FORMERLY MANAV RACHNA COLLEGE OF ENGINEERING, NAAC ACCREDITED ‘A’ GRADE INSTITUTION
Declared as State Private University under section 2f of the UGC act, 1956

Make Your Professional DREAM A REALITY

ACADEMIC SESSION 2020-21
www.manavrachna.edu.in
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About MRU
Manav Rachna University (MRU) is a leading State Private University (established vide Haryana State Legislature Act No 26 of 2014 & under Section 2(f) of UGC Act 1956), and recognized by UGC, offering globally relevant education. MRU is listed on the official website of Government of Haryana. The University has evolved from Manav Rachna College of Engineering (MRCE), which was established in the year 2004, a NAAC accredited ‘A’ Grade institution ranked 10th among all the private engineering institutes of the country. The accreditations/rankings are testimonial to the trust of accrediting bodies in the quality of education being offered, a well-established teaching and learning process guided by the global best practices and a culture of academic excellence promoting research, innovation & entrepreneurship.

Approval by Regulatory Bodies
• All the engineering programs offered under the Faculty of Engineering, MRU are approved by the AICTE vide letter no. F.No. North-West/1-4262293227/ 2019/EO A dated 10.04.2019.
• All the integrated law programs offered by Faculty of Law are approved by the BCI vide letter No. BCI:D:799/2017 (LE/Std. 27/28.05.2017) dated 23.06.2017.
• The integrated B.Ed.Program (4 years), B.Ed. Program (2 years), B.Ed Special Education (Learning Disability) (2 Years) offered by Faculty of Education are approved by NCTE vide letter No. F.No. NRC/NRCAPP-10195/ 256th/ Meeting/2016/156765 dated 29.08.2016, letter No. F. No. NRC/ NRCAPP-10196/257th/ Meeting/ 2016/ 159545 dated 04.10.2016, letter No. 17-1565/B.Ed. Spl.Ed. (LD)/RCI dated 17th October 2019

Member of the Association of Indian Universities (AIU)
• Manav Rachna University is a member of the Association of Indian Universities (AIU).

QS I-Gauge Gold Rating
• MRU has been bestowed with QS I-Gauge Gold rating, MRU has been awarded Diamond rating in facilities and student employability. Modeled after QS Stars International, QS I-Gauge provides a unique 360 degree perspective to Indian Institutions.

Times Engineering Survey
• Manav Rachna University is among the Top 3 emerging Engineering Institutes of the country as per Times Engineering Institutes Survey 2019. It is also the second most promising and emerging institute for Placement and Research Capability.

NBA Accreditation
• The National Board of Accreditation (NBA) had accredited MRCE (now MRU) for its B.Tech.- Computer Science Engineering, Electronics & Communication Engineering and Mechanical Engineering in the year 2013 for 2 year.

NAAC Accreditation
• The National Assessment and Accreditation Council (NAAC) had accredited MRCE (now MRU) for a period of five years with a CGPA of 3.10 on a four point scale at A Grade, valid from 16.09.2011.

Nodal Centre for Virtual Labs
• Manav Rachna University is declared as Nodal Centre for Virtual Labs, in association with IIT, Delhi.

Collaborations
Manav Rachna University has collaborations with the leading universities and institutions both at global and national level for delivering the best education to its students. It has signed MOU with many industries as well as who are partnering in the design and delivery of various courses. Xebia, Quick Heal Academy, Altair, Design Tech, Diakin, IIT Delhi, MNIT Jaipur, Lahti University of Applied Sciences, Finland, Carlton University, Canada, Osh University, Kyrgyzstan are to name the few important academic and industry partners of MRU and the list is extensive.

Education in Frontier & Thrust Areas
MRU upgrades its curriculum to keep pace with the latest trends and keeps it recent and relevant. It has incorporated courses like Artificial Intelligence, Machine Learning, Data Analysis, Mechatronics, Robotics, Nanotechnology, Financial management, HR Management to name a few to impart training and prepare its students for leadership positions of tomorrow.

The academics at MRU is designed towards providing the students a strong background in fundamentals, an ability to translate it to real-life problems and a capacity to design, build and analyze different products, processes and systems. Guided by international best practices, the teaching-learning process ensures the development of Global Graduate Attributes as recommended by various professional bodies/ societies.

The academic process is outcome based and ensures development of the desired skill set. Choice Based Credit System provides flexibility to the students to take courses from the areas of their interest, be it Humanities, Sciences, Management, Technology etc. For active involvement of students, MRU has transitioned from teacher centric approach to learner centric education. Latest pedagogical approaches like active learning, collaborative and cooperative leaning, agile methodology ensure holistic development of graduates who understand the impact of their actions/ decisions on the society and environment. Through continuous evaluation system, the student is assessed & evaluated continuously throughout the duration of the course.

Strong academic system, facilitated by qualified faculty is also complemented by experts from Industry and premier institutions, supported by ICT and state-of-the-art infrastructure, make the education process an enjoyable journey for students.

University envisions developing Sustainable Development as a thrust area of Research and Innovation. The research training provided to our graduate students creates the next generation of leaders well-prepared to advance knowledge and transfer of technology. One of the significant aspects of education at MRU is research carried out at UG level. Several Live Projects are being given by Industry to the UG students to work on and come out with innovative solutions. Any new Knowledge created by the Students and Faculty through their research and innovation is disseminated through publishing of books, research papers in the reputed Journals and filing of Patents. The dedication and hard work of its faculty and students is acknowledged in terms of awards & recognition they receive at different forums.
“Education is not the filing of a pail, but the lighting of a fire.” This quote by WB Yeats beautifully expresses the odyssey of education and its significance in one’s life. I believe that knowledge is continuous and life long journey and should be rejuvenated from time to time by ceaseless efforts. Manav Rachna University, since its inception has always been the most important mode of disseminating the wealth of education from one generation to the other. It is indeed a matter of great pleasure and honour that I have taken up the baton of Manav Rachna University as its Vice Chancellor. Manav Rachna University is proud of strong and experienced faculty and staff, exceptionally brilliant students and a community that recognizes this campus as a vital educational, economic, cultural resource and a talent pool of our country.

The University is a platform for achieving the highest professional career goals as it provides a perfect setting of Teaching, Learning, Research and Community Service. We create opportunities in and out of the classroom for students, faculty and staff to work and learn together, promoting a student-centered atmosphere. The active learning pedagogy adopted at the university equip the students with problem solving capabilities, creativity, innovative thinking, entrepreneurial temperament with high morale, ethics, integrity and vision. We facilitate students to remain full of excitement, enthusiasm and experience that they shall cherish throughout their lifetime.

Our education is directed to transform our students into responsible and enlightened citizens, confident leaders in their chosen area of profession, independent thinkers, creative entrepreneurs and ethical human beings which has been the vision of its founder Dr. O.P. Bhalla. Student success is our highest priority - we offer a strong selection of academic and research programmes embedded with futuristic curriculum incorporating today's high-demand fields like Nano-Technology, Artificial Intelligence and Machine learning, Data analytics, Robotics to name a few, delivered through our knowledgeable faculty at this beautiful campus in NCR. The partnerships with many global universities provides, an opportunity to the students for international exposure and do the internships wherever they desire.

We are proud that our multi-pronged efforts help us to serve our students, who gain knowledge and skills that prepare them to live and work in a multicultural, globally challenging world.

To find out more about the MRU, our teaching and research strengths, our diverse networks and our vibrant campus please visit www.mru.edu.in. I look forward to your support and feedback in the near future to help us serving our students better.

Prof. (Dr.) I.K. Bhat
Vice-Chancellor,
Manav Rachna University
KEY FUNCTIONARIES

Prof. (Dr). Sangita Banga, M.Tech. (IIT Delhi), PGDBA (HR), PhD (MRIU) - Professor-Chemistry and Dean Academics. Formerly Lecturer at Lingaya's Institute of Technology & Management and Executive High Polymer Labs Faridabad. Total Experience: 21 Years.

Prof. (Dr.) Pradeep K. Varshney, M.Sc., Ph.D. (Delhi College of Engineering, University of Delhi), Prof-Chemistry, Dean Research & Applied Sciences-MRU, Former-Director-MRIC, Associate Director-FET, HOD Applied Sciences & Humanities at MRIIRS, Lecturer (PTC) at Delhi College of Engineering, Post-Doctoral Fellow at National Taiwan University & LG Elite Company, South Korea. Total Experience: 28 years of Teaching and Research.

Prof. (Dr.) Shruti Vashist, Dean Student Welfare & HoD Electronics and Communication. B.Tech (Nagpur University) M.Tech (Rajasthan University) Ph.D (MRIU) Formerly Professor Electronics and Communication dept. MRIIRS, Lingaya’s Institute of Technology and Management. Total Experience: 21 Years.

Dr. Babita Parashar, M.Sc. (BioSciences), M.Ed (Gold Medallist), PhD (Jamia Millia Islamia) - Dean, Faculty of Education & Humanities. Former Associate Professor, Dept. of Teacher Education, NOUN, Lagos. Total Experience: 17 Years.

Prof. Jose Verghese (Professor Emeritus), B.A., B.Ph., LL.B, LL.M., Ph.D (Delhi University), Former Member of Academic Council in many Institutions of National repute including NLSIU, Bangalore, NLU, Jodhpur, HNU, Raipur (Ex-OFFicio), Central University, Gujarat, Sikkim Central University, AP State Law University and Jain University, Bangalore etc. Total Experience: 49 Years.

Prof. (Dr.) Pradeep K. Varshney, M.Sc., Ph.D. (Delhi College of Engineering, University of Delhi), Prof-Chemistry, Dean Research & Applied Sciences-MRU, Former-Director-MRIC, Associate Director-FET, HOD Applied Sciences & Humanities at MRIIRS, Lecturer (PTC) at Delhi College of Engineering, Post-Doctoral Fellow at National Taiwan University & LG Elite Company, South Korea. Total Experience: 28 years of Teaching and Research.

Prof. Jaideep Singh, LLB (University of Delhi), MSW (Agra University) - Director Industry Interaction. Formerly at the Taj Group of Hotels & Jaypee Associate Ltd. in the capacity of Head HR and Corporate Head HR respectively. Trainer at NIAR, LBSNAA Mussoorie and IICM Ranchi. Total Experience: 35 Years.


Dr. Parul Jhajharia, Ph.D (University of Rajasthan)- Dean, Faculty of Management & Humanities. Former Director-HR, Consultant and a Corporate Trainer, Navneet Industries, Jaipur, Professor and Additional Director at Amity College of Commerce and Finance, Amity University, Noida. Total Experience: 23 Years.

Ms. Hanu Bharadwaj, M.Tech., M.Phil, Pursuing Ph.D - Associate Professor & Head Computer Science & Technology, Formerly Lecturer at DAV Institute of Management, Faridabad. Total Experience: 18 Years.

Mr. Ajay Thomas, LLM (National University of Singapore), LLB (Goa University): Director - Faculty of Law Independent Arbitrator since Jan 2017, Formerly, Vice Chairman, ICC International Court of Arbitration's India Arbitration Group; Director & Registrar, London Court of International Arbitration-India; Counsel & Head (South Asia Desk), Singapore International Arbitration Centre (SIAC), Singapore Total Experience: 16 Years.
Dr. Sujata Nayak, M.Tech. (CCSHAU Hissar), Ph.D (IIT Delhi)- Professor & Head, Mechanical Engineering Department. Former Project Scientist (IIT Delhi).
Total Experience: 10 Years.

Dr. Deepa Arora, Ph.D. (Jamia Millia Islamia), Associate Professor & Head, Mathematics Department.
Total Experience: 14 years

Dr. Jaiparkash (M.Sc., NET, Ph.D) Associate Professor & Head, Physics Department.
Total Experience: 17 years

Dr. Sudhish Kumar Shukla, Ph.D. (IIT-BHU Varanasi) Post-Doc (North West University South Africa) Associate Professor & Head, Chemistry Department.
Total Experience: 13 years

Dr. Versha Vahini, B.A. LL.B., LL.M., Ph.D (Competition Law- Indian Law Institute, New Delhi)- Associate Professor and Head, Faculty of Law. Former Assistant Professor, National Law School of Indian University, Bangalore & Asst. Professor, Indian Law Institute, New Delhi.
Total Experience: 19 Years.

Dr. Rashee Singh, M Ed, MA-Sociology, NET (Education), Ph D (Education) Head, Department of Education & Humanities. Formerly worked with CARA Amity University Noida.
Total Experience: 11 Years.

Prof. (Dr.) A. K. Gupta, M.Sc., M.Tech., Ph.D, IIT Delhi - Professor Chemistry and IQ AC Coordinator. Formerly at Indian Oil Corporation Limited, Research & Development Centre, Faridabad and J K. Synthetics Ltd. R&D Centre, Kota.
Total Experience: 39 Years (Teaching & Research).

Dr. Haider Abbas, Ph.D (Jamia Millia Islamia), Professor Physics Department. Formerly at Echelon Institute of Technology, Faridabad.
Total Experience: 13 Years.

Dr. Sushmitha Ray, Ph.D in Computer Science (Europe) - Professor, Computer Science & Technology Department. Former Senior Training Faculty at Tech Mahindra, responsible for conducting training for Mid & Sr. level IT Professionals.
Total Experience: 29 Years.

Dr. Geeta R Thakur, Professor Head, Academic Staff Leadership Institute Head (Officiating), Centre for Peace and Sustainability PhD, M.Com, M.Ed. NET SET PG DED
Experience: 18 yrs
Research Areas: Peace education, e-learning, Educational management and leadership, Innovative instructional practices

Dr. Geeta R Thakur, Professor Head, Academic Staff Leadership Institute Head (Officiating), Centre for Peace and Sustainability PhD, M.Com, M.Ed. NET SET PG DED
Experience: 18 yrs
Research Areas: Peace education, e-learning, Educational management and leadership, Innovative instructional practices
ACADEMICS@MRU

MRU provides its students graduate a conducive environment with focus on developing global attributes. MRU works towards educating students to embody holistic knowledge, inspire critical & innovative thinking, possess dynamic, verbal as well as written communication skills. Newly Initiated Manav Rachna Life Skill Programme (MRLSP) is a strategic initiative to provide a rich nurturing ground for honing the life skills of students.

MRU students enjoy the facilities available on the campus through Innovation and Incubation Centre (to convert ideas to prototypes and incubate startups), Career Development Centre (to polish the edges of personality and facilitate transformation from a graduate to a professional), Corporate Resource Centre (to build relations with industries and facilitate placements) and Manav Rachna Centre for Foreign Language (a Centre offering bouquet of courses/ certifications in Foreign Languages) and many other initiatives.

The Teaching Learning @ MRU

Teaching Learning process at Manav Rachna University is aimed at achieving the programme objectives by working towards the goals that incorporate new knowledge, behaviour and skills which adds to student's experience. University strives to motivate students by engaging them in active learning which ensures their development and success. The new pedagogies followed by the university include a range of activities both inside and outside the classroom for holistic development of the student. The university uses various strategies, some of these are:

(i) Visualization,
(ii) Cooperative Learning
(iii) Inquiry based instructions
(iv) Project based learning
(v) Technology in Classroom
(vi) Engagement of experts from profession
(vii) Industrial Visits etc.

Such approach helps in implementing the Outcome Based Education, The University has adopted a Choice Based Credit System (CBCS) where a student has the flexibility to choose the courses of his choice and pursue his passion along with the degree for which he/she has registered. It also gives the learner a choice to decide about the pace at which he/she would like to progress. Such a system also provides an opportunity to study in any other University in India or abroad and earn credits.

Besides, MRU allows learner to earn credits through internships in an industry for a full semester or more.

University encourages and facilitates the concept of learning by doing. Such an approach encourages and nurtures creativity by working on various multidisciplinary areas. (like robotics, artificial intelligence, mechatronics nanotechnology embedded systems, VLSI etc.) which are futuristic and emerging areas in science & technology. The courses in engineering disciplines have been designed by the experts from academia and industry jointly and many of these courses are delivered jointly as well.

MRU provides opportunity to undergraduates to venture into research and development areas which lead to innovations, patents, publications and copyrights and get an opportunity to participate in national and international competitions.

Standards are facilitated to start their ventures and have an opportunity to be COE of a company while they are still studying (earn while you learn)

- Collaborations and Networking: Develop and share with various national and international bodies/chapters like IEEE/SAE, ASME, ITE, IUCCE etc. and get an exposure of cross-cultural skills.
- VR/AR: The simulations through virtual reality and augmented reality build the psychomotor skills of students. Such an approach inculcates the following 21st century skills among the students:
  - Application of knowledge
  - Creativity, critical thinking and innovation
  - Problem solving skills for complex situations
- Use of industry standards
- Team work
- Sustainability
- Leadership and accountability
- Developing design skills using latest software etc.

Some of the highlights of MRU Academic programmes are:

- Outcome Based Education:
  - What can one achieve?
- Choice Based Credit System (CBCS):
  - Learn at one's own pace: Flexibility to register for lesser or higher number of credits
  - Learners' choice of Courses: Flexibility to pick & choose courses from different disciplines
- Multi-disciplinary Approach:
  - Small core and large elective basket,
  - Innovative project development with multi-disciplinary teams.
- Emerging/Futuristic courses:
  - Students' exposure to emerging technologies/sciences/issues in the area.
  - Use of latest software
  - Simulations to understand basic science behind any engineering phenomenon
- Research, Development & Innovation:
  - Early exposure to research field
  - Propose an idea and get funding to shape it;
  - Present the innovations in best international and national competitions.
- Oportunity to pursue master's and doctoral work in the university or at other universities with whom MRU has tie up.
- Learning by Doing:
  - Major stress on Laboratory component in courses.
  - Compulsory summer training every year;
  - Internships, Workshops,
  - Project based learning,
  - Intense industrial/professional exposure is an intricate part of the programmes.
- **Global Graduate Attributes:**
  - Programme design and delivery ensures development of desired Graduate Attributes (GAs)

- **Self Learning, Exploring & Networking:**
  - Through theoretical and experimental methods.
  - Collaborations with global universities and get an exposure of cross-cultural skills.

- **Virtual Reality/Augmented Reality:**
  - Build the psychomotor skills of students.
  - Share and grow with international and national technical communities through Chapters of International professional bodies like IEEE, SAE, ASME, IUCEE etc.
  - Build prototypes in Virtual labs, using modern software.

- **Holistic Development & Life Skills Programme:**
  - Person’s emotional, social, ethical and creative potential through soft courses.

- **Environment & Sustainable Development:**
  - Key component of all programmes
FACULTY OF ENGINEERING, MRU

Faculty of Engineering at MRU comprises departments of Computer Science and Technology, Mechanical Engineering and Electronics and Communication Engineering.

The work culture at Faculty of Engineering has been primarily motivated by the need to produce engineers who are capable of addressing the global challenges of the 21st century. So the major impetus here is to develop the latest skills of critical thinking, creativity, collaboration, and communication, along with sound content knowledge and expertise. It strives to build understanding across and among academic subjects as well as contemporary interdisciplinary themes. It emphasizes on deep understanding rather than shallow knowledge. The Faculty ensures students’ involvement and interaction with the real world data, tools, and experts, they will encounter in the campus, on the job, and in life, as it firmly believes that students learn best when actively engaged in solving meaningful problems. The students are facilitated to master the skills, knowledge and expertise to succeed in work and life in the present scenario. Therefore, all the departments of the Faculty of Engineering are extensively equipped with the latest state-of-the-art facilities. It conducts extensive research program to facilitate Doctorate of Philosophy in all the areas of Engineering.

The entire Faculty has a pool of highly qualified faculty members having rich experience in teaching, research and industry in their respective fields. The faculty undertakes various in-house and sponsored research activities. Every year a number of research papers are published in National & International Journals. Paper presentation by its faculty members at National & International Conferences of repute has become one of its key features. The Faculty of Engineering is committed to offer the best trained professionals for the corporate world and a successful career for its students as per their competencies. For this, it has a team dedicated and responsible for interfacing with the industry and facilitating students in securing best placements. It has collaborations with the world acclaimed organizations like Xebia (a Dutch International group), Infosys (Information technology consulting company), Daikin India Ltd. No wonder that MRU alumni have successfully gone on to work in top organizations worldwide. Moreover, top corporate employers have visited the Campus for recruitments, with students being placed across all sectors like Manufacturing, Finance, Banking, Telecom, InfoTech, and Pharmacy.

Specialized Programs in Association with Xebia:

Department of Computer Science & Technology offers specialization in Artificial Intelligence & Machine Learning and Cloud, DevOps & Automation, in association with Xebia. Xebia is an IT based Dutch organization which specializes in Agile Methodology, Machine Learning, DevOps, Big Data/Data Science, Mobile, Cloudification and Data Centre Automation. Apart from services, Xebia has a strong suite of products under the Xebia Labs brand. Specialization in Artificial Intelligence & Machine Learning - the curriculum is created with intent to develop strong Mathematical & Statistical grounding in the area of Artificial Intelligence & Machine Learning which include Neural Networks and Artificial Intelligence. This enables analysis & interpretation of different forms of data and use latest technologies & tools to build & train machines. Specialization in Cloud, DevOps & Automation - the curriculum is designed to enable students collaboratively learn latest tools and technologies. The course covers the core principles of Cloud Computing, Full Stack Development with understanding of Design Thinking, Agile Software Development practices, DevOps, Automation, Modern Web & Mobile Architecture and IoT.

As per the Agile practices followed in industry for software development, Agile Classroom has been designed for these two specialized programs. Students sit & work in teams and get the experience of work culture of IT industry. Various Agile data visualization techniques are being used in the classroom to monitor the progress of the courses and students.

Specialized Programs in Association with Quick Heal:

Department of Computer Science & Technology offers specialization in Cyber Security & Threat Intelligence, in association with Quick Heal. Quick Heal is leading provider of security software products and Solutions since 1995, under the widely-recognized brand names ‘Quick Heal’ and ‘SEQRITE’ across various operating systems and devices. Quick Heal Academy (QHA), a division of Quick Heal Technologies Limited is a premier institute engaged in supporting and securing the cyberspace. QHA is committed towards imparting cyber security education programme globally with an objective of building a talent pool of cyber security professionals.

The curriculum of this specialization is designed to develop security engineers to meet the demand of the growing cyberspace. Cyberspace or to say world is borderless and actions in the cyberspace can be anonymous, this feature of anonymity is being exploited by adversaries for perpetration of crime in the virtual world. The specialization covers the core principles of Cyber Laws, Cryptography, Blockchain, Malware Analysis, Cyber Threat Intelligence etc. One of the objectives of the National Cyber Security Policy is “to create a workforce of 5,00,000 professionals skilled in cyber security in the next 5 years through capacity building, skill development and training”. 

As per the Agile practices followed in industry for software development, Agile Classroom has been designed for these two specialized programs. Students sit & work in teams and get the experience of work culture of IT industry. Various Agile data visualization techniques are being used in the classroom to monitor the progress of the courses and students.
About Smart Manufacturing and Automation

21st century manufacturing facilities have ushered a new wave of manufacturing with an amalgamation of technologies from advanced robotics to fully integrated production systems. With smart manufacturing, manufacturers are moving towards a new level of interconnected and intelligent manufacturing system which incorporates the latest advances in sensors, robotics, big data, and controllers.

To keep pace with the evolution of these "smart factories" requires highly skilled and nimble engineers to manage the increasing complexity and shorter mind-to-market product cycles. In today's world of specialization, the conventional Mechanical Engineering curriculum incorporates specific areas of focus such as design; manufacturing, thermal, renewable etc. needs to be given a relook.

To tap into this potential demand, Institution proposes to introduce new specialization module for Mechanical Engineering students in the area of Manufacturing and Automation. Advanced knowledge of automation techniques such as robotics, 3D printing, CNC, EDM, Smart Manufacturing Processes, Production and Development along with relevant software technologies would be part of the specialization course. These additional specializations would be aimed to give our students a competitive edge especially in industries such as Auto, Auto Ancillaries, Telecom, Railways, Aerospace, Heavy Engineering Industries etc.

The above proposal to offer specialization in Smart Manufacturing and Automation to the Mechanical Engineering students is in coherence with aim of the current government to develop skilled manpower which is ready to be employed in various sectors of the economy especially manufacturing to boost India's manufacturing sector. Smart Manufacturing techniques are the need of the hour and we need to adapt to these new methods as early as possible.

Electronics and Computer Engineering (In association with Truechip):

Department of Electronics & Communication is in process of associating with Truechip for B. Tech ECE specialized program* in VLSI technology, IP testing and verification. Truechip, the Verification IP specialist, is a leading provider of Design and Verification solutions which help to accelerate your design, lowering the cost and the risks associated with the development of ASIC, FPGA and SOC.

Truechip is a privately held company with a global footprint and sales coverage across North America, Europe and Asia. Truechip has been serving customers since several years in VLSI with a strong and experienced leadership. Truechip provides industry's first 24x7 support model with specialization in VIP integration, customization and SOC Verification. The curriculum is designed using latest technology and tools used in IP Verification. Course contents has been reviewed with multiple industry experts to ensure that the students are industry ready.


Take-aways by student:
(i) Get trained from experienced engineers from the Industry.
(ii) Industry level experience on individual Projects.
(iii) Hands on training on industry leading tools from Mentor Graphics/ Cadence/ Synopsys Tools.
(iv) Verilog, System Verilog and UVM based Training.
(v) Confirmed Employment Program for VLSI Design
(vi) Average Package: 4 Lakhs per annum* 

Altair Centre of Excellence

Altair Centre of Excellence is a joint venture of Manav Rachna University, Design Tech and Altair Engineering. The centre aims to carry out R & D work by providing a software and cloud solutions in the areas

*Note: Fee under the specialized program with Truechip may increase approximately by 25-30%.
of product development, high performance computing (HPC) and data intelligence. Altair Engineering Inc., a global technology company that provides product design and engineering solutions, enterprise services and cloud computing. The centre provides exposure to both faculty members and students of MRU campus on latest developments in the field of simulation and optimisation of product design and structural analysis. The centre provides a lot of opportunities for students to carry out various projects and to flourish that, product design courses have been incorporated in the Undergraduate and Post Graduate curriculum of students.

Centre for Energy
The centre was established with an aim for carrying out R&D work and provides training in area of energy related instrumentation, control and optimization systems. The centre provides infield exposure to both faculty members and students at MRU campus on the latest developments in the field of solar energy, wind energy, chemical energy etc. Its applications especially commercial applications in the area of energy generation, storage and deployment. The centre brings a lot of opportunities for students to carry out projects and to flourish that, few experiments have been added in the curriculum of students.

The Faculty of engineering is committed to increase its research activities by focusing on engineering-led multidisciplinary growth areas that target several global challenges, including machine learning, future manufacturing, internet of things, energy harvesting, cyber data and urban energy systems.

Faculty of Engineering Strives to make engineering an attractive and exciting career choice that appeals to a wide range of applicants, and the impact and translation of our academics and creating research environment is fundamental to this goal. Providing strong support to our academics allows us to focus on translating our research outcomes into products, processes and services that benefit wider society and face global challenges. In today's world of specialization, our existing engineering curriculum incorporates latest trends such as Machine Learning, Digital Transformation, Cyber-physical systems, Industry 4.0 viz. various smart manufacturing processes, advanced automation techniques. To tap this potential demand, the Institution has introduced new specialisation programs for Engineering in the areas of Data Science & Machine Learning, Digital Transformation, Cyber-physical systems, Internet of Things, Embedded Systems, Smart Manufacturing processes & Advanced Automation techniques.

THRUST AREAS OF RESEARCH
CSE: Soft Computing and Big Data, Data Mining and Machine Learning, Speech and Pattern Recognition, Software Reliability and Mobile Ad-hoc Networks.
ME: Product Development & Design, Tribology, Supply Chain Management, Thermal Engineering, Smart Manufacturing and Industrial Automation

PROGRAMMES OFFERED
Department of Computer Science & Technology
• B.Tech in Computer Science & Engineering (4 Years)
  Specialization in Artificial Intelligence & Machine Learning, in association with Xebia
  Specialization in Cloud, DevOps & Automation, in association with Xebia
  Specialization in Cyber Security & Threat Intelligence in association with Quick Heal.

• B.Tech Lateral Entry in Computer Science & Engineering (3 Years)
  Specialization in Data Science & Machine Learning, in association with Xebia

Specialization in Digital Transformation Engineering, in association with Xebia
• B.Tech (4 years) Mechanical Engg. (with Specialization Smart Manufacturing and Automation)
• M.Tech in Mechanical Engg.
• Ph.D in Mechanical Engg.

PROGRAMMES OFFERED
Department of Mechanical Engineering
• B.Tech (4 Year): Electronics and Computer Engineering.
• B.Tech Lateral entry (3 Years): Electronics and Computer Engineering
• M.Tech in Electronics and Communication Engineering with specialization in Embedded System & VLSI
• Ph.D. in Electronics & Communication Engineering

For detailed information, kindly visit: https://manavrachna.edu.in/course/electronics-computers-engineering-mru/
FACULTY OF APPLIED SCIENCES

The Faculty of Applied Sciences at MRU comprises of three departments: Physics, Chemistry and Mathematics which are committed to excellence in education and research. The faculty has strong core curriculum complemented by a basket of electives. It strives to create and sustain an environment for learning, enquiry and generation of new ideas to aid the education of future engineers and science graduates.

The Faculty of Applied Sciences takes pride in its decorated faculty members, who are not only groomed in premier institutes of the country but also are highly experienced, dedicated to their respective specialized thrust areas, actively engaged in quality research and continuous upgradation of their pedagogical skills and they firmly believe in establishing democratic relationship with their students as well.

The pedagogical philosophy of the faculty is based on ‘Learning by doing’ strategy. It facilitates the students to develop strong fundamentals of the subject(s) and the skills required for solving scientific, technical, analytical and mathematical problems. The same is achieved through the well-defined teaching and learning process that includes problem solving sessions, open discussions during tutorials, seminars, workshop, projects etc. The faculty equips the students with latest techniques for solving the problems manually as well as with the help of software. In addition, faculty of applied sciences is highly committed to nurture the research acumen in students.

THRUST AREAS OF RESEARCH

Physics: Nanotechnology, Nanoscience, Multiferroics materials, Organic Solar Cells and Solid State Physics, Simulation of Laser-Plasma acceleration, Photonics

Chemistry: Green Chemistry- Green synthesis of biofuels, Heterocyclic Compounds, Electrochemical Batteries, Water Deoxification, Corrosion, Heavy Metal Toxicity, Polymer Chemistry, Composites Polymer electrolytes, Superabsorbent Polymers/Hydrogels, Catalysis, Molecular Modeling, Detoxification by Natural Adsorbents


PROGRAMMES OFFERED

• B.Sc. (Hons.) 3 Year Physics, Chemistry & Mathematics
• M.Sc. Chemistry 2 Year
• M.Sc. Mathematics 2 Year
• M.Sc. Physics 2 Year
• Ph.D. Physics, Chemistry & Mathematics

Project-based learning, summer training supplemented with internships at industry (Dr. Reddy’s, IOC R&D, NCB Sun Pharma etc.) & research Institutes (IISc, IIT Delhi, IUAC, DU, Jamia Hamdard, Inter University Accelerator Centre-New Delhi & IISER) help students to bloom the researcher within. Thus, the scientific temperament, critical thinking, data acquisition and evaluation skills along with effective communication and collaborative approach to problem solving are ingrained in students.

Faculty of Applied Sciences provides placement opportunities in diverse areas like teaching in colleges and schools, Civil services/Govt. Administration, Airlines and Railways, Scientists/Scientific officers in various Government and Private R&D Organization like, DRDO, NPL, CSIR, TIFR, ISRO, IIG, Laser industry, IBM-Research lab etc., Industry, Publication House, Banking, Technical officer in Hospitals/Research Labs.

No wonder, the students are placed in companies of national and international repute like Accenture, Federal Bank and Agilent Technologies with a highest package of 8.65 LPA.

For detailed information visit us at: http://manavrachna.edu.in/university/
DEPARTMENT OF MANAGEMENT AND COMMERCE

The focus of the Department of Management and Commerce is to provide knowledge of the core disciplines as well as managerial skills with a strong base of language to its learners. The Faculty resorts to interdisciplinary, multi-disciplinary and trans-disciplinary approach to provide wholesome exposure to its students through diversified fields namely; Business Management and Economics, Behavioral Science, Entrepreneurship & Financial Management, Accounting, Communication Skills and Language. The curriculum and pedagogy of the faculty of Management and Commerce is industry driven and it has various collaborative programs with both National and International companies and professional associations of repute. The focus here is on hands on and experiential learning so that students acquire requisite knowledge and skills essential for 21st century managers to create a niche for themselves on global arena. It strives to create well-groomed, world-class citizens through an academic environment that emphasizes on communication skills to complement their professional expertise. It has a distinction to develop management professionals who are equipped with hard as well as soft skills to lead professionally and socially with pride and confidence. This holistic development is nurtured through various clubs, clans, and professional associations. The university is privileged to have distinguished group of faculty blended with corporate experience. Manav Rachna continues to draw faculty members from world’s finest institutions with driven work experience.

INDUSTRY ASSOCIATIONS
FIA, FSIA, AIMA, PHD Chambers, CREDAI, BMIC, FICCI, SIDBI, NIESBUD, NSIC, MSME, NEN, Miles Education

THRUST AREAS OF THE RESEARCH

PROGRAMMES OFFERED
Department of Management and Commerce offers specialized BBA programs

- BBA- Finance & Accounts
Graduates have opportunity to work as Financial Analyst, Management consultant and Performance Manager; Cost Accountant; Algorithm Executives; Investment Analyst; Cost Analyst; Internal auditor; Information Technology specialists (especially as applied to accounting)

- BBA- Entrepreneurship & Family Business

- BBA- Health Care Management
(supported by leading hospitals of NCR.) Curriculum has been devised keeping the current scenario where in a student gets the BBA degree along with 1 year of work experience. This is taken care of in three semesters wherein the students undertake around 10 months of internship during the II, IV and VI semester in collaboration with the leading hospitals of NCR: Asian Institute of Medical Sciences, Sarvodaya Hospital and Cygnus.

- BBA- Operations Management with specialization in
  Supply Chain Management
  Logistics Management
  Project Management
The Ph. D. Programme started in the year 2015. At present, 36 research scholars are enrolled in the programme and pursuing Ph.D. under the empanelled guides/mentors in the Department. The admission process under this programme is through a transparent system of entrance test accompanied by a panel interview. The minimum duration of submission of Ph.D. thesis is 3 years which maybe extended further to a maximum of 6 years subject to certain conditions.

**INTERNERSHIP SUPPORT**

The students of BBA (Department of Management & Commerce, MRU) have embarked on Internship programs in various verticals of Corporate. The Department Internship & Placement vertical arranged for several prestigious companies like Amazon, Larsen & Toubro, Escorts, Axis Bank, Testspan, Decathlon, Coca-Cola, Keerans, Lifelong group of companies, Shiprocket, IEMS Global services, Visit Health, SD gaming etc.

**PLACEMENT SUPPORT**

Students are supported to develop their capabilities and skills to make them employable. The Career Development Cell imparts training in Communication (Interpersonal and Intra Personal), Grooming, Negotiation, Group Discussion, Team Work, and Leadership.

The Corporate Resource Centre develops relationships with Corporate, NGOs, International Institutions and Government bodies to create career opportunities.

Students in MRU besides regular industry driven curriculum, are active participants in extracurricular activities like inter university competitions & research projects.

At MRU, the objective is to prepare leaders who go beyond conventional management skills, be it Management or Technology. Graduates are trained not only to be effective but to innovate. Manav Rachna seeks students who thrive on change and who strive to drive it to business success.

For detailed information visit us at: http://manavrachna.edu.in/university

**DEPARTMENTAL ACTIVITIES**

Department of Management and Commerce conducts various curricular and extra-curricular activities, workshops, Competitions etc to give an extra edge to the students. Several such activities have been held including Infrastructure and Health care summit, Entrepreneur Summit (for getting to know the pulse of entrepreneurship from the market players themselves), Real Estate Conclave (Interaction with Real Estate Entrepreneurs), Business on the Campus (for the purpose of understanding Business Life Cycle), Business Idea Competition (pitching Business Idea), Ad-mad-show, Open House Session, Business Day. Cultural events like Rangoli, Diwali celebration, Freshers and Farewell party and students of the department express their love towards their teachers by organizing Teachers Day celebration.

**WORKSHOPS/SEMINARS/INVITED TALKS**

To give a comprehensive world view to specific issues, several workshops and talks are organized in the Department for overall development of the students and the faculty members. Innoskill workshop, FIRO-B personality profiling, Happiness quotient workshop, A seminar on Creating competitive Business advantage, Case writing workshop and many more have been held in the past and the Department continues to follow the pattern.
THE FACULTY OF EDUCATION AND HUMANITIES

The Faculty of Education and Humanities at MRU is dedicated to develop an efficient team of educators, who are capable of optimal utilization of their potentialities as consequential facilitators. The department takes pride in possessing a faculty that is not only highly qualified, but also experienced in the diverse fields pertaining to them. The areas of the faculty specialization ranges from Special Education (Learning Disabilities), Language and Linguistics, Pure Sciences, History and Archeology, Public Administration, Economics, Guidance and Counselling to Soft Skills Development. Possessing an exemplary research background our teacher-educators ensure that the students are facilitated to imbibe a strong research -culture amongst them right from the undergraduate level to doctoral level. No stone is left unturned to acquaint them with the state of art labs and other resources.

The curriculum is designed as per the NCTE and RCI guidelines with a focus on innovative pedagogies. Value added workshops on mindfulness, yoga and holistic development, Indian Traditional Knowledge, e-learning and visual and performing arts are woven across the curriculum. The Humanities Vertical of the Faculty also nurtures Engineering and Science Students as per the AICTE guidelines through courses on World Peace and Sustainable Development to develop the students into Ambassadors of World Peace as Digital Professionals and Sensitive Global Social Beings. As they say, sky is the limit. At the Faculty of Education and Humanities, the wide ranging experience of the teachers and collaboration with MRCRC (Manav Rachna Corporate Resource Center) makes it possible to extend excellent exposure to students. The students are well equipped with the skill set to be employed in schools as well as in other allied areas such as Content Writing and Editing with Publishing Houses, Special Educators and Policy Planners with SCERT/NCERT, Educational Administration, Curriculum Planning, and Instructional Designing with Multi-nationals and Career Counselling.

Another feather in the cap of Faculty of Education and humanities in the Centre of Excellence in the name of “Manav Rachna Center for Peace & Sustainability” (MRCPS) is established with the vision to promote Peace & Sustainability to humanity. MRCPS is epicenter of academic endeavors, training, research, community awareness programmes in all spheres of peace and sustainability. The center would be the embryo for promotion of new approaches towards ensuring sustainable development and peace at local, national and global level. It has collaborated with Institute of Peace Research and Action (IPRA) involved in peace activities since last five decades. IPRA received financial support for the projects from Department of Education, MHRD, Indian Council of Social Science Research (ICSSR), Ford Foundation, National Council of Educational Research and Training, Department of Women and Child Development, and Department Of Social Justice and Empowerment, Government of India, UNESCO and Sir Dorabji Tata Trust, Mumbai for a more peaceful and secure world. Therefore the Centre has great milestones to achieve.

Thrust Research Areas

PROGRAMMES OFFERED
- Integrated B.Sc. B.Ed. 4 years
- Integrated B.A. B.Ed. 4 years
- Integrated Teacher Education Programme (Pre Primary-Primary) Science Stream 4 Years
- Integrated Teacher Education Programme (Pre Primary-Primary) Arts Stream 4 Years
- B.Ed. 2 Years
- B.Ed. Special Education (Learning Disability) 2 years
- Ph.D (Education)

*Subject to approval of NCTE

Internship opportunities for students

The internship programme at the Faculty of Education & Humanities is designed to expose students to different types of school set ups and community engagement. The students are associated for their internships with public schools in Delhi NCR, Manav Rachna International Schools, and Government Schools in Faridabad. Such experience paved their way to the merit based placements in the reputed schools across the country. Apart from the school internships, they also get added opportunities to work with NGOs like NIDAN, PRAYAS, PRATHAM etc. for community engagement. Besides, they are provided with ample opportunities for paid internships also.

Placements

To facilitate the maximum number of placements of the students, they are professionally coached through mock interviews on how to project themselves and face an interview. Industry interaction with the help of CRCMC enables the students to have a comprehensive knowledge of the available employment avenues. The facility of campus placements further accelerates the placement opportunities for them.

For detailed information visit us at: http://manavrachna.edu.in/university/
FACULTY OF LAW

The purpose of law is to secure for all, basic freedoms to cherish and opportunities to grow. Just law is a key to unlock just order in the society. Profession of law is one of the noblest and elite professions. It is intellectually challenging, financial rewarding and personally gratifying. Legal education is human science, which engages with basic human conduct, rationale and ideologies. Study of law involves fundamental purpose, rationale and instruments of law and its effect on human behavior and conducts in the society.

Manav Rachna Faculty of Law offers 5-year Integrated Honor Law Programs in three streams, namely B.A.LL.B. (H), BBA LL.B. (H) & B.Com LL.B. (H). Decision to study law in Manav Rachna University is one of the best, a student can make. Students here get copious opportunities to absorb legal principles and acquire legal & life skills. They study not only the BCI mandatory courses, but also add on courses such as environmental studies, foreign languages and seminar courses that swells their learning curve. The teaching pedagogy employed at faculty of law involves critical and case study methods, which makes students understand the basic philosophy and rationale behind the law. These methods help students develop sound critique and argumentation around law and legal issues. Tutorials, moot court exercises and departmental seminars ameliorate classroom learning through problem solving, role plays and staging. Students, through mandatory internships, get a real taste of what it’s like to practice law in its different forms and make informed choice on after-university legal career. Students at faculty of law also get opportunities to avail exchange programs with foreign universities, having collaboration with MRU.
ADVISORY BOARD
Faculty of Law has an Advisory Board chaired by Justice R. C. Lahoti, former Chief Justice of India. It boasts of former High Court judges, ASG, Former Law Secretary to the Ministry of Law and Justice, Senior Advocates, IAS officers and other legal stalwarts as its eminent members.

<table>
<thead>
<tr>
<th>ADVISORY BOARD</th>
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<tbody>
<tr>
<td>Hon'ble Mr. Justice R.C. Lahoti (Former CJI) Chairman</td>
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<tr>
<td>Hon'ble Mr. Justice Amitava Roy, Former Judge, Supreme Court of India</td>
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<tr>
<td>Hon'ble Mr. Justice K.K. Lahoti (Former Acting Chief Justice, Hon'ble High Court of Madhya Pradesh) Member</td>
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<tr>
<td>Hon'ble Mr. Justice Kailash Gambhir (Former Judge, Hon'ble High Court of Delhi) Member</td>
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<tr>
<td>Hon'ble Mr. Justice Rajiv Bhalla (Former Judge, Hon'ble High Court of Punjab and Haryana) Member</td>
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<td>Mr. Atmaram Nadkarni (ASG, Government of India) Member</td>
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<td>Mr. P.K. Malhotra, Former Law Secy., GOI</td>
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<td>Mr. Arvind P. Datar, (Senior Counsel) Member</td>
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<tr>
<td>Mr. Ravindra Srivastav (Senior Counsel) Member</td>
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<td>Mr. Parag Tripathi (Senior Counsel) Member</td>
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<td>Mr. Gourab Banerji (Senior Counsel) Member</td>
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<td>Mr. Sanjeev Sharma (Senior Counsel) Member</td>
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<td>Mr. Gopal Jain (Senior Counsel) Member</td>
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<td>Mr. Ashok Gupta (Senior Counsel) Member</td>
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<td>Mr. Vinay Bhasin (Senior Counsel) Member</td>
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<tr>
<td>Mr. Jasbir Singh Bajaj (IAS) Member</td>
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<tr>
<td>Mr. R. K. Bajaj, (Former Chief Commissioner) - IT Member</td>
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<tr>
<td>Mr. Sudhir Sharma (Partner, Luthra &amp; Luthra) Member</td>
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<tr>
<td>Mr. Anup Trehan (Partner, Access Law) Member</td>
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<tr>
<td>Mr. Shashank Garg (Partner, Advani &amp; Co.) Convener</td>
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EMERITUS AND HONORARY PROFESSORS
Faculty of Law is growing exponentially under the guidance of Prof. Jose P Verghese, Prof. Emeritus with Faculty of Law since inception. In addition, the presence of Honorary Professors is intensifying the learning experience of the students.

<table>
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<tr>
<th>HONORARY PROFESSORS</th>
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<tbody>
<tr>
<td>Hon'ble Justice R V Easwar (Former Judge High Court of Delhi) for Tax Law</td>
</tr>
<tr>
<td>Mr. P.K. Malhotra (Former Law Secretary, GOI) for Administrative Law</td>
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<tr>
<td>Mr. Arvind P Datar (Senior Advocate) for Tax Law and Constitutional Law</td>
</tr>
<tr>
<td>Mr. Parag Tripathi (Senior Advocate) for Constitutional Law</td>
</tr>
<tr>
<td>Mr. Gaurav Pachnanda (Senior Advocate) for Commercial Litigation and Arbitration</td>
</tr>
<tr>
<td>Mr. Vikas Pahwa (Senior Advocate) for Criminal Law</td>
</tr>
<tr>
<td>Mr. Chander Lali (Senior Advocate) for IPR</td>
</tr>
</tbody>
</table>

PROGRAMMES OFFERED
Programmes with Specialization
B.A.LL.B. (Hons) (5 Years) Constitutional Law and Crime & Criminology
BBA LL.B. (Hons) (5 Years) Business Law and Intellectual Property Rights Law
B.Com LL.B. (Hons) (5 Years) Law Relating to Finance and International Trade
LL.M. (1 Year) (Full-time: Any one of the Specializations)
LL.M. (2 Years) (Weekend classes; Any two of the Specializations) (1) Commercial Arbitration; (2) Constitutional Law; (3) Corporate Law
LL.M (4) Criminal Law
Ph.D in Law
CLAT score is adopted as part of the criteria for merit for admission to UG law programs.
LIBRARY - SHRI RATAN LAL LAHOTI MEMORIAL LAW LIBRARY

The law library of MRU has been adopted by the former Chief Justice of India, Justice R. C. Lahoti and is named after his father. The library contains a rich collection of Law books, Journals, SCC Manual, All India Reports, All England Reports inter alia other journals and authoritative texts. In the Digital Library, database of National & International journals and cases, including SCC Online can be accessed.

GOLD MEDAL

Law student of the year Medal - Freedom Fighter Shri Ratan Lal Lahoti Gold Medal shall be awarded to a Law Student of the year, for his/her overall academic performance and excellence in during the 5 years at Law Faculty.

INTERNSHIPS AND PLACEMENT

Internships afford students the opportunity to supplement theoretical knowledge with practical experience. Internship program is the hallmark of faculty of Law. The Law Internship & Placement Cell:

• Facilitates students in securing desirable internships
• Conducts rigorous pre-internship trainings & Post-internship evaluation and assessment
• Counsels students in developing their internship plans

• Develops relationship building with NGOs, Law Firms, Companies and independent Legal professionals, to secure placements for students.
• Some of our internship providers include Justice KK Lahoti, Justice Kailash Gambhir, Justice ML Mehta, ASG Office, NHRC, NGO Jagori, Kailash Satyarthi Foundation (Bachpan Bachao Andolan) CRY, PSL Chambers, Escorts Corp. Office inter alia other reputed law firms and legal professionals

Add on Courses and Trainings

Faculty of Law offers add on courses on variety of subjects, such as Foreign Languages, Personality Development, Cyber Law, IPRs, Computer Proficiency, Court Room exercises, Departmental Seminars, Law and Social Change etc. It also affords students opportunity to go to foreign universities on exchange programs. Students desirous of joining civil or judicial services may take the benefit of career guidance and special classes offered by MRU.

Centre of ADR

MR Centre of Excellence on Alternative Dispute Resolution is dedicated to conducting research, creating knowledge and disseminating information on ADR mechanisms. The CADR organizes training programs and workshops on arbitration and mediation for the participants. The CADR has an Advisory Board headed by Justice R. C. Lahoti former CJ and an executive committee steered by Prof. Jose P. Verghese.

CONFERENCES, SEMINARS AND INVITED TALKS

To give a comprehensive world view of the legal profession and specific issues, it is imperative to hold conferences, debates, seminars, workshops and invited lectures. Judges, accomplished professionals and acclaimed professors are invited to deliberate upon issues of contemporary importance and interact with the students, which helps them, develop critical perspectives and "out of books" thinking.

ACTIVITIES AT FACULTY OF LAW

Faculty of Law conducts copious co-curricular and extra-curricular events including workshops, street plays, Legal Aid Camps, Moot Court competitions, elocution contest, debate and seminar, law week, ADR BOOT camp sports & cultural events like Jus Fiesta and fresher’s day inter alia many other events. Students are taken to visit Parliament, Supreme Court, High Courts and other courts. Visit to legal institutions help students appreciate “law in formulation” and “law in action.”

For detailed information visit us at: http://manav Rachna.edu.in/university/
**DOCTOR OF PHILOSOPHY PROGRAMME**

Manav Rachna University is a multidisciplinary & interdisciplinary research driven University. University invite on-line Applications from the eligible candidates for admission to Doctoral (Ph.D) Programme as per UGC Minimum Standards and Procedures for Awards of M. Phil/ Ph.D Degree Regulations, 2016 dated 05.05.2016 published in the Gazette of India dated 05/07/2016.

**AREAS OF EXPERTISE AVAILABLE IN THE DEPARTMENTS**

Substantial research is being undertaken in the various faculties. In an endeavor to carry forward the research impetus, the University offers full time Ph.D. programmes in various Faculties. Broadly, the research activities are going on in the following main areas:


8. **Education**: Assessment and Evaluation, Educational Psychology, E-learning, School management and administration, Curriculum development, Value Education, Innovative Pedagogies, Research-Based Teacher Education.


*These are only indicative areas. Research can be pursued in any other area. No. of seats are dynamically contingent upon the number of available supervisors & other learning resources.

**DURATION OF PH.D. PROGRAMME**

1. Minimum duration for submission of Ph.D. thesis is three years, including coursework and a maximum of six years.

2. Extension beyond the above limits will be governed by the competent authority of University.

3. The women candidates and Persons with Disability (more than 40% disability) may be allowed a relaxation of two years for thesis submission in maximum duration. In addition, the women candidates may be provided Maternity Leave once in the entire duration of M. Phil/Ph. D as per the University Norms.

**PROCEDURE FOR SUBMITTING APPLICATIONS**

All applications must be submitted online. The applicant can download a copy of the submitted application form from the application submission portal and furnish hardcopy of the application form with photograph and all the documentary evidence in original (testimonials, certificates, publications, work experience and research/professional experience) at the time of interview. Incomplete applications will be rejected.

**ADMISSION PROCEDURE**

Admission to the programme shall be based on merit in entrance test and interview. Entrance Test is of 100 Marks, written test (70 Marks) of 90 minutes duration (MCOs) followed by Interview (30 Marks).

The written test shall comprise two sections, each with 50% weightage: Section A consisting Research Methodology and Aptitude (Logical Reasoning, Analytical Reasoning, Numerical Ability, Statistics), Section B is Subject Specific.

The candidates who have qualified UGC-NET (including JFK)/ UGC-CSIR NET (including JFK) SLET/GATE// M. Phil are exempted from written test. In case the Test is made mandatory for NET qualified candidates by the UGC, same shall apply on them.

**ELIGIBILITY FOR ADMISSION IN PH.D. PROGRAMME**

The admission to the Ph.D. programme would strictly be done on the basis of UGC M. Phil/Ph.D. Regulations 2016 and subsequent amendments dated 27th August & 16th October 2018. An applicant possessing any of the following qualifications shall be eligible to apply for admission to a Ph.D. programme of the University:

1. Master's degree or a professional degree declared equivalent to the Master's degree by the corresponding statutory regulatory body, with at least 55% marks in aggregate or its equivalent grade B' in the UGC 7-point scale (or an equivalent grade in a point scale wherever grading system is followed) or an equivalent degree from a foreign educational institution accredited by an Assessment and
Fee structure for PhD admissions 2020-21 for NRIS/ PIOs/ Foreign students

Ph.D Programs: Course Fee (One time) US $650, Research Fee (Annual) US $ 1800, Thesis Evaluation Fee (One time) US $ 650. In year 3 and onwards, Research Fee payable on Semester basis @US $ 900 till the date of final submission of Thesis.

It is further clarified that minimum duration for PhD is 3 years and hence a Research Scholar will be required to pay Research Fee of Rs. 70,000/- per annum for a minimum period of 3 years in two equal installments per year. If a Research Scholar submits his / her Thesis within 3 months from the completion of 3 years from the date of registration, he / she will be required to pay Research Fee only for 3 Academic Sessions aggregating to Rs.2,10,000/-. However, if the Research Scholar submits his/her Thesis after 3 months from the completion of 3 years from the date of registration, he/she will deposit the Research fee as applicable to the batch of that year.

Relaxation
The Faculty/Teachers and Non-teaching/academic staff of MREI shall be eligible for exemption in semester Fee depending upon the length of their service in the organization as under:
1. 5 years or more service: Rs.10000/- per semester
2. 3 years or more service Rs.5000/- per semester

No exemption shall be admissible if the service rendered in MREI is less than 3 years. The fee is subject to revision from time to time as decided by the University.
RESEARCH AND INNOVATION @MRU

Research plays a significant role in the process of conceptual thinking, learning and innovation. Since its inception, the Institution has been striving to achieve excellence in education and research in consonance with the contemporary and future needs of India through meaningful education, original research and leadership in technological innovation for the industrial growth of the Country. With the path-breaking innovations in both its curriculum & research, the Institution is rapidly gaining a legendary reputation globally. Innovation Clusters and Centre of Excellence are providing technology driven support which helps them in incubating business models as startups or spin offs to become student entrepreneurs for working towards Government of India policy of “Make in India”, “Stand Up India” and “Startup India”.

Taking the culture of research and innovation forward, team of Manav Rachna Innovation and Incubation Centre started working since 2011 to establish innovation labs in the area of Mechanical, Refrigeration & Air Conditioning in collaboration with Daikin India, Smart Energy, Computing, Materials for Environmental Sustainability (MES) and recently Centre for Product Design and development in association with Altair Engineering & DesignTech. These Clusters/ Centres are actively engaged in student's research projects by adopting interdisciplinary approach in addition to other activities like Competitions & Projects, Publishing, Sponsored R&D projects, Training in Advanced Areas or future technologies, Product Development, Collaboration & Consultancy & Patents & IPR. Through Research Integrated UG/PG Program, students are involved in research activities at undergraduate/Post graduate level and are mentored by faculty members. This partnership between faculty and students culminates in the form of scientific paper development of prototypes patents and winning various National and International level projects & competitions.

Some of the major achievements of the University are summarized below:

<table>
<thead>
<tr>
<th>Category</th>
<th>Total Nos.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Publications (Databases like Scopus / WOS)</td>
<td>1100 (214)</td>
</tr>
<tr>
<td>University h-index</td>
<td>20</td>
</tr>
<tr>
<td>IPR Filed / Published / Granted (INDIA / USPTO)</td>
<td>37</td>
</tr>
<tr>
<td>Startup Graduated / under incubation</td>
<td>5</td>
</tr>
<tr>
<td>Startups got funding from NewGen IEDC</td>
<td>4</td>
</tr>
<tr>
<td>Prizes Won / finalist (Microsoft Imagine Cup)</td>
<td>2015 / 2019</td>
</tr>
<tr>
<td>AICTE-SmartIndia Hackathon-2019 Prize won under Hardware</td>
<td>1</td>
</tr>
<tr>
<td>Other Competition Prizes won by the students</td>
<td>21</td>
</tr>
<tr>
<td>Top 20 teams in Singapore India Hackathon and</td>
<td>2019</td>
</tr>
<tr>
<td>IIC-MHRD Star rating for IIC 1.0</td>
<td>4 Stars amongst top 150 Universities</td>
</tr>
</tbody>
</table>

Research & Innovation Credentials of Faculty Members & Students

Research and Innovation Clusters (RICs)

Research and Innovation Clusters provide technology and innovation support whereas incubation helps the students to develop practical business models as startups or spin offs to become student entrepreneurs for working towards Government of India policy of “Make in India”.

The Innovation and Incubation Centre has two Research & Innovation Clusters (RICs), five Centers of Excellence (CEs), one IPR Cell and one Business Incubator (BI) which is supported by nine departments of the University. These units are actively engaged in research projects by adopting interdisciplinary approach in addition to other activities like Competitions & Projects, Publishing, Sponsored R&D projects, Training in Advanced Areas or future technologies, Product Development, Collaboration & Consultancy etc.

To facilitate the quality research, research clusters in the area of Material Science, Environmental, Atmospheric, Mechanical and Computer Science have been established. These are the close research groups who are active in research fields of common interest and also associate interested students to work on various problems.

Research Computing Cluster (RCC)

Computing cluster has been established in 2017 to usher and nurture dedicated student and faculty teams into research and innovation for fundamental problems in computing science and inter-disciplinary areas with projects and publications that have quality, impact and value to the growth of technology and human society. The following projects are undergoing in the cluster:
<table>
<thead>
<tr>
<th>Area</th>
<th>Project Title</th>
<th>Brief Summary of Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>React Native</td>
<td>APP development (Rental App)</td>
<td>Through this people can rent place to live for a particular amount of time.</td>
</tr>
<tr>
<td>IoT</td>
<td>Smart helper</td>
<td>A device which can help during a natural disaster</td>
</tr>
<tr>
<td>Cyber Security</td>
<td>Horus</td>
<td>Extending Previous Project</td>
</tr>
<tr>
<td>Game Development</td>
<td>Terrible Tetris/ Tetris War</td>
<td>New Concept Casual Game</td>
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Material for Environment Sustainability (MES) Cluster

Material for Environment Sustainability (MES) Cluster is to be a centre for knowledge generation through research in the frontier areas of new, economical and environmentally safe materials. The cluster will establish itself at National and International level, and will publish the research work relevant for societal needs and sustainable development.

IPR Cell

Intellectual property (IP) encompasses the expression of ideas, information and knowledge. IP includes not only discoveries and inventions but also music, literature and other artistic works, as well as words, phrases, symbols and designs.

Intellectual Property Rights (IPR) are the legal rights protecting the owners of IP. The first owner of IP is normally either the person who invents, authors or designs the IP, or his/her employer (depending on the contractual arrangements governing his/her work). Commercial exploitation of the IP can occur directly by the owner of the IP or by licensing the IP to be used by other companies.

Academic and Research Institutions are concerned with successfully managing projects and research initiatives and the protection of their IP Rights which will benefit all stake holders. Manav Rachna IPR Cell is governed by the University Intellectual Property Rights Policy.

Manav Rachna Business Incubator (MRBI)

Manav Rachna Business Incubator is an initiative towards nurturing the innovative instinct of the students, alumni and faculty of MREI. With an objective to cater to the needs of students and faculty members who are inclined towards research, innovation, novel ideas and to encourage research and entrepreneurship, MRBI is equipped with all types of design, fabrication, manufacturing facilities to facilitate the growth and success of startup and early stage companies. We at MRBI, also provide a good path to capital from angel investors, state governments, economic-development coalitions and other investors. At MRBI, business not only gets access to a potential buffet of capital choices, but also a host of intangible benefits including mentorship, expertise and networking.

MRBI offers integrated, customized Innovation-Based Incubation support services. It scouts for ideation for development of business concepts and works for inculcating skills and competencies through capacity building/ training programs for evolving enterprises. Regulatory, financial and administrative help form part of the services, and networking opportunities with potential investors, practitioners and collaborators are endless.
Startups supported@ Manav Rachna Business Incubator (MRBI)

Manav Rachna Business Incubator (MRBI) is nurturing and overseeing innovation and entrepreneurship at Manav Rachna Campus. With a rich tradition of incubation through bodies such as the 'NewGen Innovation' and 'Entrepreneurship Development Centre' MRBI has pioneered innovation among its young members of under graduate student community. Some of the projects that are under the various stages of incubation or have incubated from the University and are now established as Pvt. Ltd. Company are:

**Techno Planet Lab Pvt. Ltd.**
Technoplanet is a company working in education space to develop new age tools, technologies and programs to create engaging K-12 learning experiences with an ultimate objective to revolutionizing education. In 21st century, technological advancements are rapidly disrupting industries with new trends evolving like self-driving cars; digital shopping; virtual worlds; life on mars. Envisioning how these disruptions will play out in our children's lives opens up a whole lot of new questions, and necessitates paradigm shifts in how we are thinking about education today. They also offer equipments and solutions to setup the Atal Tinkering Labs as envisioned by NITI Aayog. [www.http://technoplanetlab.com](http://technoplanetlab.com)

Startups supported @ New Gen IEDC, Manav Rachna
- **Thap Krida:** The team started in January, 2018 have developed 3 games and published them on google playstore and apple appstore.
- **Vagabond Brains:** Vagabond Brains offers a solution to companies to stand out of the crowd through digital marketing services. Vagabond brains, incorporate all the digital marketing techniques such as SEO, SEM, content management to help the company experience the tactics of online business in terms of more visibility on the net and footfall.
- **Greenity:** The startup’s product 'Smart Chair' is an innovative step towards generation of electricity from non-polluting sources rather than from conventional sources of energy.
- **Coating Vala Solutions:** The team developed an extremely affordable surface protector machine for coating of floors and important equipment to protect them from dust and paints.
- **Ferrox Technologies:** An innovative ideology that aims at revolutionizing commercial and agricultural EV marketplace with development in EAUV [electric agricultural utility vehicle] and battery pack development for high voltage drivetrains.
- **Travel Gram:** A mobile application based community built for travelers and explorers to connect, share and explore co-travelers. Application would be available for android and apple users.
- **Smart Water Sprinkler:** An automatic water sprinkler to make watering and maintaining plants’ gardens easier for domestic and commercial places.
- **Car Simulator:** The team is developing economical DIY kits of a car simulator for enabling kids to understand how a car is driven while enjoying their play time.
Corporate Resource Centre at MREI engages with Corporates and enables students in fulfilling their dream to get a job offer through campus placements. The centre offers excellent infrastructure supports at every stage of the placement processes in arranging pre-placement talks, written test, group discussion, interviews etc.

CRC manages ongoing relationships with leading Corporates to provide guidance on latest trends, and employment & training opportunities through Industrial visits, Industrial training & corporate lectures etc.

CORPORATE RELATIONS & CAREER DEVELOPMENT CENTRE

Corporate Resource Centre at MREI engages with Corporates and enables students in fulfilling their dream to get a job offer through campus placements. The centre offers excellent infrastructure supports at every stage of the placement processes in arranging pre-placement talks, written test, group discussion, interviews etc.

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<table>
<thead>
<tr>
<th>Name</th>
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<td>Inderpreet Singh</td>
<td>CSE</td>
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TRAINING & PLACEMENT @ MRU
EMPLOYMENT ENHANCEMENT PROGRAMMES (EEPs)

Industry - Academia gap remains to be one of the most talked about factors in the employability scenario in the country. MRU not only provides a world of opportunities to students, but also aims at equipping them with the right blend of skills, to en-cash every opportunity that comes their way.

This requires educating students to embody holistic knowledge, inspire critical & innovative thinking, possess dynamic, verbal as well as written communication skills, quantitative & reasoning aptitude and thereby make them Global Citizens. Employability Enhancement is supported through various programmes spread across semesters, as an embedded part of every course:

1. Value Added Programmes: Parent Departments in collaboration with Corporate Relationship and Career Management Cell conduct trainings for the students with an objective of enhancing domain and soft skills of the students leading to enhanced employability prospects of MRU Graduates. The activities currently being performed are:
   b. Employability Augmentation: Conducting Employability Assessments recognized by a wide range of corporate houses.
   c. Employability Related Events: Improving the Group Discussion Skills of students and conducting crash courses and industry specific trainings before the start of the placement session to equip the students to handle placement opportunities.

INTERNSHIP & PLACEMENT OPPORTUNITIES

It's a dream for every student to get placed in reputed company. Experiential learning during mandatory internship at the end of every even semester makes the students ready for taking up real life challenges. During internship period students get the opportunity to upgrade their skills according to current industry trends. University collaborations with various Research Labs & Industries offers exposure to students on latest tools and technology used in industry. Students hone their skills ranging from technical, analytical critical thinking and managerial skills by working on live projects and prototype development.

Placement opportunities are plenty and endless. Excellent career paths are available to the graduates both at core and other general field. Corporate Resource Centre engages with Corporate and enables students in fulfilling their dream to get a job offer through campus placements. With the collaborative efforts of Departments and Career Development Center in honing the domain and soft skills, students are getting opportunities to be placed at government organizations and Industries of national and international repute. Some of the prominent industries where students join for Internships and have grabbed placements are listed below:
INTERNAL QUALITY ASSURANCE CELL @ MRU

Manav Rachna University (earlier Manav Rachna College of Engineering, was accredited by the National Assessment and Accreditation Council (NAAC, an Autonomous body of the UGC, Govt. of India) with ‘A Grade’) (a coveted achievement for an Engineering Institution in the State of Haryana) in the year 2011. In pursuance of its Action Plan for performance evaluation, assessment & accreditation and quality up-gradation of institutions of higher education, the National Assessment and Accreditation Council (NAAC), puts an emphasis that every accredited institution should establish an Internal Quality Assurance Cell (IQAC).

Vision of IQAC is to ensure quality culture at the Institutions by institutionalizing and internalizing all the initiatives taken with internal and external support. The prime task of the Cell is to develop a system for conscious, consistent and catalytic improvement in the overall performance by channelizing its efforts and taking measures towards promoting the holistic academic and administrative excellence of the units. IQAC at MRU is working for continual improvement in all processes leading to academic excellence. Some of these processes are teaching-learning and evaluation, research and development, student support system and their career progression.

Members of IQAC are drawn from various stakeholder groups including senior faculty, University administration, Industry representatives, alumni and students.
Strategies are evolved by IQAC for:

- Ensuring timely, efficient and progressive performance of academic, administrative and financial tasks;
- Relevant and quality academic/research programmes;
- Equitable access to and affordability of academic programmes for various sections of society;
- Optimization and integration of modern methods of teaching and learning;
- Ensuring the adequacy, maintenance and proper allocation of support structure and services;
- Sharing of research findings and networking with other institutions in India and abroad.

Some of the functions of IQAC are:

- Evolving quality benchmarks for various academic and administrative activities of the Institution;
- Creating learner-centric environment for quality education;
- Promoting participatory teaching and learning processes;
- Implementing changes based on feedback from students/parents/employers/alumni;
- Continuous updating faculty on various quality parameters of higher education;
- Development and maintenance of institutional database through MIS for the purpose of maintaining/enhancing the institutional quality;
- Periodical conduct of Academic and Administrative Audit and its follow-up;
- Organization of inter & intra institutional workshops, seminars on quality related themes and promotion of quality circles;
- Assistance in Curriculum enrichment as per latest technological advancements;
- Providing support to participate in national & international rankings & accreditations viz. NBA, NIRF, QS, ABET, ISO certification etc.;
- Collection and analysis of feedback from all stakeholders on quality-related institutional processes;
- Documentation of the various programmes/activities leading to quality improvement;
- Acting as a nodal agency of the Institution for coordinating quality-related activities, including adoption and dissemination of best practices;
- Preparation and submission of Annual Quality Assurance Report (AQAR) as per guidelines and parameters of NAAC.

Besides playing its sentinel role for quality control, IQAC has ushered in ambience where every stakeholder in MRU places a high premium on quality as its objective function and further value addition which accrues. MRU employs the vehicle of IQAC for an inexorable continuous quality improvement.

DEPARTMENT OF STUDENT WELFARE & STUDENT LIFE AT MRU

University life marks the beginning of one's career and requires one to make mental, physical and emotional adjustments. MRU's unique educational system ensures that student gains not just depth and breadth in his/her chosen area of specialization, but a holistic set of skills that will equip them to face the real world. At every stage, there will be opportunities to expand boundaries, platforms for collaboration and learning, and recognition for those who strive to excel.

The University believes in excellence and above all, to produce tomorrow’s leaders, mature well-rounded individuals who will lead, actively participate and contribute to society. Department of Student Welfare (DSW) is a student care and supervision center that serves as a liaison between students and administration. The Department also seeks to challenge students to become responsible and productive citizens of society and to support the University's educational and administrative goals to enhance or address aspects of the entire student experience.

The student chapters of IEEE, SAE, ISHRAE, ASME, GCNC, NEN at MRU makes the students aware of the emerging technologies and international trends in the field of Engineering, Sciences, Management and Humanities.

Students at MRU are very much involved in various community services like no one sleeps hungry, cleanliness drives, blood donation camps, creating awareness on health & hygiene, promoting education by teaching students at various Government schools and schools run by NGO's. All these activities are carried out in close association with Dr. O P Bhalla Foundation, Leo club under the advisory of Lion Club of Faridabad, Prakashdeep NGO and Datri blood stem cell donors' registry an organization that offers a dedicated service for blood stem cell donation. Student's participation in these activities instills in them the lifetime commitment of helping others and understanding their duty towards the society.

Students' participation in various activities of these clubs and their representation in National & International level competitions have brought many laurels to the University.

VARIOUS SOCIETIES/ GROUPS

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

Music Group “MOKSHA”- This group covers activities like solo, duet and group singing, jugalbandi, battle of bands, folk music, sufi, classical, Western music, instrumentals, parody etc. Students can also look forward to jamming sessions and music festivals.
Dance Group “RUDRA” - This group has woven in solo and duet dance performances, group dance, Western dance (salsa, jazz, street etc.), traditional and folk dance competitions/ festivals in its repertoire.

Literary Forum “REHNUMA” - This forum involves activities like debate and declamation, MUN, youth parliament, quiz and GK, poetry, article writing, book reviews, film reviews, literary festivals, TV anchoring and news reporting, panel discussions, storytelling competitions. There is enough to keep members busy.

Fine Arts Group “FALECIA” - This group brings out the artist in every student encouraging them to indulge in sketching, painting, clay modeling, pottery, cartoon and caricature making, tattooing, sculpture and rangoli. The Club plays an active role in the festival of arts, origami, etc.

Fashionistas “NOORA” - As the name signifies, this group is all about glamour and beauty, focusing its activities on hairstyling, beauty contests, ramp walks, best dress, crazy caps, fashion shows, display/ tableau competitions, fancy dress, character display (based on an era, writings), etc.

Photography Club - This cluster pampers students’ passion for photography, film making, video-graphy and photo walks. Workshops by canon, theme based photography and exhibitions are also a regular feature.

MANAV RACHNA RESURRECTION FEST once every year which is the biggest cultural event of the campus.

There are following 5 categories of activities to be looked after under every clan.
1. Sports- Sports Activities at Manav Rachna
2. Media - Photography, Documentary, Creating, Content for Print & Digital
3. Literary- Debate, Poetry, Declamation & Quizzes
4. Cultural- Music, Dance, Theatre & Fine arts
5. ISR- Community Services

THE ROLE OF THE CLANS

At the core, the Clan’s role is to create more fervent connections at MREI. The other roles the Clan structure will play are:
1. Facilitate an environment for students which promote academic excellence and improve personal development keeping the fun factor alive.
2. To promote friendship and respect amongst pupils.
3. To empower students and educator groups wherein they can collaborate in aiding the development of real life skills.
4. To create a sense of responsibility, loyalty and tolerance towards seniors, peers and the parent institution.
5. To be able to harness the talent; the ability to arrive at consensus of views and the ideas coming from a larger number of students.
6. And finally, to create healthy competition.

Manav Rachna has created a strong organizational structure for implementation of Manav Rachna Life Skills Programme (MRLSP) to ensure that this initiative is seriously conceptualized, driven and effectively executed across the university.
Achievement in Co-curricular Activities:

- Two students of Final year Electronics and Communication Ravi Kumar and Vansh Mudgil, Tarun & Abhijeet (ME 8th sem) were provided with the grant of 5,000 Rs for their project “Innovations RespirON” under Software category. They represented MRU on the problem statement of MSME at LPU nodal centre, during the Grand Finale of third edition (Software) of Smart India Hackathon- 2019, held on March 2 and March 3, 2019.
- MRU Students have been the winners of many Hackathons organized by various Institutions like: “TECHNOVATION”, on theme Security & Surveillance, VihanA 2.0, 24 hrs Hackathon organized by IEEE Delhi Technical University.
- Ashish Verma 3rd year Selected as the Lead of Developer Student Club and won cash prize of of Worth Rs 10,000/- along with internship offer from PAYTM and Online Cloud Credentials of Worth $1,000. Developer Student Clubs (DSC) is a Google Developers program Lead of Developer Student Club, held on 20th Feb 2019 organized by Developer Student Clubs (DSC)
- Five teams from Computer Science and Technology department, participated in Makeathon 2019 on organized by Manav Rachna Innovation & Incubation Center in association with Texas Instruments and won many prizes in different categories.
- Akanksha Ahuja (B.Tech. CSE 8th sem) got selected under the Student Technical Program (Feb - July 2018) for her Final Semester Internship from CERN, Geneva.
- Akanksha Ahuja, was selected as semi-finalist in the competition “MIT Climate colab 2017” presenting the project “From Agro-Wastes to a Sustainable income”.
- Nishu Goel, B.Tech. IT 2018, was invited as an international speaker to talk on ‘Custom Directives in Angular’, at ng-Nepal Angular Conference 2018, held on 21st July 2018, at Yellow Pagoda Hotel, Kantipath Marga. She was also selected for the International Citizen Service (ICS) Programme by Voluntary Service Overseas (VSO).
- Varnita Jain (B. Tech. CSE 5th sem) was offered a 16 weeks internship at Coding Ninjas. Varnita also got selected as ‘Campus Ambassador’ for ‘Coding Ninjas’.
- Team “TECHSPIRITS” comprising Vansh Mudgil, Tarun & Abhijeet (ME 8th sem) participated in Valeo Innovation Challenge 2017 with their project “Klodo” named ‘Transparecy’ he won the first prize of $2,500 to turn his ideas into a reality. He also got the opportunity to attend six weeks of leadership training into a reality. He also got the opportunity to attend six weeks of leadership training.
- Roopam Sharma (CSE) got selected for “India’s top innovators under 35” India Edition, organized by Mint, the financial daily from the stable of HT Media Ltd, along with World Citizenship: 3rd position. Finally, the team under innovation category, team Eyeluminate represented India in the International finals of Imagine Cup, held at Seattle, USA.
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- Team Eyeluminate of MRU emerged out as winners of the Yahoo Accenture Innovation Jockey’s Season 4 in ‘Cognitive Computing and Internet of Things’ category. Two other projects developed by MRU students also won the ‘Popular ideas’ award.
- Team Dexters comprising of Aakash Mudgil, Tarun & Abhijeet (ME 8th sem) were provided with the grant of 5,000 Rs for their project “Klodo” during National Finals of Microsoft Imagine Cup, 2016.
- In Microsoft Imagine Cup, 2015 National Finals three teams in three different categories emerged out as winner: Gaming: Ist Position, Innovation: Ist Position and World Citizenship: 3rd position. Finally, the team under innovation category, team Eyeluminate represented India in the International finals of Imagine Cup, held at Seattle, USA.
- Team Dexters was declared the winner for EngiNX 2014 - Engineering for Next Generation an innovation competition organized by TCS. Team Dexters for its innovation Respiron won1st prize in the Yahoo Accenture Innovation Jockeys Season 3.
- Dhruv Dangi (CSE) participated in an online competition Yureka “Apps for YU Challenge” organized by YU from Micromax, inviting Indian developers of all age groups to make apps for Cyanogen OS (Android). For his app named ‘Transparecy’ he won the first prize of Rs 1,00,000 /- (One Lakh).

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Student Participation in Conferences

• Ms. Diksha Jasrotia, student of M.Sc. Mathematics presented a research paper entitled Literature Review on different techniques for better feasible solution of Transportation Problem at the 1st International Conference on Computer Algebra: Applications in Engineering organised by Anand International College of Engineering, Jaipur, (Supported by CIMPA, France) from March 5 - 7, 2019.


• Gurpreet and Ravi Dutt, students of ME Department, 8th Semester, attended the International Conference on New Frontiers in Engineering, Science and Technology (NFEST-2019) on 18 Feb 2019. They presented paper on “Design, Analysis and Manufacturing of Front Sprocket from Carbon Fiber Reinforced Plastics for a bicycle”.

• Akanksha Akanksha Ahuja (B.Tech. CSE 8th sem), participated in the Global Science, Technology & Innovation Conference (G-STIC) 2017 and merged as the overall winner and was invited to participate in G-STIC 2017 (Brussels, 23rd to 25th October, 2017) where she also presented her idea “GiveYour Wings to the PinkBin” in the plenary session.

• Piyush Verma, Prashant Gupta (ECE) presented poster titled “MovAid - A Novel Device for Advanced Rehabilitation Monitoring” at International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC’15) held in Venice, August, 15

• Deeksha Magoo, of Electronics and communication was presented Golden Award during her participation in the Global Initiatives Symposium held in Taiwan.

Achievement in Extra-curricular Activities:

• Ms. Rashmi, BSc. (Hons.) won 2st prize in Open District Badminton Championship followed by State Badminton Championship (KHEL MAHAKUMBHI CHAMPIONSHIP) held in October 2018

• Ms. Geetika Wadhwia, BSc. (Hons.) won 2nd Prize in SUDO KU competition, held at Daulat Ram College, University of Delhi on 21st February, 2019.

• Ojasvi Sardana, BBA 4th Semester FAA won the 1st prize in FUTSAL (football) inter MR Sports Meet held on 26th and 27th March 2019.

• Ashish Aggarwal student of Computer Science and Technology department, was the Prize winner of Quiz Cum Debating Competition (with cash prize of Rs. 3000/-) for the event Debate & Quiz @ Sustainable Development and Environment and General Awareness on 27th March 2019 organized by Manav Rachna & CSAR

• At Inter-District event’ IGNIDEA 2017 organized by DAV Centenary, Alpana Bhanot (ECE 3rd year) bagged second prize in English Debate Competition. Shailaish Raathil & Shubham Aggarwal (ME 3rd year) won second prize in Quiz Competition

• Namit Aman and Srishti Suresh of B.Tech CSE, participated in an Inter-State Debate Competition organized by the Department of Economics, DAV Centenary College, Faridabad. Namit Aman bagged third prize in English Debate Competition.
• Manav Rachna Centre of Excellence for Pistol Shooting in association with Ronak Pandit and Heena Sidhu was launched in May 2019. The Centre shall train naive learners to take up Pistol Shooting as a profession. This is a big opportunity for youngsters from North India to take up Shooting as a career and for those who are passionate for shooting.
• Five Students of MSc chemistry participated in “Concouir Scientifique ‘Inter University event organised at Amity university on 17th April 2018. Ayushi Pundir and Kamakshi Sharma won 1st and 2nd prize in painting competition, Poonam Garg won 3rd prize in poem competition.
• Three of the B.Ed students namely Akshita Shukla, Bhawna Aggarwal and Jatin Kaushik secured First, Second and Third place respectively in Essay writing Competition on the theme of Corruption Free India’ by Indian Oil Corporation on 5th Nov 2018.
• Akshita Shukla and Jitender, of B.Ed volunteered and worked as interns in the area of exploration of Innovative Pedagogy in SD International School Kanpur from 17th December to 28th December 2019.
• Himanshu Jha, B.Ed student selected as delegate in Asia World Model United Nations in Bali, Republic of Indonesia to be held from 13th to 16th November 2019.

Acceptance letter received on 23rd May 2019.

INFORMATION ACTIVITIES
• Akanksha Ahuja (B.Tech. CSE), did Technical Student Internship @ CERN, Geneva, Switzerland (2018), with a monthly stipend of 3283 CHF (~ 2,26,600 INR).
• Daksh Sharma (B.Tech. CSE), pursued Summer Quarter @ Stanford University, USA (June 2018). Daksh opted for three Courses under renowned professors at Stanford; and worked on a research paper under the mentorship of Dr. Larry Lagerstrom, preparing the social-cultural impact of various scientific icons.
• Ms. Chhavi Balyan of B.Sc. (Hons.) Mathematics did International Internship @ the University of Kelaniya, Colombo, Sri Lanka (June - July 2018)

The Internship Programme was organized by AIESEC IIT Delhi, India. Ms. Chhavi has been awarded with the Global Volunteer Leadership Development Experience and The AIESEC International Experience certificates for the project ‘Be Sri lankan’.
• The students, Vansh Tara and Ravi Kumar (VII Semester, B.Tech. ECE, MRU), attended the summer programme ‘Artificial Intelligence and Machine Learning’ from 15 to 30 July 2019 at Asia University, Taichung, Taiwan. The students developed the project on Automated Object Inspection.

University Participation with International Academic Partners
• Prof. (Dr.) Sanjay Srivastava (the former VC - MRU & MD MREI) visited Lahti University of Applied Sciences Finland and delivered course on ‘Business in Asia’ for the Students of International Business Programme (April 2017).
• Prof. (Dr.) Sanjay Srivastava (the former VC - MRU & MD MREI) has been awarded the Honorary International Research Fellow, LUAS, Finland. This rare honor was bestowed upon him by the Hon’ble Prime Minister of Finland Mr. Juha Sipila, who was in India (in February 2016) for the Make In India’ on the invitation of Hon’ble Prime Minister Shri Narendra Modi Ji.
• Manav Rachna partnered with LAMK in organizing Smart Cities in Smart Regions 2016 Conference. Dr. Sanjay Srivastava, delivered the keynote address during the session on “Citizens and Urban Sustainability” at the ongoing ‘Smart Cities in Smart Regions 2016’ conference. Ms. Meena Kapahi & Sanjana Malhotra (MRU) participated in the Smart Cities and Smart Regions 2016 conference and presented their papers in different sessions.

Inbound Activities
1. Roope Sippola, Viivi Anttonen and Teemu, students of Lahti University of Applied Science, Finland, completed their environment and sustainability project at MRU (1st Sept 2016 - 24th Jan 2017). The project was supervised by Prof. (Dr.) Rajat Gera, Department of Management and Commerce and Ms. Meena Kapahi, the Faculty of Applied Sciences.
2. Academic Cum Cultural Exchange Programme for the students of Carleton University, Canada (7th - 12th May 2018) was organized. The programme involved various visits to many tourist places in Delhi and to the Taj Mahal and workshop sessions on Indian Puppetry-the History & the Making, Indian Art and the classical dances of India.
3. Kritika Seth, Global Health Practicum, McMaster University, Canada, a graduate student in the Masters of Global Health Practicum course, worked on the issues concerning dental and menstrual health & awareness status of the female population through the survey.
4. The students, Jatin Kaushik secured First, Second and Third place respectively in Essay writing Competition on the theme of Corruption Free India by Indian Oil Corporation on 5th Nov 2018.

Free India’ by Indian Oil Corporation on 5th Nov 2018.
• Meena Kapahi (Associate Professor, MRU) as the Visiting Faculty, International Summer School 2017, Lahti University of Applied Sciences, Finland (May - June 2017) supervised and guided the student teams in their summer projects.

• Dr. Seema Sharma (Assistant Professor, MRU) was invited at UNESCO, Slovenia, under OE4BW Mentoring Programme (1st - 4th July 2019). She developed an OER on Emotional Intelligence, the OER was developed with the aim of contributing to the achievement of 17 UNESCO Sustainable Development Goals.

• Mr. Shashank Garg, Convener and Member of the Advisory Board, Faculty of Law, Manav Rachna University, had been honoured with his book being added to the library of the Ivy League University which is synonymous with success & expertise.

Joint Research Activities

• Ms. Shveta Malhotra, Ph.D scholar did her research work in UW-Oshkosh research lab under supervision of Prof. (Dr.) Pradeep K. Varshney, Dean Research, Manav Rachna University (formerly with MRIIRS) and Dr. Yijun Tang of University of Wisconsin, Oshkosh USA. In course of his research, a patent has been filed in US Trademark and Patent Office in addition to 04 research publications in SCI and Scopus database listed journals. This invention aimed at developing non-enzymatic sensor for detection of glucose with modification of the electrode using metal nanoparticles and polymer film.

• Dr. Aditya Sharma (Department of Physics) has been granted an international travel grant and research collaboration accolade from Pohang Accelerator Laboratory (PAL), South Korea, under the research project “Local electronic structure investigation of metal ion-implanted and ion-beam irradiated ABO3 perovskite thin films”. Under this research project, Dr. Aditya Sharma and two M.Sc. (Physics) students Ms. Himani Saraswat and Ms. Surekha Chaudhary have been invited to the PAL to conduct X-Ray absorption spectroscopy experiments from 14th to 21st December 2019.

Visits/ Guest Lectures/ Educational Courses by International Academic Partners

• Dr. Jo Barnes, Faculty of Environment and Technology, University of the West of England, visited Manav Rachna University on 17th March 2017. Dr. Jo has worked extensively in the area of air quality management.

• Professor Julia Connell, Assistant Dean Research Training, University of Newcastle, Australia visited the University on 11th July 2019 and delivered a workshop on “Writing and Publishing for Success”.

• Osh State University, Kyrgyzstan @Faculty of Education, MRU (13th October 2018)

As an extension of association of Faculty of Education, MRU, with Department of School Education, Panchkula, visited MRU on 13th October. During the interaction, discussions on student and faculty exchange took place.

• Senior Advisor to UN Secretary General Mr. Roland Schatz delivered Guest Lecture on 24th Nov 2018. The interaction was centered on the 17 SDG’s (Sustainable Development Goals) given by the United Nations towards a fully sustainable planet in 2030.

• Dr. Avtar Matharu, Deputy Director, Green Chemistry Centre of Excellence, York University, UK delivered one-week Educational Course on ‘Recent Advances in Green Chemistry & Technology’ from 7th to 11th July 2019

• Dr. Satinder Ahuja, President Ahuja Consulting, USA, delivered Plenary Lecture during International Conference, “Sustainable Initiatives in Water Management” (SIWM) organised in collaboration with the Royal Society of Chemistry. London (6th March 2018)
• Ms. Shveta Malhotra, Ph.D scholar did her research work in UW-Oshkosh research lab under supervision of Prof. Dr. Pradeep K. Varshney, Dean Reaserch, Manav Rachna University (formerly with MRIIRS) and Dr. Yijun Tang of University of Wisconsin, Oshkosh USA. In course of his research, a patent has been filed in US Trademark and Patent O ffice in addition to 04 research publications in SCI and Scopus database listed journals. This invention aimed at developing non-enzymatic sensor for detection of glucose with modification of the electrode using metal nanoparticles and polymer film.

• Dr. Aditya Sharma (Department of Physics) has been granted an international travel grant and research collaboration accolade from Pohang Accelerator Laboratory (PAL), South Korea, under the research project "Local electronic structure investigation of metal ion-implanted and ion-beam irradiated ABO3 perovskite thin films". Under their research project, Dr. Aditya Sharma and two M.Sc. (Physics) students Ms. Himani Saraswat and Ms. Surekha Chaudhary have been invited to the PAL to conduct the X-Ray absorption spectroscopy experiments from 14th to 21st December 2019.

**International Visiting Faculty**

Prof. Nathaniel Grafton Martin (Ex-Director UG Program at Rochester University New York) was associated with MRU as the visiting/contractual faculty in the Department of CST for the sessions 7th Jan - 30th Nov 2016 & Jan - Dec 2017.

**The Course “Sustainability Strategies” By Purdue University**

University offered course on Sustainability Strategies by Purdue University under PurdueNEXT programme to the UG/PG students in the session July - Dec 2016. Objective of the course was to equip the students with a vision to develop business approaches that create long-term social value by embracing opportunities and managing risks.

**SWAMI VIVEKANANDA LIBRARY & RESOURCE CENTER**

Swami Vivekanand Library and Resource Centre is central to learning, teaching, and research activities of students, faculty and researchers at Manav Rachna University. The library network includes Departmental level Libraries including following Faculty libraries: - Sh. R.C. Lahoti Memorial Library.

Faculty of Education library: The resources subscribed by the library are a range of National and International Journals, Magazines, Periodicals, Newspapers etc.

The library has over 8200 print books volume, 18 print journals and over 82000 e books and 1500 e journals.

Dr. OP Bhalla Learning Lounge- The Learning Lounge with workstations and conference room provides research support for Ph.D students, research scholar and faculties with a technology-enriched learning environment equipped with expert assistance for research in an appealing atmosphere conducive to individual research, group study, or collaborative course projects.

The libraries offers very rich collection of print resources such as books, journals and periodicals as well as electronics resources including e journals, e books, databases and kindles.

**Key features of the Library Network Include**

- Fully web-based operations and services
- My Account, Ask a Librarian Service
- Access to more than 46,000 print books
- e-Readers Kindles
- e-Books package comprising of over 1,57,000 book

**In addition to above, Swami Vivekananda Library and Resource Centre deploys:**

- O PAC - Libsys Web 7.0 System O PAC address: http://libpac.mrei.ac.in which offers user interactive services.
- Remote access of library resources through Ezproxy
- Single point of access for Content Management System for e-Learning through Library Portal
- Insta Alert Service that enables users to know immediately any transaction done to their account.
- Current Awareness Service like Book Alert Service, Article Alert Service and Book Review Service

Wi-Fi enabled library is also equipped with Digital Library Facility. Dedicated systems housed in the Digital Library allow students to freely access the course material on intranet site, refer to scientific literature through various subscriptions made by institute and surf internet to supplement their academic learning. The material is also easily accessible on all computers of the institute

Single Window Search solution offers researchers paradise by making all library resources available at a single click. 24X7 availability of library resources beyond campus through remote access provides unhindered access to resources.

The library remains open 8:00 am-6:00 pm from Monday to Saturday. With state of the art infrastructure, resources and services, dedicated sections like Discussion Rooms, Audio Visual Rooms, Digital Library and a separate enclosure for Research and Reference provides a perfect ambience for research and innovation @ MRU. The Library plays a central role in the University with primary objective to assist the student, faculty and research community in transforming knowledge.

The Library team welcomes you to the world of knowledge.
# PROGRAMMES OFFERED AT MRU

Table indicating programmes, intake, fee, eligibility and merit criteria.

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of the Program</th>
<th>Duration</th>
<th>Intake</th>
<th>FEES (Per annum) for Indian Nationals in Rupees</th>
<th>FEES (Per annum) in US $ for PIO/NRI Students</th>
<th>Minimum Eligibility Criteria</th>
<th>Criteria of Selection</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>B.Tech. CSE</td>
<td></td>
<td>150</td>
<td>1,91,500</td>
<td>US$ 5000</td>
<td>Pass in 10+2 examination with at least 55% marks in aggregate in 5 subjects and eligibility shall be determined on the basis of percentage of aggregate marks in i. English, Physics &amp; Mathematics ii. One subject out of Chemistry, Computer Science, Biology or Biotechnology and iii. One subject with the highest score out of the remaining subjects.</td>
<td>Merit preparation/short listing of candidates shall be on the basis of score in JEE Mains 2020/SAT/Uni Gauge 2020/MRNAT 2020/XII Qualifying Examination</td>
</tr>
<tr>
<td>2</td>
<td>B.Tech. Electronics &amp; Computers</td>
<td></td>
<td>30</td>
<td>1,81,500</td>
<td>US$ 5000</td>
<td>Pass in 10+2 examination with at least 50% marks in aggregate in 5 subjects and eligibility shall be determined on the basis of percentage of aggregate marks in i. English, Physics &amp; Mathematics and ii. One subject out of Chemistry, Computer Science, Biology or Biotechnology and iii. One subject with the highest score out of the remaining subjects.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>B.Tech in Mechanical Engineering (specialization in Smart Manufacturing &amp; Automation)</td>
<td>4 Year</td>
<td>60</td>
<td>2,44,000</td>
<td>US$ 5500</td>
<td>Pass in 10+2 examination with at least 50% marks in aggregate in 5 subjects and eligibility shall be determined on the basis of percentage of aggregate marks in i. English, Physics &amp; Mathematics and ii. One subject out of Chemistry, Computer Science, Biology or Biotechnology and iii. One subject with the highest score out of the remaining subjects.</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>B.Tech in Computer Science &amp; Engineering with (specialization in Artificial Intelligence &amp; Machine Learning) in association with Xebia</td>
<td></td>
<td>30</td>
<td>2,44,000</td>
<td>US$ 5500</td>
<td>Pass in 10+2 examination with at least 65% marks in aggregate in 5 subjects &amp; eligibility shall be determined on the basis of percentage of aggregate marks in i. English, Physics &amp; Mathematics and ii. One subject out of Chemistry, Computer Science, Biology or Biotechnology and iii. One subject with the highest score out of the remaining subjects.</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>B.Tech in Computer Science &amp; Engineering (specialization in Cloud, DevOp’s &amp; Automation) in association with Xebia</td>
<td></td>
<td>30</td>
<td>2,44,000</td>
<td>US$ 5500</td>
<td>Pass in 10+2 examination with at least 50% marks in aggregate in 5 subjects &amp; eligibility shall be determined on the basis of percentage of aggregate marks in i. English, Physics &amp; Mathematics and ii. One subject out of Chemistry, Computer Science, Biology or Biotechnology and iii. One subject with the highest score out of the remaining subjects.</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>B.Tech in Computer Science &amp; Engineering (specialization in Cyber Security &amp; Threat Intelligence) in association with Quick Heal</td>
<td></td>
<td>30</td>
<td>2,44,000</td>
<td>US$ 5500</td>
<td>Pass in 10+2 examination with at least 50% marks in aggregate in 5 subjects &amp; eligibility shall be determined on the basis of percentage of aggregate marks in i. English, Physics &amp; Mathematics and ii. One subject out of Chemistry, Computer Science, Biology or Biotechnology and iii. One subject with the highest score out of the remaining subjects.</td>
<td></td>
</tr>
</tbody>
</table>

Note: Programme details for B.Tech in Electronics & Computers may change subject to collaboration with True Chip
# PROGRAMMES OFFERED AT MRU

Table indicating programmes, intake, fee, eligibility and merit criteria.

## FACULTY OF ENGINEERING

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of the Program</th>
<th>Duration</th>
<th>Intake</th>
<th>FEES (Per annum) for Indian Nationals in Rupees</th>
<th>FEES (Per annum) in US $ for PIO/NRI Students</th>
<th>Minimum Eligibility Criteria</th>
<th>Criteria of Selection</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>M.Tech. Computer Engineering</td>
<td>6</td>
<td>1</td>
<td>1,06,000</td>
<td>US$ 3300</td>
<td>Minimum 50% marks or equivalent CGPA in B.E./B.Tech in Computer Science &amp; Engineering/ Computer Technology/ Information Technology/ MCA or equivalent</td>
<td>Merit preparation/ short listing of candidates shall be on the basis of score in GATE/Graduation Qualifying Examination</td>
</tr>
<tr>
<td>13</td>
<td>M.Tech. Electronics &amp; Communication Engineering with specialization in Embedded System &amp; VLSI</td>
<td>02 Year</td>
<td>6</td>
<td>1,06,000</td>
<td>US$ 3300</td>
<td>Minimum 50% marks or equivalent CGPA in B.E./B.Tech in Electronics &amp; Communication Engg./ Telecommunication Engg./ Computer Science &amp; Engineering/ Instrumentation &amp; Control Engg./ Electrical &amp; Electronics Engg./ Electrical Engg./ Power Electronics or/ MCA or M.Sc Computer Science/ Information Technology/ Electronics/Physics/ Mathematics as one of the subjects.</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>M.Tech Mechanical Engineering</td>
<td>6</td>
<td>1</td>
<td>1,06,000</td>
<td>US$ 3300</td>
<td>Minimum 50% marks or equivalent CGPA in B.E./B.Tech in any discipline.</td>
<td></td>
</tr>
</tbody>
</table>

## FACULTY OF MANAGEMENT & COMMERCE

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of the Program</th>
<th>Duration</th>
<th>Intake</th>
<th>FEES (Per annum) for Indian Nationals in Rupees</th>
<th>FEES (Per annum) in US $ for PIO/NRI Students</th>
<th>Minimum Eligibility Criteria</th>
<th>Criteria of Selection</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>BBA (Health Care Management) supported by leading hospitals of Delhi &amp; NCR</td>
<td>03 Year</td>
<td>30</td>
<td>1,64,500</td>
<td>US$ 4500</td>
<td>Pass in 10+2 examination with at least 50% marks in aggregate in 5 subjects. Should have qualified English as a subject.</td>
<td>Merit preparation/ short listing of candidates shall be on the basis of score in SAT/ MRNAT/ 10+2 Qualifying Examination.</td>
</tr>
<tr>
<td>2</td>
<td>BBA (Finance &amp; Accounts)</td>
<td></td>
<td>60</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>BBA (Entrepreneurship &amp; Family Business)</td>
<td></td>
<td>60</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>BBA (Operations Management with specialization in Supply Chain Management, Logistics &amp; Projects Management</td>
<td>30</td>
<td>180</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

In case candidate has opted for an additional subject in class 12th, aggregate shall be calculated counting the best 5 subjects including English as one of the subject.
## PROGRAMMES OFFERED AT MRU

Table indicating programmes, intake, fee, eligibility and merit criteria.

### FACULTY OF APPLIED SCIENCE

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of the Program</th>
<th>Duration</th>
<th>Intake</th>
<th>FEES (Per annum) for Indian Nationals in Rupees</th>
<th>FEES (Per annum) in US$ for PIO/NRI Students</th>
<th>Minimum Eligibility Criteria</th>
<th>Criteria of Selection</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>B.Sc. (Hons.) Chemistry</td>
<td>03 Year</td>
<td>30</td>
<td>1,06,000</td>
<td>US$ 3300</td>
<td>Pass in 10+2 Examination/ Equivalent Examination with at least 50% marks in aggregate in 5 subjects out of which 3 subjects English, Physics &amp; Chemistry are mandatory.</td>
<td>Merit preparation/ short listing of candidates shall be on the basis of score in SAT/ MRNAT/ 10+2 Qualifying Examination.</td>
</tr>
<tr>
<td>2</td>
<td>B.Sc. (Hons.) Mathematics</td>
<td></td>
<td>25</td>
<td>1,06,000</td>
<td>US$ 3300</td>
<td>Pass in 10+2 Examination/ Equivalent Examination with at least 50% marks in aggregate in 5 subjects out of which 4 subjects Physics, Chemistry, Mathematics &amp; English are mandatory.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>B.Sc. (Hons.) Physics</td>
<td></td>
<td>25</td>
<td></td>
<td></td>
<td>Pass in B.Sc. or B.Sc. (Hons.) with 50% or more marks in relevant subjects.</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>M.Sc. Chemistry</td>
<td>02 Year</td>
<td>30</td>
<td>1,06,000</td>
<td>US$ 3300</td>
<td>Pass with 60% or more marks in aggregate in the Bachelor's degree and/or in Master's degree in Sciences/Social Sciences/ Humanities/ Bachelor's in Engineering or Technology with specialization in Science and Mathematics with 55% marks or any other qualification equivalent thereto.</td>
<td>Merit preparation/ short listing of candidates shall be on the basis of score in MRNAT/ Graduation Qualifying Examination.</td>
</tr>
<tr>
<td>5</td>
<td>M.Sc. Mathematics</td>
<td></td>
<td>20</td>
<td>1,06,000</td>
<td>US$ 3300</td>
<td>Pass with 50% or more marks in aggregate in the Bachelor's degree and/or in Master's degree in Sciences/Social Sciences/ Humanities/ Bachelor's in Engineering or Technology with specialization in Science and Mathematics with 55% marks or any other qualification equivalent thereto.</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>M.Sc. Physics</td>
<td></td>
<td>20</td>
<td></td>
<td></td>
<td>Pass in 10+2 with 50% or more marks in aggregate with English as a subject.</td>
<td></td>
</tr>
</tbody>
</table>

### FACULTY OF EDUCATION & HUMANITIES

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of the Program</th>
<th>Duration</th>
<th>Intake</th>
<th>FEES (Per annum) for Indian Nationals in Rupees</th>
<th>FEES (Per annum) in US$ for PIO/NRI Students</th>
<th>Minimum Eligibility Criteria</th>
<th>Criteria of Selection</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>B.Ed.</td>
<td>02 Year</td>
<td>100</td>
<td>1,16,000</td>
<td>US$ 3300</td>
<td>Pass with 50% or more marks in aggregate in the Bachelor's degree and/or in Master's degree in Sciences/Social Sciences/ Humanities/ Bachelor's in Engineering or Technology with specialization in Science and Mathematics with 55% marks or any other qualification equivalent thereto.</td>
<td>Merit preparation/ short listing of candidates shall be on the basis of score in SAT/ MRNAT/ Graduation Qualifying Examination.</td>
</tr>
<tr>
<td>2</td>
<td>B.Ed. Special Education (Learning Disability)</td>
<td></td>
<td>30</td>
<td>1,26,000</td>
<td>US$ 3500</td>
<td>Pass with 60% or more marks in aggregate in the Bachelor's degree and/or in Master's degree in Sciences/Social Sciences/ Humanities/ Bachelor's in Engineering or Technology with specialization in Science and Mathematics with 55% marks or any other qualification equivalent thereto.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>B.A. B.Ed. Integrated</td>
<td>04 Year</td>
<td>50</td>
<td>1,16,000</td>
<td>US$ 3300</td>
<td>Pass in 10+2 with 50% or more marks in aggregate with English as a subject.</td>
<td>Merit preparation/ short listing of candidates shall be on the basis of score in SAT/ MRNAT 2019/ 10+2 Qualifying Examination.</td>
</tr>
<tr>
<td>4</td>
<td>B.Sc. B.Ed. Integrated</td>
<td></td>
<td>50</td>
<td>1,16,000</td>
<td>US$ 3300</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>*Integrated Teacher Education Programme (Pre Primary-Primary) Science Stream</td>
<td></td>
<td>50</td>
<td>1,16,000</td>
<td>US$ 3300</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>*Integrated Teacher Education Programme (Pre Primary-Primary) Arts Stream</td>
<td></td>
<td>50</td>
<td>1,16,000</td>
<td>US$ 3300</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Subject to approval from NCTE
In case candidate has opted for an additional subject in class 12th, aggregate shall be calculated counting the best 5 subjects including English as one of the subject.
PROGRAMMES OFFERED AT MRU

Table indicating programmes, intake, fee, eligibility and merit criteria.

In case candidate has opted for an additional subject in class 12th, aggregate shall be calculated counting the best 5 subjects including English as one of the subject

For IB Board: Student should have secured a minimum of 26 points/credits with minimum of three subjects passed at Higher Level (HL) and three at standard level (SL).

For Cambridge International Examinations (IGCSE): Minimum % shall be same as that for CBSE candidates. Candidate must be passed in minimum 5 subjects of ‘O’ Level and minimum 2 subjects of ‘A’ Level. These are mandatory to obtain equivalence certificate from AIU.

Reservation Policy: A minimum of 25% seats for admission in the University shall be reserved for the students of State of Haryana, out of which 10% seats will be reserved for students belonging to Scheduled Caste of the State of Haryana.

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name of the Program</th>
<th>Duration</th>
<th>Intake</th>
<th>FEES (Per annum) for Indian Nationals in Rupees</th>
<th>FEES (Per annum) in US $ for PIO/NRI Students</th>
<th>Minimum Eligibility Criteria</th>
<th>Criteria of Selection</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>B.A. LLB (Hons.)</td>
<td>05 Year</td>
<td>60</td>
<td>1,83,000</td>
<td>US$ 5000</td>
<td>Pass in 10+2 Examination with 50% or more marks in aggregate in 5 subjects. Should have qualified English as a subject</td>
<td>Merit preparation/short listing of candidates shall be on the basis of score in SAT/CLAT/MRNAT 2020/10+2 Qualifying Examination.</td>
</tr>
<tr>
<td>2.</td>
<td>B.BA LLB (Hons.)</td>
<td>05 Year</td>
<td>60</td>
<td>1,83,000</td>
<td>US$ 5000</td>
<td>Pass in 10+2 Examination with 50% or more marks in aggregate. Should have qualified English as a subject</td>
<td>Merit preparation/short listing of candidates shall be on the basis of score in SAT/CLAT/MRNAT 2020/10+2 Qualifying Examination.</td>
</tr>
<tr>
<td>3.</td>
<td>B.Com. LLB (Hons.)</td>
<td>01 Year</td>
<td>20</td>
<td>1,64,500</td>
<td>US$ 5000</td>
<td>Pass in LLB or 5 Year Integrated Law course with 50% or more marks in aggregate. Preference shall be given to the law graduates with experience of 3 years or more</td>
<td>Merit preparation/short listing of candidates shall be on the basis of score in SAT/CLAT/MRNAT 2020/10+2 Qualifying Examination.</td>
</tr>
<tr>
<td>4.</td>
<td>LLM</td>
<td>02 Year</td>
<td>40</td>
<td>1,26,000</td>
<td>US$ 4000</td>
<td>Merit preparation/short listing of candidates shall be on the basis of score in SAT/CLAT/MRNAT 2020/10+2 Qualifying Examination.</td>
<td></td>
</tr>
</tbody>
</table>

MRU ADMISSIONS CALENDAR 2020-21

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>NAME OF THE PROGRAMME</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>B.Tech. Programme</td>
</tr>
<tr>
<td></td>
<td>All UG Programmes Except B.Tech &amp; B.Tech- Lateral Entry</td>
</tr>
<tr>
<td></td>
<td>B.Tech-lateral Entry and all PG Programmes</td>
</tr>
</tbody>
</table>

Sale of Application Forms Open: 10.11.2019
Start of filling-up on-line Application Form: 10.11.2019
Date of Conduct of MRNAT-2020 and GD/PI: 25-04-2020 and 26-04-2020
Short listing/Selection of Candidates and Offer of Admission:
(A) For applicants seeking admission through MRNAT 2020, the selected candidates shall be sent offer of admission within 3 days of conduct of their MRNAT.
(B) For applicants with JEE Main 2020 score, the selected candidates shall be sent offer of admission 22.02.2020 onwards.
(C) For applicants with SAT score, the selected candidates shall be sent offer of admission 25.11.2019 onwards.

Confirmation of acceptance of Admission and Fee Payment: Within 7 days of communication of offer of Admission by University Authority.
Slot Booking for Physical Document Verification/Enrollment Process: Slots shall be communicated by University Authority within 3 days to the candidates who confirm the acceptance of admission.
Physical Document Verification/Enrollment Process: As per slot communicated and confirmed.
Class Commences: 06.07.2020 (Monday) 08.07.2020 (Wednesday) 13.07.2020 (Monday)
# MRU - Fee Schedule 2020-21

<table>
<thead>
<tr>
<th>Faculty</th>
<th>Programme</th>
<th>Total Seats</th>
<th>1st Installment</th>
<th>2nd Installment</th>
<th>Total Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Total of 1st Installment</td>
<td>Total of 2nd Installment</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1st Installment Fee</td>
<td>2nd Installment Fee</td>
<td>Total Fee</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>University Fee</td>
<td>Student Resource Fee</td>
<td>Training Partner Fee</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Development Fee</td>
<td>Development Fee</td>
<td></td>
</tr>
</tbody>
</table>

### B.Tech. Computer Science & Engineering
- Seats: 150
- Total Fee: 114500
- 1st Installment: 60000
- 2nd Installment: 54500
- Note: Programme fee for B.Tech in Electronics & Computers may change subject to collaboration with True Chip

### B.Tech. Electronics & Computer Engineering
- Seats: 30
- Total Fee: 109000
- 1st Installment: 55000
- 2nd Installment: 54000

### B.Tech. in Computer Science & Engineering (specialization in Artificial Intelligence & Machine Learning)
- Seats: 30
- Total Fee: 147000
- 1st Installment: 71000
- 2nd Installment: 76000

### B.Tech. in Computer Science & Engineering (specialization in Cloud, DevOps & Automation)
- Seats: 30
- Total Fee: 150000
- 1st Installment: 71000
- 2nd Installment: 79000

### B.Tech. in Computer Science & Engineering (specialization in Cyber security & Threat Intelligence)
- Seats: 60
- Total Fee: 175000
- 1st Installment: 71000
- 2nd Installment: 104000

### B.Tech. in Mechanical Engineering (specialization in Smart Manufacturing & Automation)
- Seats: 60
- Total Fee: 245000
- 1st Installment: 71000
- 2nd Installment: 174000

### B.Tech-Lateral (CSE, Electronic & Computer Engg)
- Seats: 14
- Total Fee: 92000
- 1st Installment: 55000
- 2nd Installment: 37000

### B.Tech-Lateral (DSML, ME & DTE)
- Seats: 4
- Total Fee: 86000
- 1st Installment: 71000
- 2nd Installment: 15000

### M.Tech.
- Seats: 18
- Total Fee: 66500
- 1st Installment: 32500
- 2nd Installment: 34000

### BBA (Health Care Management)
- Seats: 30
- Total Fee: 97500
- 1st Installment: 55000
- 2nd Installment: 42500

### BBA (Finance & Accounts)
- Seats: 60
- Total Fee: 97500
- 1st Installment: 55000
- 2nd Installment: 42500

### BBA (Entrepreneurship & Family Business)
- Seats: 60
- Total Fee: 97500
- 1st Installment: 55000
- 2nd Installment: 42500

### BBA (Operations Management with specialization in Supply Chain Management Logistics & Projects Management)
- Seats: 30
- Total Fee: 97500
- 1st Installment: 55000
- 2nd Installment: 42500

### B.Sc. (Hons.)-Physics
- Seats: 30
- Total Fee: 66500
- 1st Installment: 27500
- 2nd Installment: 39000

### B.Sc. (Hons.)-Chemistry
- Seats: 30
- Total Fee: 66500
- 1st Installment: 27500
- 2nd Installment: 39000

### B.Sc. (Hons.)-Mathematics
- Seats: 30
- Total Fee: 66500
- 1st Installment: 27500
- 2nd Installment: 39000

### M.Sc.-Physics
- Seats: 20
- Total Fee: 66500
- 1st Installment: 27500
- 2nd Installment: 39000

### M.Sc.-Chemistry
- Seats: 30
- Total Fee: 66500
- 1st Installment: 27500
- 2nd Installment: 39000

### M.Sc.-Mathematics
- Seats: 20
- Total Fee: 66500
- 1st Installment: 27500
- 2nd Installment: 39000

### B.Ed.
- Seats: 100
- Total Fee: 71500
- 1st Installment: 32500
- 2nd Installment: 39000

### B.Ed. Special Education (LD)
- Seats: 30
- Total Fee: 76500
- 1st Installment: 37500
- 2nd Installment: 39000

### B.A. B.Ed. Integrated
- Seats: 50
- Total Fee: 71500
- 1st Installment: 32500
- 2nd Installment: 39000

### B.Sc. B.Ed. Integrated
- Seats: 50
- Total Fee: 71500
- 1st Installment: 32500
- 2nd Installment: 39000

### Integrated Teacher Education Programme (Pre Primary-Primary) Science Stream
- Seats: 50
- Total Fee: 71500
- 1st Installment: 32500
- 2nd Installment: 39000

### Integrated Teacher Education Programme (Pre Primary-Primary) Arts Stream
- Seats: 50
- Total Fee: 71500
- 1st Installment: 32500
- 2nd Installment: 39000

### LL.M (One Year)
- Seats: 20
- Total Fee: 97500
- 1st Installment: 55000
- 2nd Installment: 42500

### LL.M (Two Year)
- Seats: 40
- Total Fee: 76500
- 1st Installment: 37500
- 2nd Installment: 39000

### Total
- Total Seats: 1276
- Total Fee: 116000
- 1st Installment: 56000
- 2nd Installment: 60000

**Note:** Programme fee for B.Tech in Electronics & Computers may change subject to collaboration with True Chip.
IMPORTANT INSTRUCTIONS FOR ADMISSION SEEKERS

ADMISSION PROCESS

STEP- I SUBMISSION OF APPLICATION - ONLINE APPLICATION FORM FILLING

Application for admission shall be submitted online only on the portal www.manavrachna.edu.in. The candidate may fill the application form without waiting for the results of qualifying examination (XII/ Graduation/ Diploma as the case may be). The prospective student is advised to carefully fill all the details and prioritize the choice of programs he/she wishes to apply. A maximum of 3 (three) choices are allowed. An application fee of Rs. 1200/- has to be paid. Payment can be made through Net Banking/ Credit/Debit card/ E wallets at the time of submission of application. Alternatively, the candidate may procure the Admission Brochure from Manav Rachna Campus, Administrative Headquarters or City Centers, details of which are available on Manav Rachna website. The admission brochure contains a Scratch Card (voucher code) consisting of a covered number, which will facilitate submission of application form online. Admission Brochure without a Scratch Card (voucher code) may be downloaded from Manav Rachna website free of cost. Once online application for admission is submitted successfully, the system will generate a unique application number which must be noted by the candidates as the same shall act as a Reference Number for all subsequent correspondence till the candidate is actually admitted.

DIRECTIONS FOR FILLING ONLINE APPLICATION FORM

1. Read Instructions for filling up Online Application Form carefully on the opening page after you Click 'Apply Now' on the Manav Rachna website Home Page.
2. Keep a Digitized Photograph ready on your Computer Desktop for uploading with maximum 80 KB memory, 30mm X 45mm in size in a formal dress against plain background. Candidates are advised to avoid photographs in T-Shirts/ Tops/Flashy Clothing as the photograph shall be required for all subsequent transactions including preparations of ID card and Academic Transcripts. Also keep ready a scanned copy of Secondary School Examination Certificate (10th as proof of Date of Birth), Senior Secondary School Examination Certificate (10+2 mark sheet), final year consolidated mark sheet/ Provisional Certificate Degree/Diploma Certificate of the qualifying examination, if any.
3. Fill-up all fields with the correct information; Applicant's & Parent's detail as given in the mark sheet/testimonial of last qualifying examination. Do not use all Capital/ Small Letters. Use Sentence case. Mandatory fields are marked with Asterisks, without which application will not be submitted. The candidate has the liberty to edit certain fields as indicated in the format of application including Address, Mobile Number and Qualifying Examination Result etc.
4. Take out print-out of the final version of the online application form which must be brought at the time of Physical Verification of Documents/ Enrollment Process.

STEP- II UPLOADING OF DOCUMENTS

Every candidate shall be required to upload the following documents along with the application:

- Class 10th mark sheet: Mandatory for all Programmes
- Address Proof: For all Programmes
- UG Programmes:
  - 12th standard mark sheet (if result is yet not announced: school ID card + score card of XI class / predictive score of XII class issued by school authorities): Mandatory
  - For UG Engineering Programmes: Mark sheets/ score of merit defining document i.e. Valid Score of JEE Mains-2020/ SAT/ UNIGAUGE, as applicable, in which the candidate has appeared.
  - For UG Law Programmes: Mark sheets/ score of merit defining document i.e. Valid score of CLAT/SAT, as applicable, in which the candidate has appeared.
  - For UG Programmes in Education, Sciences and Management: Mark sheets/ score of merit defining document i.e. Valid score of SAT, as applicable, in which the candidate has appeared.
- PG Programmes:
  - 12th standard mark sheet: Mandatory
  - Pre-final Year mark sheets of higher education qualification are Mandatory
  - Valid Score of GATE-2020 for M.Tech Programme, if candidate has appeared.
STEP- III SELECTION OF CANDIDATE AND OFFER OF ADMISSION LETTER

Merit Defining Document: Admission to various programs is based on merit as specified in the Admission Brochure under heading PROGRAMS OFFERED AT MRU for various programmes. For details, refer page no. 35-38. Admissions to all programs are also made on the basis of Manav Rachna National Aptitude Test (MRNAT) for which the scores shall automatically be picked up for merit. The complete details of MRNAT-2020 is given at page 42 of Admission Brochure.

a. The Candidates shall be allowed to prioritize choices amongst the programs at the application stage itself. A candidate, who initially does not get the program as per his/her choice in the first list, shall be offered admission in subsequent choices filled. University shall announce vacancy, if any, at a later date and desirous candidate shall have an option of appearing in the 'on the spot counseling' and may get up graded as per the merit of the participating candidates.

b. Seats in the programs shall be allotted on the basis of preferences indicated in the application form, strictly in order of merit.

c. The program wise selection of candidates amongst applications received shall be drawn based on the actual marks scored by the candidate in Merit Defining Exam Score. For JEE mains 2020 Exams, marks in Overall category shall only be considered and marks under any special category or state etc. shall not be taken into account.

d. The vacant seats, if any, after filling the seats for each programme with relevant score in JEE Mains-2020/ SAT/ UNIGAUGE/ GATE/MRNAT entrance test, shall be filled-up on the basis of qualifying examination on merit.

e. More than one list may be announced. The selected candidates shall be communicated with Admission offer letter, further guidelines and other details through e-mail. Candidates are advised to check their SPAM or JUNK facilitationcentre@manavrachna.edu.in. Please note that this is the only official mail ID of the University, for all communications related to admissions in the year 2020.

NOTE

• It is essential for the candidate to provide the marks of the merit criteria determining examination to the University immediately, after declaration of results. Candidate is required to log in to application form, fill in details and submit the application form. The details have to be filled before the due date of merit announcement. Non-compliance shall be at candidate's risk and no claim can be made for consideration for merit.

• Candidates who are offered provisional admission based on declared scores in the application, will be required to produce proof of having passed the qualifying examination i.e. (10+2 or equivalent) to the University authorities at the time of physical verification of documents failing which, such provisional admission will stand cancelled. No representations for extension of dates shall be entertained.

STEP- IV- ACCEPTANCE OF ADMISSION & PAYMENT OF FEE

All the selected candidates, who receive Admission Offer Letter from the University shall be required to send the Acceptance of Admission for the offered programme in the format which shall be sent by the University Authority along with the Admission Offer Letter.

Thereafter, the candidate shall be required to deposit the 1st installment of fee as detailed at page 39 in the Admission Brochure for various programmes within one week of offer of admission by using any mode as given at page 43 of the Admission Brochure.

STEP- V PHYSICAL VERIFICATION OF DOCUMENTS AND ENROLLMENT PROCESS:

a. All the candidates, who have accepted the admission after receipt of Admission Offer Letter, shall be required to report at designated venues for “Physical Document Verification/ Enrollment Process” as per the slots given to them. Candidates are required to bring Letter of ‘Offer of Admission’ and all the original fee receipts.

Candidates shall also carry all relevant documents in original along with a set of self attested photocopies. Candidates shall upload all the documents (see list on University website at www.manavrachna.edu.in) on Admission Portal prior to verification process.

b. Candidates can appear in the “Physical Document Verification/ Enrollment Process” after deposition of 1st installment of academic fee, as given on the website. Fee can be deposited using any mode as given on page 43 in Admission Brochure (at least 3 days prior to appearing for this process)

After verifications of relevant documents, all successful candidates shall be issued the Provision Admission Letter along with temporary I-card of the University.

However, in case any provisional admitted candidate fails to prove his/her eligibility as stated in Admission Brochure from page 35 to 38 by 14th August (for all UG/PG Engineering Programmes) and by 30th September for all other programmes, his/her provisional admission shall automatically stand cancelled, for which he/she will have no claim.
RESERVATION OF SEATS
Manav Rachna University presently follows the reservation policy as under:

- NRI/Foreign National/PIO seats: 5% in all programmes.
- General Seats: 95% (25% seats are reserved for Haryana domicile students, of which 10% seats are for the SC candidates of Haryana).
- Kashmiri Migrants: 1 seat over and above the normal intake in all the UG programmes.

RELAXATION IN ELIGIBILITY
SC/ST candidates shall be eligible for 5% relaxation in eligibility criteria whereas OBC Candidates & Candidate with physical disability shall be eligible for 3% relaxation in the eligibility criteria in all the UG, PG and Doctoral Programs.

The candidates belonging to any of the following category, Girl Child, Sports Persons, Ward of Defense Personnel / Para Military Forces shall also be considered for relaxation up to maximum of 5% in eligibility criteria in all the programs on case to case basis.

ADMISSION OF NRI/PIO/FOREIGN NATIONALS IN 2020-21

a. Programmes offered: The details of the programmes available and eligibility criteria shall be same for all the programmes as prescribed.

b. Admission Procedure

1. NR/PIO/Foreign Nationals seeking admissions in different programs in MRU may submit scanned copy of duly filled and signed simplified application form downloadable from MRU website www.iec.mru.edu.in along with scanned copy of the following certificates.

- Academic Transcript translated in English (If original transcript is in a language other than English), the translated transcript in English shall have to be attested by Indian Embassy of the candidates Country or Embassy of Candidate’s country in India or by Head of Department, Department of Education, Province/ Federal Government of the Candidate’s Country.
- Passport showing the name, address, validity, issuing authority.
- The candidates shall also be required to submit two letters of recommendation from the faculty/authorities of their previous institution/school. In case of application for under graduate programme, one LOR may preferably be from school counselor.
2. On receipt of application form, MRU shall get the eligibility of the candidate confirmed for the applied academic programme and convey to the candidate whether he/she is eligible for admission or not.

3. A candidate who has been adjudged eligible for admission in a particular programme shall be required to deposit the 1st installment of fee as under through Bank Transfer, after verification of which MRU shall issue a Provisional Admission Letter for facilitating the candidates to apply for visa.

MANAV RACHNA NATIONAL APTITUDE TEST (MRNAT) 2020

MRNAT (Manav Rachna National Aptitude Test) shall be conducted by the University across various disciplines. The test is applicable for candidates seeking admission to undergraduate and post graduate programs of all disciplines. The test has 2 major components:

1. Online exam: It is an objective type online exam of 90 minutes duration with questions from syllabus covered in the qualifying exam (eg. XII or Graduation as the case may be) and/or aptitude for the program applied for. (For details check website www.manavrachna.edu.in)
- GD and/or PI: Candidates shall be assessed for communication skills, ability to express themselves effectively and put across their point of view. They may be challenged to demonstrate their problem solving skills and their ability to be a team player.

University has deployed technology developed by India’s leading assessment agency to ensure fair and transparent conduct of online test. The candidates shall be allotted a designated computer system in the examination centre and shall be required to login using Application Sequence Number and Password as conveyed to the applicant through email or in the exam hall prior to the examination. It is therefore advised not to share Email IDs and Password with others to avoid complications. The questions shall appear on the monitor and the candidates shall submit answers by using mouse only. The computer system is connected to a Central Server which delivers the test in real time without web connectivity. All other functions are disabled in the machine and there is no Human involvement in the test. No formal computer knowledge is required to appear for the test. The candidate will be intimated about the place, date and time of the Test, through email and SMS well in time. For all Programmes, the Test would be conducted at Manav Rachna Campus & other locations as given on the University website.

NOTIFICATION OF SCHEDULE FOR MRNAT FOR ADMISSION

1. The detailed admission calendar/ key dates is appended at page no. 38 of this brochure.
2. The candidates shall be notified through official E-mail for slot and venue for conduct of MRNAT-2020 depending on the date of submission of his/her on-line application for admission and address. However, under exceptional cases, the University Authority may consider the candidate’s request for change of time slot/venue.
3. Candidates are advised to look for notices/alerts by clicking the ‘Admissions’ Tab on Manav Rachna website.
4. The selected candidates on the basis of MRNAT-2020 shall be sent Offer of Admission as mentioned above under step III of Admission Process.
MODE OF DEPOSIT OF FEES BY THE APPLICANTS/STUDENTS

Institution has provided various modes for depositing the fees as per details given below:

- Payment Gateway from ERP. Please follow the following steps:
  1) Login through following URL - URL: app1.cloudeducationerp.com/mrei
  2) Enter your login (user ID and password)
  3) Click on Fee Tab
  4) Click on Challan button to Print challan after entering the mode of payment.
  5) Pay Fees online by clicking on Pay online button through Credit card and Internet Banking.

- Cash payment at any of the branches of Punjab National Bank in India through Pre-Printed Payment Challan.
  In this case, students are required to download challan from their ERP portal and submit the same at PNB along with the requisite fee. Students/Wards having their accounts in PNB can also deposit fee through challan by issuing cheque in favour of “Yourself”. Convenience Charges @ Rs. 10 per transaction are payable to the Bank.

- Through NEFT/RTGS both online and at any bank’s branch.
  Details to be mentioned for NEFT transaction are given as below:
  
  **NAME OF THE BENEFICIARY**: MANAV RACHNA UNIVERSITY
  **BANK NAME & BRANCH**: PUNJAB NATIONAL BANK, MANAV RACHNA INternatioN al UNIVERSITY, FARIDABAD (HARYANA)-121004
  **BENEFICIARY ACCOUNT NO**: 3179002100108316
  **RTGS/NEFT IFS CODE**: PUNB0889500

- Through Credit Card at Campus:
  In this case the convenience charges @ 1.50% are payable in addition to fee due.

- Through login at Paytm.com/education Please choose ‘Manav Rachna University’ on Paytm page/app. Transaction charges for payment through this mode are NIL at present.

- Through Demand Draft/ Pay Order in favour of Manav Rachna University payable at Faridabad / Delhi

For Fee detail please see schedule of payment at page no. 39 of Admission Brochure

LATE FEE PAYMENT

Note: In semester's subsequent to 1st, those students who fail to deposit fee by the due date shall be levied a fine of Rs. 100/- per day including Sunday / Holidays up to 15 days. The name of those students, who fail to deposit the fee with requisite fine within 15 days from the due date as mentioned above, shall be struck off from the rolls of the University immediately thereafter. However, such students may be re-admitted with the approval of Registrar after they deposit Rs. 2000/- as re-admission charges along with the fees and fine Rs. 1500/-. The period during which the name of the student remains struck off, will not be treated as inactive period for the purpose of calculation of attendance.

For any further query contact at following phone number between 9:00 am to 5:00 pm on all weekdays:

Admission Help Desk - 0129-4259000

PAYMENT OF FEES

SCHEDULE OF PAYMENT OF FEES AT THE TIME OF ADMISSION/ FIRST YEAR

**a)** First Installment: At the time of Acceptance of Admission Offer

b) Second Installment: On or before 14th November 2019

SCHEDULE OF PAYMENT OF FEES IN SUBSEQUENT YEARS

**a)** First Installment: On or before 30th April of the calendar year.

b) Second Installment: On or before 14th November of the calendar year.

PROCEDURE FOR CHANGE OF PROGRAM

Under exceptional circumstances, request for change of program may be considered with the approval of competent authority the recommendations of the Dean of Faculty concerned in which admission has been already sought on payment of requisite processing charge of Rs. 3000/-, provided the seat in which the candidate wants to shift is/are lying vacant.
SCHOLARSHIP/FREE-SHIP POLICY OF MRU FOR 2020-21

Scholarship policy of University encourages a good number of students every year and kindles the spirit of consistent performance. In the year 2019-20, a substantial sum of more than one crore, three lakh was awarded in the form of various scholarship policies of the universities.

A) Schemes ‘Utkarsh’ and ‘Uttam’ for the candidates based on MRNAT-2020 Score for UG & PG programmes:

<table>
<thead>
<tr>
<th>MRNAT 2020 Score</th>
<th>‘Utkarsh’**</th>
<th>‘Uttam’**</th>
</tr>
</thead>
<tbody>
<tr>
<td>90.00% &amp; above</td>
<td>100% Tuition Fee Waiver</td>
<td>100% Tuition Fee Waiver</td>
</tr>
<tr>
<td>80.00% &amp; above but below 90.00%</td>
<td>50% Tuition Fee Waiver</td>
<td>25% Tuition Fee Waiver</td>
</tr>
<tr>
<td>70.00% &amp; above but below 80.00%</td>
<td>25% Tuition Fee Waiver</td>
<td>10% Tuition Fee Waiver</td>
</tr>
</tbody>
</table>

* Scheme ‘Utkarsh’ is for candidates taking Admission within a period from 1st April 2020 to 31st May 2020)
** Scheme ‘Uttam’ is for candidates taking Admission within a period from 1st June 2020 to 31st July 2020)

B) Free ship/ Scholarships to students based on marks/CGPA in the qualifying examination as per following criteria: UG level programmes (Except BEd. & BEd. Special Education)

<table>
<thead>
<tr>
<th>Marks/ CGPA in Qualifying Examination</th>
<th>Tuition Fee Waiver</th>
</tr>
</thead>
<tbody>
<tr>
<td>90% and above</td>
<td>100%</td>
</tr>
<tr>
<td>85% to 89.99%</td>
<td>50%</td>
</tr>
<tr>
<td>80% to 84.99%</td>
<td>25%</td>
</tr>
</tbody>
</table>

PG level Programme (other than LLM programme)

<table>
<thead>
<tr>
<th>Marks / CGPA in Qualifying Examination</th>
<th>Tuition Fee Waiver</th>
</tr>
</thead>
<tbody>
<tr>
<td>80% and above</td>
<td>100%</td>
</tr>
<tr>
<td>75% to 79.99%</td>
<td>50%</td>
</tr>
<tr>
<td>70% to 74.99%</td>
<td>25%</td>
</tr>
</tbody>
</table>

LLM Programme

<table>
<thead>
<tr>
<th>Marks/Score in the Qualifying Examination</th>
<th>Tuition Fee Waiver</th>
</tr>
</thead>
<tbody>
<tr>
<td>75% &amp; above</td>
<td>100%</td>
</tr>
<tr>
<td>70% to 74.99%</td>
<td>50%</td>
</tr>
<tr>
<td>65% to 69.99%</td>
<td>25%</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>JEE-2020 Overall All India Rank</th>
<th>Tuition Fee Waiver</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upto 50000</td>
<td>100%</td>
</tr>
<tr>
<td>50001 - 100000</td>
<td>50%</td>
</tr>
<tr>
<td>100001-150000</td>
<td>25%</td>
</tr>
</tbody>
</table>

D) Free ship /Scholarships to students seeking admission for Integrated LLB programmes on the basis their CLAT-2020 Marks/Score as per following criteria

<table>
<thead>
<tr>
<th>CLAT-2020 Marks/Score</th>
<th>Tuition Fee Waiver</th>
</tr>
</thead>
<tbody>
<tr>
<td>151&amp; above</td>
<td>100%</td>
</tr>
<tr>
<td>141 to 150</td>
<td>50%</td>
</tr>
<tr>
<td>131 to 140</td>
<td>25%</td>
</tr>
</tbody>
</table>

E) Free ship /Scholarships to students seeking admission for any UG programmes on the basis their SAT-2020 Marks/Score as per following criteria

<table>
<thead>
<tr>
<th>SAT-2020 Marks/Score</th>
<th>Tuition Fee Waiver</th>
</tr>
</thead>
<tbody>
<tr>
<td>1301 &amp; above</td>
<td>100%</td>
</tr>
<tr>
<td>1201 to 1300</td>
<td>50%</td>
</tr>
<tr>
<td>1101 to 1200</td>
<td>25%</td>
</tr>
</tbody>
</table>

Note: Total Free ship/ Scholarships to students under all categories stated above (from B to E) put to together shall be limited to maximum 10% of the sanctioned intake for the programme of admission.

F) Free ship /Scholarships to the Wards of MREI Employee: 25% Tuition fee Waiver (limiting up to maximum of Rs. 12500/ per semester) to First Child only, however, if first child is already getting scholarship on the basis of Merit then this benefit would be passed to second child, if applicable.

G) Free ship /Scholarships to the Siblings of Manav Rachna Student in the same HEI: 10% Tuition fee Waiver (limiting up to maximum of Rs. 5000/ per semester) to the Sibling (brother/sister) of Student already enrolled in any of the Programme at HEI of MREI. Only elder one of the siblings would get the said benefit. In case, candidate is eligible for any free ships/ scholarships in either of above stated categories from A to I, he/she shall be getting this benefit over and above to free ship/scholarship of that category with a maximum limit up to 100% Tuition Fee Waiver.

H) Free ship/Scholarships to the Alumni of Manav Rachna Educational Institution: Student who is an Alumnus of any of the Manav Rachna Educational Institutions (Schools or HEI), eligible for 10% Tuition fee waiver (limiting up to maximum of Rs. Rs. 5000/ per semester) during admission to the programs offered by any of the HEI. In case, candidate is eligible for any free ships/ scholarships in either of above stated categories from A to I, he/she shall be getting this benefit over and above to free ship/scholarship of that category with a maximum limit up to 100% Tuition Fee Waiver.

Note:
- Proof of relationship is to be provided wherever applicable
- For continuity, University Scholarship policy would be applicable from 2nd Semester
- Suitable free ship shall be available to high achievers in the field of sports, persons suffering with Thalassaemia Major, sons/ daughters of Army Personnel who have been killed in war/ terrorist attack, physically handicapped students etc. on case to case basis.

Conditions for Continuation of Free ship/ Scholarship in Subsequent semesters for above categories

Progress of students awarded scholarship in subsequent semesters shall be reviewed after end of every semester for continuation, based upon his/her performance in the previous semester. For continuation of scholarship student shall be required to:
- Maintain a minimum SGPA of 7.0 in each semester without any backlog.
- Have 75% attendance in all courses in each semester.
- Applicants should not have been suspended for any grave act of indiscipline by the university.
- No disciplinary action against the applicant is established or pending in case of ragging or eve teasing.
- The applicant should not be receiving any other scholarship from any other source whatsoever, for which a certificate signed by student & parents is to be provided.

J) Scholarship for outstanding achievers in sports category
A provision of scholarship for outstanding achievers in sports is available for admission seeker at Higher Educational Institutions (HEIs) as per following categories:

<table>
<thead>
<tr>
<th>Event/Level</th>
<th>Participation</th>
<th>Medal Win</th>
</tr>
</thead>
<tbody>
<tr>
<td>Olympics</td>
<td>100% of Tuition Fee</td>
<td>100% of Tuition Fee</td>
</tr>
<tr>
<td>Asian Games / Asian Championship</td>
<td>75% of Tuition Fee</td>
<td>100% of Tuition Fee</td>
</tr>
<tr>
<td>Common Wealth Games</td>
<td>50% of Tuition Fee</td>
<td>75% of Tuition Fee</td>
</tr>
<tr>
<td>World Cup</td>
<td>50% of Tuition Fee</td>
<td>75% of Tuition Fee</td>
</tr>
<tr>
<td>National</td>
<td>25% of Tuition Fee</td>
<td>50% of Tuition Fee</td>
</tr>
</tbody>
</table>

State (with compulsory participation in National) - 25% of Tuition Fee

The candidate seeking admission under any of the above categories of sports shall be required to produce the relevant documents of proof of his/her participation & Medal Won. Sports Committee under Director-Sports will take the final decision regarding Scholarship. The scholarship under this category shall be given in the first semester and its continuation shall be decided by a committee constituted by the Competent Authority of the Institution/University.

NOTE:
- For purpose of Scholarship/tuition fee waiver, the marks will not be rounded off to the next higher figure and calculation of percentage of marks shall be made based on eligibility subjects in the qualifying examination (same number of subjects).
- Candidate can avail a maximum of one Scholarship at a time, amongst clause A, B, C, D, E & G as listed above.

**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 the 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.

Conditions for Continuation of Scholarship in Subsequent Years

Applicants must fulfill the following criteria for claiming the fee concession:

- The attendance criteria of the university
- Maintain a minimum CGPA of 7.0. However, if any student considered for fee concession in the first year fails in any of the subject, he/she may be considered for continuation of fee concession provided that he/she shall have to clear the subjects in the subsequent academic year failing which he/she may not be considered for the continuation of Fee Concession.
- Applicants should not have been suspended for any grave act of indiscipline by the university.
- No disciplinary action against the applicant is contemplated or pending in case of ragging or eve teasing.
- The applicant should not be receiving any other scholarship from any other source whatsoever, for which a certificate signed by student & parents is to be provided.

NOTE:
- For purpose of Scholarship/tuition fee waiver, the marks will not be rounded off to the next higher figure and calculation of percentage of marks shall be made on the basis of eligibility subjects in the qualifying examination (same number of subjects).
- In addition, suitable free ship shall be available to high achievers in the field of sports, persons suffering with Thalassaemia Major, sons/daughters of Army Personnel who have been killed in war/terrorist attack, physically handicapped students etc. on case to case basis.

**MERIT SCHOLARSHIP TO SEMESTER/BRANCH TOPPERS**

In order to motivate the students for better and sustained academic performance, MRU offers ‘Merit Scholarship to Semester/Branch Toppers’ already in place, for students bagging 1st, 2nd and 3rd positions in the Odd & Even semester exams (Based on the amalgamated SGPA/C.GPA) every year for each programme being run at MRU, as under:

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

The following are the guidelines for granting these Merit Scholarships:

1. Any programme must have strength of 90 or more in semester exam to qualify for first, second and third position scholarship, otherwise only a solitary topper shall be given a solitary first position scholarship.
2. If the strength of a course is 10 or less no scholarship will be awarded for that course.
3. A student shall be eligible to benefit for tuition fee waiver only from one source only.

**STUDENT STAFF & ALUMNI WELFARE FUND (SSAWF)**

1. The young and the budding talent in MREI should not go a begging for want of resources in the field of Technical Education, Research in Physical Science, Social Science & any other topic of topical interest emerging in the environment. To fulfill the ibid vision, the MRVF has taken a conscious decision to muster financial resources in the name & style of STUDENT STAFF AND ALUMNI WELFARE FUND (SSAWF).
2. The SSAWF resources would be utilized for accomplishing the under mentioned objectives.
a. Rendering financial assistance to students, staff and alumni for research and higher studies for improving the overall well being of the underprivileged and have knots of the society.

b. To provide financial assistance/scholarship to needy students for continuation of their higher studies.

c. To render assistance including ex-gratia payment to alumni for higher studies, distress and other contingency.

d. To honor MREI students, staff and alumni for their outstanding achievements in studies, profession, sports and entrepreneurship.

e. To provide financial and other resources for families of MREI owing to any natural calamity such as earthquakes, floods etc.

f. To provide financial support.

POLICY FOR WITHDRAWAL AND REFUND OF FEES

Refund of fees is governed in accordance with the guideline issued by UGC/AICTE from time to time.

- UGC guidelines for other than technical programmes as mentioned above is applicable as per UGC notification on refund of fees and non retention of original certificates letter dated: 2nd November, 2018 and notifications from time to time.

These guidelines are available on MRU website- http://manavrachna.edu.in/university/ Candidates may withdraw their admission by submitting a request of withdrawal application in person along with the original copy of Admission letter, Receipt of the fee deposited and Temporary identity card issued at the time of admission to the office of the Registrar, MRU (To be chance through Deputy Registrar, Registration & Scholarships, MRU in Block-H, Ground Floor, MRU Campus for which he/she must obtain acknowledgement.

Correspondence in respect of refund of fee against withdrawal shall not be entertained until and unless it is in reference to the Acknowledgement No. and Date given by the Deputy Registrar, Registration & Scholarships, MRU at the time of receipt of Withdrawal application.

A student admitted in the MRU shall be required to pay the fee for the entire duration of the course on annual basis in two installments. If a student is detained due to whatsoever reason, he/she shall be required to pay the fees again, when he/she is re-admitted, as per rules/policy.

Once a candidate has been admitted and has reported to respective faculty, all further dealings including withdrawal are to be made through the respective head of the faculty/Registrar of the MRU.

INSTRUCTIONS FOR CURBING RAGGING

As per orders of the Hon'ble Supreme Court, UGC Regulations on curbing the menace of Ragging in Higher Educational Institutions, 2009 and The Haryana Prohibition of Ragging in Educational Institutions Ordinance, 2012 (available on the Manav Rachna Website)

RAGGING IS A GRIEVOUS OFFENCE.

Any one indulging in ragging will be severely punished. The punishment may take the form of expulsion from the Institution, suspension from the Institute or classes for a limited period or fine with a public apology.

The punishment may also take the shape of (i) Reporting to the police and lodging an FIR (ii) Withholding scholarships or other benefits, (iii) Debarring from representation in events, (iv) Withholding results, (v) Suspension or Expulsion from hostel or mess, and the like. If the individuals committing or abetting ragging are not/cannot be identified, collective punishment may be awarded to act as a deterrent. All cases of ragging will be referred to Anti Ragging Committee of the Institution. All affected students are at liberty to approach Anti Ragging Committee/ Squads on Telephone Numbers prominently displayed in the Institution.

The following will be termed as the act of ragging:

Any disorderly conduct whether by words spoken or written or by any act, which has the effect of teasing, treating or handling with rudeness any other student(s), indulging in rowdy or in-disciplined activities which may cause or are likely to cause annoyance, hardship or psychological harm or to raise fear or apprehension thereof in fresher or junior student(s) or asking the student(s) to do any act or perform something, which such student(s) will not do in the ordinary course of the physique or psyche of a fresher or a junior student.

Students are at liberty to approach Anti Ragging Committee of the Institution. All affected individuals committing or abetting ragging are not/cannot be identified, collective punishment may be awarded to act as a deterrent. All cases of ragging will be referred to Anti Ragging Committee/ Squads on Telephone Numbers prominently displayed in the Institution.
ATTENDANCE RULES
A student shall be required to have a minimum attendance of 75% in each subject (80% in case of programmes offered by Faculty of Education as per NCTE) to be eligible for taking end semester examination. Student who has been detained due to shortage of attendance shall not be allowed to appear for end-semester examination for the subject in which he/she fails to attain the minimum required attendance. Under such circumstances he/she shall be required to repeat all such subjects for which he/she is declared ineligible on account of shortage of attendance, through re-registrations for such subjects during subsequent semesters when the same are offered by the respective departments after paying the notified fee. The Institution enrolment number of such student shall however remain unchanged and he or she shall be required to complete the programme in a maximum permissible period as applicable to the programme he/she is registered in.

In case any student appears by default, who in fact has been detained by the Faculty, his/her result shall be treated as null and void. The students are advised to ensure that they meet the minimum attendance requirement for appearing in the semester end examination failing which they shall not be allowed to sit in the examination.

CODE OF CONDUCT
Students are advised to maintain utmost expected discipline in and outside the University Campus. Disturbance of tranquility of the Campus in particular and society in general, through any means shall be treated as an act of indiscipline and suitable disciplinary action shall be taken against the defaulting students. Students are also advised to dress appropriately, while in campus, as per the demands of the occasion.

The University has zero tolerance for indiscipline in and outside the campus by the students. Drinking, taking drugs, damaging Institution property, indulging in any kind of violence, misbehaving with fellow students/teachers, ragging etc. are included in the list of undesirable activities and constitute the moral turpitude. Very strict action including suspension/rustication from the roles of the Institution may be taken against the defaulting students.

The admission made by MRU shall be provisional, till the same is confirmed by the Registration Branch of the Institution. If the University Authorities are not satisfied with the character, past behavior and antecedents of a candidate, they may refuse to admit him/her in the University. In order to ensure academic standards, discipline and congenial atmosphere in the University, the Vice-Chancellor of the University/Dean of the concerned Faculty may cancel the admission of any student who is found to be involved in activities which are prejudicial to maintaining harmony on the campus.

Grievances Redressal Committee: The University has a streamlined method of redressal of students' grievances. Departmental Students Grievance Redressal Committees at Departmental Level and Institutional Grievance Redressal Grievance Committee at University Level have been constituted to look into the grievances of students as per UGC Regulations 2019 on the subject. Online Grievance Redressal system is also created through ERP for making of complaints online and its redressal. The Committees address all kinds of grievances including those pertaining to admissions, examinations, conduct on the campus etc. on top priority.

Internal Complaint Committee: Internal complaint committee has been setup by the University for inquiring into complaints that fall under the definition of sexual harassment as per regulations on Sexual Harassment of Women (Prevention, Prohibition and Redressal) at work place. The Committee deals with all such issues on utmost priority.

The candidates who are admitted in the University would be required to follow all rules and regulations in letter and spirit, conduct themselves in an orderly manner and maintain the best decorum, failing which suitable penal action would be taken against them. Canvassing in any form for influencing the admission by any candidate and/or his/her parents/guardians would result in his/her summary rejection for admission. The admission procedure is subject to modification, without notice, as per directions of UGC or any competent authority.

All applicants are instructed to follow the MRU website on a regular basis for date of counseling and other details related to the admission process.
Ayush Sharma, B.Tech.-CSE, Executive League Operations- NO DWIN Gaming and ESL India.
'I would like to whole heartedly thank all my faculty members, who left no stone unturned in providing me the right resources and environment which eventually led to me getting placed in my dream company.'

Ankit Pruthi, B.Tech.-CSE, Senior Executive- Deloitte.
'The friendly teachers have constantly guided me to reach my goals with the experience and exposure I got here. My skills to work in such a competitive corporate environment have been enhanced.'

Sunakshi Mehta, B.Tech.-CSE, Director- Website Sketchers Pvt. Ltd.
'We had our share of enjoyment and excitement at MRCE, be it academics, technical or cultural activities. Hats off to all the Professors, who went out of the way to teach us. "I Will Forever Be Grateful".'

Sahil Verma, B.Tech.-CSE, Senior Software Developer-Accenture,
'Awarded with the Apex Award-Accenture.
'The major credit for such an achievement goes to my project team, MRU and the Faculty members who laid such a strong foundation that it helped us to imbibe leadership and ownership qualities to top in life.'

Paras Dhawan, B.Tech.-CSE, Consultant Programmer- International Civil Aviation Organization-(UN), Montreal, Canada.
'Manav Rachna laid the foundation of my career as a software developer. I still carry all the values and principles given to me by professors who helped me a lot in setting my goals and working toward them overseas.'
Ankur Juneja, B.Tech.-CSE, Software Engineer- LabKey, San Diego, California.
'It was a great experience being at Manav Rachna. The Faculty is very supportive and highly qualified. Assignments given by the faculty in various courses were very helpful.'

Tarush Jain, B.Tech.-CSE, Computer Science Engineer- WAPCO S.
'Manav Rachna not only gave me the technical knowhow of my field of study but also gave me ample opportunities and freedom to work on my own startup while I was in College.'

Esha Kaushal, B.Tech.-IT, Senior FRS Analyst- Target.
'Manav Rachna helped me to shape my personality, infused self-confidence and made me ready to face the professional world. I truly respect and admire all which the institute has provided me.'

Aditya Kushwaha, B.Tech.-CSE, Lead Android Engineer- Stylight, Munich Germany
'The freedom in the final year project selection and execution allowed to pick up industry technologies and create a project that not only helped me with my college grades but helped me fetch my current job.'

Varun Arora, B.Tech.-IT, Co-founder- Cafe de Rock & The House of Artisans, Gurgaon.
'The overall atmosphere has instilled a deep sense of confidence in me which helps me in everything I do. Brilliant guidance & a culture based on encouraging ideas & creating ownership exists here.'

Kriti Dhall, B.Tech.-CSE, Senior Consultant-DXC Technology, Copenhagen, Denmark.
'MRCE has helped me learn about myself in many ways and finding the right balance between work and fun. Nowhere else will the faculty go to such lengths to help, educate, nurture and inspire their students.'

'MRCE gave me enough exposure in different areas via varied activities for all round development. This helped me acquire not just necessary technical but other softer skills, essential for success.'

Ikshith Puri, B.Tech.-CSE, Senior Manager Analytics-O ptum, Schaumburg Illinois U.S.
'Manav Rachna is my second home; this institution is a perfect blend of imparting knowledge and providing opportunities to be what I am today. I credit Manav Rachna for perfecting me.'

Shailendra Sadh, B.Tech.-CSE, Sales Engineer- Splunk.
'I was part of the first batch of MRCE, so the experience was great! The journey at MRCE was a great one! I have grown.'

Raghav Rastogi, B.Tech.-ECE, Design Engineer Trainee- Truechip Solutions Pvt. Ltd.
'Thanks to Manav Rachna University, my faculty and the department, all because of them I was able to imbibe the required knowledge and get the opportunity to work in Truechip Solutions Pvt Ltd.'

Dhruv Sharma, B.Tech.-ECE, Intern Application Engineer- Cadence.
'Manav Rachna University gave me an appropriate platform to enhance my skills via the faculty and other facilities. My Department has helped me accomplish my goals in life and build a successful career.'

Rahul Sharma, B.Tech.-ECE, Member Technical Staff- Mentor Graphics.
'The department of ECE, Manav Rachna University made me realize my interest in the area of Electronics, Chip Design, VLSI, integrated Circuits. I extend my gratitude towards all at the University.'

Tushar Gupta, B.Tech.-ME, Mechanical Engineer- Krishna Maruti.
'Manav Rachna is a small world in its own. Overall, I have bloomed in life and career because of it.'

Shivam Mahajan, B.Tech.-ME, Mechanical Engineer- Stryker Corporation.
'Manav Rachna is a stage that gives you ample opportunities for future. My journey has been phenomenal here. I have fortunate to be placed in Stryker Corporation, US based Fortune 500 Company.'

Shivam Bansal, B.Tech.-ME, Mechanical Engineer-TATA Steel, Mechanical Engg. B.Tech. (ME) degree at MRU gave me the platform to challenge and improve myself, meet smart people with innovative thinking. Being able to think critically and evaluate id.5as made me invaluable.'

Ayush, B.Sc.(H)-Maths, Application Development Associate- Accenture.
'The hands-on sessions of mathematical & statistical software during lab hours at the Department of Mathematics has helped in carving out new career avenues.'

Drishti Mittal, M.Sc.-Chemistry, Officer- Federal Bank.
'I have experienced & learnt a lot with expert Professors at Manav Rachna who have been very supportive, knowledgeable and have always provided courage and cooperated in all situations.'

'Manav Rachna provided us industrial exposures through industrial visits and internships. It helps us to learn many analytical techniques and professional lab-work ethics.'
MRU ACHIEVERS: SUCCESS STORIES

“We believe in molding the students' experience and creating success stories”

Roopam Sharma (B.Tech. CSE 2012-16)
- Indian Scientist's Brilliant Innovation ‘Manovue’ World Health Summit Start-up Award 2018 (Berlin)
- India’s top innovators under 35, winner of the Microsoft Imagine Cup 2015 & Yahoo Accenture Innovation Jockeys season 4
- National Youth Award by Ministry of Youth Affairs and Sports
- Represented India in the global finals of MIT’s Global Start-ups workshop (MIT GSW) Business Plan Competition
- Winner of Microsoft Youth Spark Challenge for Change, 2015-World Championship.

Neeraj Saini (B.Tech. ECE 2013-17)
- Pursuing MS from MIT Media Lab
- Invited by University of Pennsylvania to participate in Fall's Penn Apps event.
- Invited to showcase his R&D work at the HUB week.
- World finalists for the Tomorrow challenge 2016.
- Represented India in the global finals of MIT’s Global Start-ups workshop (MIT GSW) Business Plan Competition
- Winner of Microsoft Imagine Cup National finals 2015. Represented Country at the International finals held at Seattle, Winner of Yahoo Accenture Innovation Jockeys 4

Prashant Gupta (B.Tech. ECE 2011-15)
- Placed With Amazon, USA
- Represented the country at Microsoft Imagine Cup International finals 2013 at St. Petersburg Russia, under Innovation and World Citizenship Category for project Swasthya Sanjiwani
- Winner of People's Choice Award, Dell Social Innovation Challenge, 2013
- Shortlisted for the DELL Women empowerment challenge, 2013, World Semifinals
- First Runner up for Microsoft Imagine Cup, National Finals, 2014 under Innovation Category for Project Movaid
- World Finalist in Intel perceptual challenge, 2013 for Project Smart Shopping
- Presented Research paper at IEEE International conference in Milan in July 2015

Akshita Sachdeva (B.Tech. CSE 2012-16)
- Co-Founder of Company Trestle Lab, an Assistive Technology company transforming the way People with Print and Learning disabilities read and learn
- Honored with the Geek Goddess by TechGIG in March 2017 (Techgig is India's Largest online Tech Community, where you can learn, update your skills, compete with fellow techies and get your dream job.)
- Winner of Microsoft Imagine Cup National finals 2015, and represented Country at the International finals at Seattle
- Winner of Yahoo Accenture Innovation Jockeys season 4 for the project Manovue (the World's first Intelligent personal assisting system for the visually impaired)
- Category winner of Yahoo Accenture Innovation Jockeys season 3 for the project Saviour Suit and got an opportunity for a direct interview with Accenture

Himanshu Sehgal (B.Tech. CSE 2008-12)
Chief Foodie My Yellow Plate
- “My Yellow Plate” has been featured on INDIA.COM, Huffington Post, Scoopwhoop, Lonely Planet, Tripoto, Deccan Chronicle, StoryPick, India Today, The Quint, Rediff, ThaScoop etc.
- Awarded by The Lalit Hotels & SoDelhi at SoDelhi Confluence 2016
- Awarded by Delhi Technological University at “O ut of the Box-2017”
- Awarded by Manav Rachna Educational Institutions (Journey from an Engineer to a Traveler)
MOTIVATION AND REWARDS

MRU aims to make a difference in the accomplishments and success of its students. Through Awards & Medals to the deserving students, Manav Rachna provides an opportunity to be the catalyst that sets its students on an upward path. By motivating, rewarding and honoring them, we encourage students to set high goals and meet the challenges with stretched limits.

Teach them the value of persistence. And perhaps, inspire a lifelong passion for learning.

AWARDS & MEDALS:

i) President Medal: This medal will honor a student who has evidenced significant achievement at International level in the following areas:
   1. Research
   2. Sports
   3. Creative arts
   4. Community involvement
   5. Professional

ii) Vice President Medal: This medal will honor a student who has evidenced significant achievement at National level in the following areas:
   1. Research
   2. Sports
   3. Creative Arts
   4. Community involvement
   5. Professional

iii) Patron Medal: Awarded to a female student who best exemplifies the attributes of engaged leadership; inexhaustible optimistic aptitude about challenges and opportunities, integrity, courage and honesty.

iv) Vice Chancellor Medal: This medal will honor a student who has successfully passed out and has the best academic record (highest CGPA) in the University examinations across all UG Programmes offered by the University.

v) Academic Proficiency Medal: Awarded to highest scorer student who has successfully completed the program. This is applicable for each program.

vi) Student Leadership Medal(s): Awarded to student(s) who has/ have evidenced ability to motivate other students and has/ have successfully lead terms for specific organizational goals.

vii) Outstanding Achievers Awards in the Area of:
   1. Research
   2. Sports
   3. Creative Arts
   4. Community involvement
   5. Best Internship/ Placement.

viii) Law student of the year Medal - Freedom Fighter Shri Ratan Lal Lahoti Gold Medal shall be awarded to a Law Student of the year, for his/her overall academic performance and excellence in during the 5 years at Law Faculty.
MANAV RACHNA CITY OFFICES

KOTA: UG-17,18 Bagherwal Four Seasons, Opp. City Mall, Jhalawar Road, Kota, Rajasthan. Phone: 0744-2414066, 07822888513, 09910244484, Email ID: manoj.mriu@gmail.com

CHANDIGARH: SCO -144-145, 4th Floor, 403 Sec. 34-A, Chandigarh. Phone: 0172-4643366, 09910244484, Email ID: chandigarh@mriu.edu.in

DELHI: 1007, KLJ Tower (North), NSP Pitampura, New Delhi. Phone: 011-44110500 (30 lines), 09910244484, E-mail ID: delhi@mrei.ac.in

GUWAHATI: Near Rajdhani Masjid, Hatigaon Main Road, Dispur, Guwahati. Phone: 09864078779, 08811091551, 09910244484, Email ID: guwahati1.mriu@gmail.com

INDORE: 114, 1st Floor, Above Gordhan Thal, Tulsi Tower, Geeta Bhawan Square, A B Road, Indore, Madhya Pradesh. Phone: 0731-4050399, 9910244484, Email ID: indore.mrei@gmail.com

LUCKNOW: S-82, 1st Floor, Gole Market, Maharajgan (Opp.-Police Station), Lucknow. Phone: 09792495605, 0522-4073555, 09910244484, Email ID: rizvi.mriu@gmail.com

PATNA: 5th Floor, Ram Ratan Tower, Near Pillar No.81, Sheikhpura, Bailey Road, Patna. Phone: 09608095599, 09546673623, 09910244484, Email ID: patna@mrei.ac.in

RANCHI: Balbir Complex, 3rd Floor, Above ICICI Bank, Main Road Hinoo, Ranchi. Phone: 9693244934, 9334720030, 9910244484, Email ID: ranchi@mrei.ac.in

HYDERABAD: No.49, 3rd, SR Nagar Main Road, Sanjeeva Reddy Nagar, Hyderabad. Phone: 7730927949, 8919213559, 09910244484, Email ID: hyderabad@mrei.ac.in

VIJAYAWADA: Krishna Nagar, Do. no: 40-3-10, Opp. Raja Gas Company, Manor Food Plaza Opp Road, Vijayawada. Phone: 8919213559, 7730927949, Email ID: hyderabad@mrei.ac.in

KATHMANDU: Indo Global Foundation, CRT Building, 3rd Floor, Opp. Macchapuchara Bank, Patalisadak, Kathmandu, Nepal. Phone: +977-9851087225, 09910244484, Email ID: Kathmandu@mrei.edu.in