rachna University at the Annual Technical Fest EXODIA, 16 organized by IIT Mandi from 8<sup>th</sup> to 10 April. They participated in the event ROBO Race & ROBO Soccer and qualified for the finals.
- Students from CST Department participated at TECHKRITI, 2016 in the robotic category iARC being organized by IIT Kanpur from 2<sup>nd</sup> to 7<sup>th</sup> March, 2016.
- Team Mirdaksh participated in a Group dance competition organized by Dayal Singh College, Delhi University on 5<sup>th</sup> Feb 2016 and qualified for the finals.
- 3 students from Mridaksh group participated in Experience the stage –All India dance championship, organized by Guidance Project from 16<sup>th</sup> to 18<sup>th</sup> Fe, 2016. Our students qualified for the final round of this championship. Top 6 college teams from all over India were selected for the finals

- 6 students from Mridaksh group got the opportunity to perform in the event Voice of Punjab Grand Finale, organized by PTC Punjabi from 2<sup>nd</sup> to 4<sup>th</sup> March, 2016.
- **Event on Social Enterprise was organized at University of Chicago Center, Baba Kharak Singh Marg, on 17<sup>th</sup> March, 2016** At this event 5-6 social enterprises showcased their enterprises through 3-minute Elevator Pitches. Also there was an **interactive session with Sir Ronald Cohen**. This event was covered by Mint in Delhi and B-IIC (Impact Investors Council) is the national association of all social impact Funds or Venture Capitalists who invest in social businesses.

### **InnoSkill 2016**

MRU organized annual innovation festival called InnoSkill 2016 from 2<sup>nd</sup> to 4<sup>th</sup> April, where plethora of competitions like LAN gaming, app development, Line Follower, Circuit Buster etc., workshops on latest trends were organized for the students

### **Social work**

The goal of social work is to encourage a positive impact through its activities on the environment, employees, communities, stakeholders and all other members of the public sphere. It is the deliberate inclusion of public interest into institutional decision-making that is the core and the honoring of a triple bottom line: people, planet, profit. At MRU social activity programs are in areas like education, health, livelihood creation, skill development, and empowerment of weaker sections of the society.

- **Leo Club Manav Rachna** in association with Dr. O P Bhalla Foundation and Lions Club Faridabad organized the blood donation camp on 16<sup>th</sup> September, 2015. More than 450 unit of blood was donated by the students of MRU.
- Under Dr. O P Bhalla Foundation, Students of MRU visited Govt. Girls High School in Mohna Village in the month of October and conducted classes for the school students on concepts of Science, Mathematics, personal hygiene and general awareness.
- Under Dr. O P Bhalla Foundation, students, faculty and staff of MRU collected **1525 Kg rice** under the project **Ek Muthi Daan in the month of October, 2015**.



Rice collected through this drive is sent to three different NGO's running shelter homes for underprivileged children.

- **MRU IEEE WIE and Leo club Manav Rachna** in collaboration with **NGO Prakash Deep** taught students of the NGO to make candles and diyas. The final products were sold in the college from 4th Nov to 6th Nov and the profit earned was deposited in the account of the little children.
- Under Dr. OP Bhalla Foundation, cleanliness drive is carried out at Faridabad Railway station and Shiv Mandir , Sainik Colony, Sector 49, Faridabad
- LEO Club of Manav Rachna in collaboration with Manav Rachna Dental college organized Dental Checkup camp for the students of NGO Prakashdeep, Sector 21D, Faridabad
- Under Dr. O P Bhalla Foundation, students, faculty and staff of MRU collected **1500Kg rice** under the project **Ek Muthi Daan in the month of March, 2016**. Rice collected through this drive is sent to three different NGO's running shelter homes for underprivileged children.
- Students, Faculty and Staff of Manav Rachna University collected around 1.5 Lakh for the treatment of Daughter of Mr. Kasiram (Lab Technichian in Carpentry Shop), who is suffering from Blood Cancer.

## **Alumni Network**

When choosing colleges/universities for higher education, students put a high priority on finding the best academic programs for their field of study. While this is obviously important, another factor that potential students should consider is the alumni network at each of their prospective choices. Alumni networks do more than help fund Alma Maters; they become a professional and personal community to aid graduates in advancement throughout the course of their lives. MRU also has an Alumni Association to cater the needs to future students and establishing an everlasting relationship with our Alma matter.

- Manav Rachna Alumni Association organized a series of Alumni Lectures for the current students during the year. Purpose of this interaction is to make the

student aware of culture in the industries, options available to students after B Tech, latest technological trends/ upcoming technologies in the relevant streams and to motivate students about progressing from college life to professional life keeping hand in hand with the basic attributes of life which are time management and positive attitude.

- During AICTE Sponsored FDP on Solar Radiations Ankit Bhugra, Alumni of B.Tech 2006-2010 batches (Director Technical at Greenage India Ltd.) delivered a lecture where he discussed about the current status of renewable energy sources and the importance of solar energy. He also conducted a workshop to give hands on experience to all the participants on taking observations on stand- alone PV System.
- MBA Dept organized Alumni Meet on 18th April, Approximately 100 alumni from Delhi NCR participated in the meet.
- Mr. Ikshit Puri 2004-08 Batch CSE dept, Ms Chayanika 2006-2010 Batch ECE Dept and Mr. Akshay Kaushik 2008-2012 Batch ME dept interacted with new entrants of MRU during orientation programme and shared their experiences about college life and how their learning and student life at Manav Rachna has been helpful in their holistic development.
- Board of studies of every department has one Alumnus as member of its BOS and they are part of our curriculum development process.
- Recently, two students from 2004-08 Batch (ME Dept) Govil Gupta and Milan Kapoor started their own Venture called MANSAA in DLF Gurgaon and visited CRC on 18th March, 2016 to recruit B. Tech 2016 students from CSE, IT, ME and ECE for their Electronics Hardware and Software Manufacturing. 18 Students Appeared for the interview.
- Harshit Chaubey from 2004-2008 Batch (AEI) and Latika Malhota from 2006-2010 Batch (IT) recently visited the campus and shared their experiences about Manva Rachna College of Engineering and the change that has been there during all these years

## STUDENT ACHIEVEMENTS

Transition from School to University education not only widens the horizon but also come up with many challenges. Issues of freedom, choice, rights, and responsibilities are paramount during this stage. While MRU strives to offer an excellent educational experience to our students, our students also adds feather to the University's cap by their achievements and activities.

- In Microsoft Imagine Cup, 2015 National Finals three teams in three different categories emerged out as winner:
  - **Gaming: 1<sup>st</sup> Position**
  - **Innovation: 1<sup>st</sup> Position**
  - **World Citizenship: 3<sup>rd</sup> position**
  - **Finally, the team under innovation category, team Eyeluminate represented India in the International finals of Imagine Cup, held at Seattle, USA from 27<sup>th</sup> July to 31<sup>st</sup> July, 2015.**
- The first **BRICS Youth Summit** held in Kazan, Russia from the 1<sup>st</sup> – 7<sup>th</sup> July 2015 saw participation of more than 200 delegates from 5 different nations – **Brazil, Russia, India, China and South Africa**. Jehi Jha and Neha Valecha from Manav Rachna University were the lucky few who got an opportunity to be a part of the delegation of 50 Indian Students, selected and sponsored by Ministry of Youth Affairs, Government of India.
- **Roopam Sharma** student of 3<sup>rd</sup> Year CST department won **the World Championship of Microsoft Youth Spark Challenge 2015**. He was first chosen as one of the 15 world finalist and has finally emerged as the **Grand winner**. He received the **cash prize of \$2,500** to help him turn his ideas into a reality. He also got the opportunity to attend **six weeks of leadership training program at Microsoft in Nicaragua**.
- **Vikas Kasana** of 5<sup>th</sup> semester ECE department participated in the **International Robotics Olympiad held at Qatar** from 6<sup>th</sup> to 9<sup>th</sup> November, 2015.

- **VAIBHAV TANEJA**, student from Mechanical Engineering, cleared an exam to get professional certification as part of design specialist on **CATIA V5 R19 approved by Dassault Systemes, FRANCE.**
- 6 students got selected as **Microsoft Student Partners (MSP's)** for the year 2015-16. Details of the students selected from MRU are **Kamal Verma (7th sem, CSE), Monika Rani (5th sem, CSE), Aditi Chauhan (7th sem, CSE), Swaraj Singh (3rd sem, ECE), Kartik Sibal (1st sem, CSE) and Niharika Kalia (5th sem, IT).** The Microsoft Student Partners is a worldwide educational program to sponsor students majoring in disciplines related to technology. The MSP program enhances students' employability by offering training in skills not usually taught in academia, including knowledge of Microsoft technologies.
- **Yahoo Accenture Innovation Jockey's Season 4:**
  - **Team Eyeluminatae** emerged out **winners at the 'Cognitive Computing and Internet of Things'** category retaining their spot from the last year.
  - **2 projects** developed by MRU students also won the **'Popular ideas'** award.
- **Himanshu Khatter** of IT 7<sup>th</sup> Semester was selected the **top 5 beta tester in honor beta testing program organized by by Huawei.** He was awarded with many prizes and got **the invitation to attend HUAWEI 2nd ANNIVERSARY CARNIVAL** which is a global event scheduled on 12th of December in **Shenzhen,China.**
- Team Cronos comprising of **Akash Lohan, Anjan Kar, Sahil Tanwar, Rahul Sharma and Himanshi Bhadana** bagged the second prize for its coveted project "Klodo".
- Team Eyeluminati comprising of **Roopam Sharma (CSE 4<sup>th</sup> Year) and Neeraj Saini (ECE 3<sup>rd</sup> Year)** secured 2nd position and scored a honorable mention at the World Finals of the MIT's Global Startups Workshop Competition **held from 21<sup>st</sup> to 23<sup>rd</sup> March 2016, at Hyderabad.** During the finals, 10 teams from across the globe competed, team from Massachusetts Institute of Technology secured

the first position followed by Team Eyaluminati from Manav Rachna who took the second place and also secured an honorable mention.

- Roopam Sharma student of 4th Year CST department Selected for “**India’s top innovators under 35**” India Edition being organized by Mint, the financial daily from the stable of HT Media Ltd, and MIT Technology Review, published by the Massachusetts Institute of Technology (MIT). Roopam Sharma is going to be mentored by John Chambers, Founder Chairman Cisco.
- For the year 2015-16, IEEE Delhi section in its award ceremony at MSIT on 23rd April 2016 awarded **Sunakshi Mehta, the Chairperson of MRU IEEE** with the Outstanding Student Volunteer Award for the second year in a row. **Upasana Nagpal, the chairperson of MRU IEEE WIE** was awarded Outstanding WIE Student Volunteer Award. **Vakul Sehgal, the Vice Chairperson of MRU IEEE was awarded with Dr. JK Pal Memorial Best Student Volunteer Award. Also, Vakul sehgal was felicitated for being an active coordinator of SAC Team of Delhi Section.**
- Anmol Dhingra of CSE being a winner of **Big Data & Hadoop** competition organized during Cognizance 2015 at IIT Roorkee, **received the special invitation this year to compete with the winners of Zonal rounds during Cognizance 2016, held from 18<sup>th</sup> to 20<sup>th</sup> March 2016.**
- Students from ECE Department participated at Utkranti 2016, Technical Fest of IIT Madras, organized from 2nd to 7<sup>th</sup> March and secured 3<sup>rd</sup> position in Robotics event.
- Two teams from B.Tech first year participated in the Maze Solver competition during the Technical fest of Chandigarh University organized from 17<sup>th</sup> to 19<sup>th</sup> March, 2016. Team comprising of Ankit & Mayank stood 3<sup>rd</sup> and were awarded cash prize of Rs 5000/-.
- **Team Autotragners** from Mechanical Engineering department **participated for the finals of Formula Student India (FSI)** held in January, 2016.
- Students from B.Tech first year participated in Inter-District event ‘**IGNIDEA 2016**’ organized by The Environment Club and the Planning Forum of DAV Centenary College on 1

- 1th April, 2016. Abhinav Sharma (CSE) and Ashu Singhal (ME) bagged I prize in quiz competition.

## STUDENTS PLACEMENT: 2015

MRU received a very good response from the corporate world for placement of students of the batch of 2015-2016. Corporate's faith in the B.Tech and PG program of MRU saw a tremendous response and support from the recruiters. More than 52 companies have participated in our placement process and offered jobs to 235 students (between July 2015 – Dec 2015). Around 30 companies participated for the first time.

MRU's graduates got a variety of roles from a wide spectrum of sectors, across multiple functional domains. These include offers from:

- Consulting
- IT/ITES
- E-Commerce
- Telecom
- Manufacturing
- Analytics
- Digital Marketing
- BPO
- Logistics

This year there is a significant increase in the number of companies vying to tap the talent on campus, which is a sign of trust by corporate and opportunity for students of PG courses.

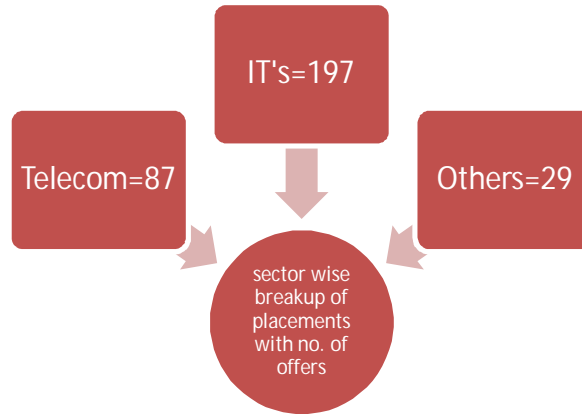
Some of the prominent recruiters who have participated in our campus placement are:

S.NO.	COMPANY VISITED	NO. OF STUDENTS PLACED
1	Tata Consultancy Services	112
2	Accenture	49
3	Ericsson	25
4	Sukam	8
5	Think & Learn	35
6	Green India	12
7	Sunlife	7
8	Arnav Technology	4
9	Maintec	9
10	Micromax	2
11	Rannlab	5
12	Collebra	2
13	Effectual Services	3
14	HCL CDC	4
15	Xperia	2
16	Pyverse	7
17	Printland	3
18	Cram Technology	4

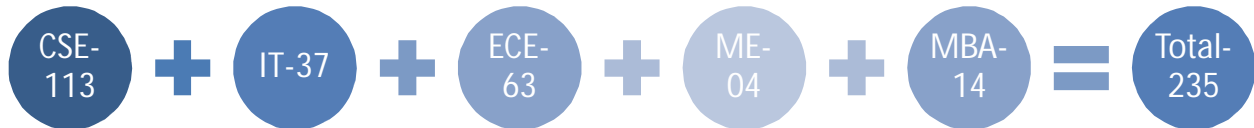
### **Overseas Placement:**

This year, MRU student received 1 International Placement with industry leading pay package. The offer came from:

- CINDA(Singapore) – 1; The highest annual package offered was Rs. 4.15 lakhs and the average package was Rs. 3.35 lakhs p.a.



Placement Summary Department Wise:



**320 Gems Placed in 52 companies**







# **INFRASTRUCTURE AND SUPPORT SERVICES**

## **INFRASTRUCTURE AND SUPPORT SERVICES**

### **Wi-fi Enabled Campus**

The University is Wi-fi enabled and equipped with latest computing facilities in accordance with AICTE norms. All computers are connected to the internet with a bandwidth of 45 Mbps. A range of e-services is available to students: internet on all computers, digital library, availability of course descriptions and course material on the intranet, e-journals, e-feedback facility, e-newsletter etc.

We have a campus LAN, on which a Learning Management System is made available, which can facilitate students to discuss academic topics, submit their assignments online, see their class notes, study through specially designed learning resources and also refer to reference and digital library.

### **Library resources**

Manav Rachna University library offers state-of-the-art facilities and continues to strive for setting higher benchmarks in its range of information services and resources. The library has a wide range of collection in different areas of management, engineering, applied sciences, education, etc. The library is equipped with both print and e-resources with a large collection of national and international journals, magazines and newspapers.

The library has added about 8067 books and reference books in its collection during the period 2015-16. It subscribes to 144 journals and magazines both national and international for the reference of readers. The library subscribes to 11 newspapers and disseminates news items for the reference of readers. It has excellent collection of electronic books and journals. The Library subscribes to a range of online databases containing 17338 online journals and 89434 e-books and reference books. The e-resources subscribed by the library are a range of reputed national and international journals such as IEEE - ASPP POP Combo Package, ASME, ASTM Digital Library, McGraw Hill, J-Gate Engineering, J Gate Management, EBSCO: Business Source Elite

Plus and ACM Digital Library. MRU library remains open from 8:00 AM to 5:30 PM on Monday to Saturday.

### **Holdings of the MRU Library as on 31st March 2016**

<b>Type of Collection</b>	<b>No. of Holdings</b>
Books	30850
Print Journals & Magazines	144
Newspaper	11
CDs/ DVDs	2148
E-journals	17338
E- books	89434
Online Databases	8
Project Reports	1583

### **Access to Digital Resources and Online Services**

The library has developed and strengthened internet and intranet activities in the University to connect, handle, share, leverage and disseminate various types of information among faculty and research scholars such as books, articles, research reports, conference/seminar proceedings that are available on web page of the library portal <http://www.library.mru.edu.in>. The library has also successfully launched the facility of remote access services and trial of single window search solutions and e-books collection from various sources including Ebscohost, McGraw Hill and ACM Digital Library.

Online library services have been extended through internet and intranet to provide round-the-clock access such as List of New Additions; List of Journals Subscribed; Contents Alert; Full Text Access of Online Journals Databases and Bibliographic Service - On demand; Literature Search; Electronic Document Delivery Service (EDDS). The library provides membership and borrowing privileges, research and reference, Current Awareness Service (CAS), Selective Dissemination of Information (SDI), Insta Alert service for library transactions, library orientation, reader's advisory services and Ask a Librarian to the readers. It has strengthened the Inter Library Loan

(ILL) and resource sharing activities in meeting the requirements of readers related to books, documents, articles, etc. through Developing Library Network (DELNET). Photocopying facility at the university enables students to get photocopy of their desired material at a nominal price.

MRU has fully automated its operations by using integrated software LibSys7. All books and reference books are classified with Dewey Decimal Classification (DDC) scheme and arranged on the racks respectively. The users can search their required books or document according to their choice in the library. Its rich collection, wide array and variety of services and facilities attract and encourage the readers to use its information resources and services. The library offers a user friendly air-conditioned environment with a fully computerized open access system. It has comfortable, peaceful and conducive environment of reading and is equipped with, good lighting and generator backup facilities to its readers. The reading facilities are heavily used by the faculty, research scholars, students and visiting faculty of the University.

### **Orientation Programs and other Activities**

The library team successfully organized a series of hands on session training and user awareness /orientation programs specifically to the research scholars, students, faculty and staff.

Some important links are:

Library Portal: [www.library.mru.edu.in](http://www.library.mru.edu.in)

Library OPAC: <http://libopac.mrei.ac.in>

### **Smart class room**

The classroom for the conduction of primarily Doctoral Program classes was developed as SMART CLASS ROOM with the help of external agency Impartus Innovations and internal IT support system. Scholars can attend the lecture online and accordingly their attendance can be marked.

## **Dr O.P. Bhalla learning lounge**

The **Dr O.P. Bhalla Learning Lounge** is a first-of-its-kind concept in Faridabad's academic landscape with state-of-the art infrastructure, with journals, books and a hi-tech discussion room for making presentations and conducting online discussions and meetings. The Learning Lounge is an ideal heaven for their scholarly pursuits. Scholars can access books, journals (both online and in hard formats). They can read at leisure, browse through magazines and newspapers or work hard at their lessons with their guides and mentors. A hi-tech Discussion Room encourage scholars to make presentations from time to time or engage in discussions and brainstorming sessions. A number of journals linked to the library resources online can be accessed at the Lounge which is well decorated with potted planters and polished wood furniture. The lounge has a special corner showcasing photographs of all the scholars of batch 2016 and their remarks about the PhD Program.

## **ERP at Manav Rachna**

Any organization with large amount of data, multiple processes, varied requirements, and an integrated management information system is essential. Enterprise Resource Planning (ERP) applications are the answer to such requirements. ERP covers the techniques and concepts employed for the integrated management of business as a whole, from the viewpoint of the effective use of management resources, to improve the efficiency of an enterprise. ERP software packages are integrated covering all enterprise business functions

Manav Rachna group was surveying a good number of such application software for over a year and finally shortlisted and agreed to contract the ERP designed, developed and supported by a reputed software vendor Tata Consultancy Services (TCS).

At Manav Rachna, TCS-iON ERP portal is being used for the last four years and the key modules include:

- ❖ Campus Management System comprising of:
  - Applicant Database
  - Student database
  - Timetable Module

- Attendance Module
- Exam & Grading Module
- ❖ Human Resource Management System(HRMS)
  - Employee Information
  - Leave Management
  - Performance Appraisal
- ❖ Finance & Accounts
  - Student Fee Management
  - Account Payable
  - Balance sheet
- ❖ Purchase & Inventory Management.
- ❖ Self Service Portals for students & employees

Professional Virtual Community: This module is a single sign on portal enabling the authenticated user to experience a social networking like interaction with fellow students, Faculty member and management representatives. This portal also acts a medium of Learning Management System (LMS) for the student, participate in online quizzes, debates, and much more. Student can interact with fellow students, their mentors, faculty members and staff. The fundamental difference of this module with the other similar public domain products is the users are authenticated by the administrator and must be a part of the MR family.

## **Cloud campus**

Manav Rachna University has a Cloud campus which acts as a skill development platform that provides globally acclaimed and industry leading cloud based learning systems. It is a comprehensive yet flexible Learning Management System, compatible with multiple devices such as desktops, Laptops, Tablets and Smart phones that will give students and faculty access to a world - class digital library with over 50000 titles from 634 publishers covering Business, Management, Engineering, Finance, IT and many more topics keeping in sync with 7500 plus skill development courses. Over 100 certification courses along with Quality content with cost and operational efficiency are also available.

The cloud campus will work towards bridging the gap between academia and industry by providing students an environment to learn and upgrade their soft as well as hard skills. The cloud campus will also help faculty in supplementing their classroom teaching through courseware and stimulations. The MRU Cloud campus is meant to create an effective learning model amongst academicians, students and industry to promote and share educational content and research.

## Technology in classrooms and labs

Manav Rachna University offers a world class infrastructure to its students. Classrooms are fitted with latest equipment for making presentations, lectures, debates and group discussions take place in the most convenient and enriching way.

Students get all the ICT support in their Smart Classrooms and are encouraged to perform as digital learners. The latest technology with Interactive Boards and Projectors is extensively used in the classroom to benefit young learners. The modules are aligned with the curriculum in an interactive and engaging way. All the teachers are allotted laptops to keep abreast of the latest knowledge and technology.

- Connection for Video with Audio
- Connection for Laptop
- Projectors,
- Computer, Windows PC
- Network / Internet Access Port
- A dedicated computer center at Manav

Rachna University provides easily accessible and excellent computational facilities to the faculty and students with over 500 high end computer catering to their academic, research and recreational requirements.

- Manav Rachna University campus has excellent internet connectivity with seamless wireless connectivity.
- Windows Server update services are installed for Patch Management in the entire campus.

### HIGHLIGHTS

- Structured Programming Systems Lab
- Object oriented Systems Lab
- System Software Lab
- Data Engineering Lab
- Multimedia and Scripting Lab
- Software Engineering Lab
- Computer Aided Design Lab
- Project Development Lab



- Central Antivirus server provides security for entire network.



## Transport

The Manav Rachna group has a fleet of luxury AC/Non AC buses providing transport facility to the students of Delhi-NCR. In addition to providing transport for local students, it runs inter-city shuttle transport from Faridabad, Gurgaon and Delhi to the campus. Regular transport services are available between hostels & the campus. MRU buses are equipped with all safety devices i.e. GPS, to track the bus location, Route, Speed etc. and Speed Governor to restrict the speed of the buses as per the Supreme Court guidelines, Fire Extinguisher and First Aid Kit. For the safety point of view, Buses of MRU board (at the time of departure from Campus) and de-board (after arrival at campus) the students inside the campus premises only. Students are allowed to board or de-board the bus at the scheduled stop only.

During end-semester exam days, apart from the regular routes, we also provide the shuttle service for Tughlakabad Metro Station, Delhi, Mathura Road (BadkhalChowk), Faridabad and PaliChowk (at Surajkund-Faridabad Road for Gurgaon Students) from the campus after examination is over so that the student's precious time can be saved. We also allot seat numbers to every transport user on the basis of first-come-first-serve (the student deposit the transport fee first, gets the seat first). Transport ID Card is valid for one Academic Session of the respective Institute. Transport fee is collected one time in advance for the whole academic session at the time of availing transport facility. The complete transport information i.e. Routes, Fee Structure, Transport Refund Policy, Transport Guidelines etc. is also available at the website of MRU.

## Hostel

There are separate AC and non-AC single, double and triple seater hostels for boys and girls, with well-furnished rooms along with facilities - TV, PCs, Telephone, wi-fi,

newspaper, RO drinking water, Hot water (winters and sports). Additionally, there is an ergonomically and aesthetically designed state-of-the-art hostel for International students. A well-managed & hygienic mess meets students' food requirements.

## **Sports Infrastructure**

Our major sports facilities include Varied Outdoor and Indoor Sports facilities including Basketball, Volleyball, Cricket, A 25 m Shooting Range, Table Tennis, Squash, Pool and Billiards, Soccer, 10 m. AC Indoor Shooting Range etc. Recently Manav Rachna has also added an Indoor state of the art, Sports Arena. The Arena has One Badminton Court, 4 Table Tennis Arenas, 4 Chess Stations & 4 Carrom Stations and it is open to all the Manav Rachna Students and Hostellers from 8.00 Am to 8.00 PM.

## **Manav Rachna Sports Academy**

Manav Rachna believes in integrating Sports with the curriculum to enable students to grow into well groomed personalities. For this purpose sports facilities common to all MREI have been created at MRIS 14. The Sports Facilities available at the MRIS campus are at par with the best and are complete with state-of-the-art infrastructure:

- Badminton, Shooting, Table Tennis, Carom, Chess, Volleyball, Basketball, Lawn Tennis, Swimming, Golf, Skating, Billiards, Soccer, Kickboxing.
- The best six synthetic indoor badminton courts in Haryana in association with Yonex.
- Taylor-Made Golf Academy
- Table Tennis in association with Stag.
- A Sports Fitness Centre which is fully equipped with state of the art facilities to meet the psychological, physiotherapy and sports training needs of the students.
- Shooting Ranges for budding shooters have been exclusively established under the guidance of ace shooters including Gagan Narang, Annuraj Singh and Anisha Khan.
- Soccer Academy in collaboration with BIFA
- Semi Olympic size Swimming Pool
- Medical facilities (Physiotherapy and Rehabilitation)

### **Healthcare facilities**

Manav Rachna Campus has a well equipped dispensary for first aid and minor medical services. The University has a well-equipped dispensary for first aid and minor medical services. The university has a qualified doctor and nursing staff on the campus to take care of the medical emergencies. The University also has two State-of-The-Art, well equipped ambulances to cater to any exigencies thus ensuring highest medical safety for the faculty and the students alike. Besides having the First- Aid room in the campus and a separate sick bay for boys and girls, there is a State of-the-Art Out Patient Department of Physiotherapy. The University's medical consultant is available for consultation between the specified hours on all working days.

### **Canteen & cafeterias**

MRU has well stocked canteen and cafeteria, Nescafe, Hunger Cure etc., which provide daily necessities to students in hygienic environment and good ambience.

### **Bank ATM**

A PNB ATM is located on the campus.

### **Power backup**

MRU is served by an independent HSEB feeder. In addition, standby power backup of 6.2MW is installed to ensure uninterrupted power supply to the entire campus including hostels.

### **Drinking water**

A central RO system supplies safe drinking water to the campus.

### **Air conditioning**

All classrooms, laboratories etc. are centrally air conditioned.