



MANAV RACHNA UNIVERSITY

ANNUAL REPORT 2023-2024

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“Manav Rachna”

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

“Vidyantariksha”

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



OFFICERS OF THE UNIVERSITY



Chancellor
Dr. Prashant Bhalla



Vice Chancellor
Prof. (Dr.) I. K. Bhatt



Vice President, MREI
Dr. Amit Bhalla



**Pro Vice Chancellor
Prof. (Dr.) Sangita Banga**



**Registrar
Dr. Kameshwar Singh**



**Dean Academics & Dean Research & Consultancy
Prof. (Dr.) Shruti Vashist**



**Dean Students Welfare
Prof. (Dr.) Geeta R Thakur**



**Proctor
Dr. Jaiprakash**



**Dean Examination
Prof. (Dr.) D. K. Sharma**



**Deputy Controller of Examination
Ms. Shefali**

Deans of School



Dean School of Education and Humanities
Prof. (Dr.) Sangita Banga



Dean School of Sciences
Prof. (Dr.) Meena Kapahi



Dean Engineering
Prof. (Dr.) Goldie Gabrani



Dean School of Management and Commerce
Prof. (Dr.) Parul Jhajharia



Dean School of Law
Prof. (Dr.) Kanu Priya

Executive Summary

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 the Government of Haryana. The University evolved from Manav Rachna College of Engineering (MRCE), which was established in 2004. The Campus is spread over approximately 10.48 acres with a built-up area of about 21982.46 sq.mts. University campus just 15 Km away from South Delhi, provides state-of-the-art facilities and ambience for a conducive learning environment.

A well-established teaching and learning process guided by global best practices and a culture of academic excellence promoting research, innovation & and entrepreneurship. Programs offered at the School of Engineering, School of Law, and School of Education and Humanities are approved by the respective regulatory bodies like AICTE, BCI, NCTE & and RCI.

Manav Rachna University is among the Top 2 Emerging Engineering Institutions of India and has been ranked the No. 1 Engineering Institution in India for Research Capability & Placements in the Times Engineering Survey 2022. The University has been bestowed with QS I-GAUGE, overall DIAMOND rating. It has received QS I-GAUGE DIAMOND RATING for Excellence in Teaching and Learning, Faculty Quality, Facilities, and Social Responsibility, and QS I-GAUGE PLATINUM RATING for Employability and Academic Development.

Manav Rachna University has been recognized as a valuable Swayam-NPTEL local chapter with rating of 'A'. Innovation Incubation Council (IIC) of MRU established under AICTE-Ministry of Innovation Cell, GOI received 3 Star Rating for the year 2021-22. University has collaborated with the leading universities and Institutions both at global and national level for delivering the best education to its students. It has strong industry connections for the design and delivery of various courses.

The University has undertaken a comprehensive curriculum enhancement, aligning itself with contemporary trends and staying abreast of cutting-edge developments. The academic program now encompasses an array of innovative courses, including but not limited to Artificial Intelligence, Machine Learning, Data Analysis, Mechatronics, Robotics, Nanotechnology, Financial Management, and HR Management. This strategic evolution is geared towards equipping students with the skills necessary for leadership roles in the future.

At MRU, the educational methodology is thoughtfully designed to instill students with a strong grounding in fundamental principles, enabling them to skillfully apply theoretical knowledge to real-world complexities. Additionally, the curriculum empowers students with the ability to

conceptualize, build, and analyze a wide range of products, processes, and systems. The pedagogical framework is inspired by global best practices, ensuring a meticulous alignment with the development of Global Graduate Attributes as endorsed by reputable professional bodies and 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. Learner Centric Education with latest pedagogical approaches like active learning, collaborative and cooperative learning and agile methodology ensures holistic development of graduates who understand the impact of their actions/ decisions on the society and environment.

The University is committed to making Sustainable Development a focal point for Research and Innovation. Graduate students undergo research training that equips them to be the next generation of leaders, well-prepared to advance knowledge and facilitate the transfer of technology. Industry collaboration is fostered through Live Projects, providing undergraduate students with opportunities to work on real-world challenges and develop innovative solutions. The creation of new knowledge by both students and faculty through research and innovation is actively shared with the wider community. This dissemination is achieved through the publication of books, research papers in reputable journals, and the filing of patents. The dedication and hard work of faculty and students are recognized through awards and accolades received at various forums. Understanding the significance of entrepreneurial skills, the University has established a Business Incubation Centre, reinforcing its dedication to fostering and endorsing entrepreneurial initiatives within the academic community.

The University consistently solicits feedback from all stakeholders, thoroughly analyze it, and implement necessary actions. Acknowledging the imperative for quality assurance, we have implemented appropriate measures in that regard. Our commitment to transparency in all operations and a steadfast emphasis on honesty and sincerity has earned us respect, establishing the University as the preferred choice for both faculty and students in Northern India.



CHAPTER: 1

ABOUT THE UNIVERSITY

1.1 Approval of Statutory Bodies

Manav Rachna University is a State Private University (established by Haryana State Legislature Act No 26 of 2014 & under section 2(f) of UGC Act 1956). The University has evolved from Manav Rachna College of Engineering (MRCE), a NAAC Accredited 'A' Grade institute.

1.2 Vision

Manav Rachna University envisions to educate students in frontier areas of knowledge enabling them to take up challenges as ethical and responsible global citizens.

1.3 Mission

- To impart outcome-based holistic education
- To disseminate education in frontier areas
- To produce globally competitive, ethical, and socially responsible human resources
- To produce human resources sensitive to issues of Environment and Sustainable Development
- To develop Environment and Sustainable development as thrust area of research and development.

1.4 Governance

Manav Rachna University is guided and mentored by robust committees of stalwarts across academic, administrative and financial verticals. The boards and committees, their distinguished members and other important details are listed as follows: members and other important details are listed as follows:

S. No	Boards and Committees
1.4.1	Governing Body The Governing body is the highest decision-making authority of the University. All the movable and immovable property of the University vests in it. The Governing Body provides general superintendence and direction to the University and in particular, regulates and controls the functioning of the University by the provisions of the applicable Acts, Statutes, Ordinances, Rules, Regulations, Notifications and Orders etc. The 19th Governing Body was held on 17.12.2022 and 20th was held on 03.06.2023 In the academic year 2022-23. Members 1. Dr. Prashant Bhalla, Chancellor/Chairman 2. Dr. Amit Bhalla, Vice President, MREI 3. Prof. I.K. Bhat, Vice Chancellor 4. Dr. Anita Chaudhary, IAS (Retd.) Former Secretary, GOI 5. Dr. Sunidhi, Principal, Nominee to secretary GCG Faridabad 6. Sh. Amit Kumar, FCA 7. Col. (Retd.) V.K. Gaur, Advisor, MREI 8. Dr. N.C Wadhwa, DG, MREI 9. Prof. Sanjay Srivastava, VC MRIIRS 10. Shri Manish Kumar Ex-MD and CEO NSDC

	11. Prof. Sangita Banga, PVC, MRU 12. Prof. Shruti Vashist, Dean Academics, MRU 13. Dr. Kameshwar Singh, Registrar, MRU, Member Secretary
1.4.2	Board of Management The Board of Management (BoM) is the Chief Executive body of the University and works under the overall directions of the Governing Body. The role of BoM is to establish and monitor the achievement of the University's mission and Objectives. This includes, formulation and monitoring of academic standards, benchmarks and goals; establishment of academic and research units; supervision of the University's finances and budgetary processes; conducting institutional performance evaluations; compliance of the University's statutory and regulatory responsibilities; liaison with external agencies and evaluation of the performance of the senior University functionaries. In the academic year 2022-23 the 20th BOM was held on 17.12.2022 and 21st on 03.06.2023. Members 1. Prof. I.K. Bhat, Vice Chancellor, MRU- Chairperson 2. Dr. Amit Bhalla, Vice President, MREI 3. Prof. (Dr.) V.K. Mahna, Ex-Pro-VC, MRU 4. Sh. Rajeev Kapoor, ED & Group HR-Head, Uno Minda Industries 5. Mr. Navdeep Chawla, President – MD Psychotropic India Ltd 6. Shri Manish Kumar Ex-MD and CEO NSDC 7. Dr. Sunidhi, Principal, Nominee to secretary GCG Faridabad 8. Prof. Sangita Banga, PVC, MRU 9. Prof. Shruti Vashist, Dean Academics, & Dean Engineering MRU 10. Prof. Pardeep Kumar Varshney, Dean-Research, MRU 11. Dr. Meena Kapahi, Professor, Chemistry 12. Dr. Sudish Shukla, Professor, Chemistry 13. Dr. Kameshwar Singh, Registrar, Member Secretary
1.4.3	Academic Council The Academic Council is the principal academic body of the University. It exercises general supervision over the academic policies of the University, subject to the provisions of the Act, Statutes, Ordinances of the University, The Academic Council is responsible for evaluation and approval of overall educational policy, academic degree programs, requirements for admission, academic honors and awards etc. at the University. In academic Year 2022-23 the Academic Council met thrice for 19th AC on 10.12.22 and 21st AC on 30.5.2023 Members 1. Prof. I.K. Bhat, Vice Chancellor-Chairman 2. Prof. Raj Senani, Professor Emeritus & Former Director, NSIT now, Netaji Subhash University of Technology, Delhi 3. Prof. M.L. Singla, Fmr Professor, Faculty of Management Studies, University of Delhi 4. Prof. Vikram Goel, Professor, Computer Science and Engineering, IIIT Delhi, Delhi 5. Prof. (Dr.) S.K. Garg, Professor, Delhi Technical University 6. Dr. Kanupriya Sachdeva, Professor, MNIT, Jaipur 7. Prof. Sangita Kansal, Delhi Technological university, DTU 8. Dr. V.K. Ahuja, H'VC, NLU and Judicial Academy, Delhi 9. Prof. D. Kumar, Professor, Chemistry, DTU 10. Prof. Anita Rastogi, Professor, JMI, Delhi 11. Prof. Sangita Banga, PVC 12. Prof. Parul Jhajharia, Dean-Management and Commerce, MRU 13. Prof. Pardeep Kumar Varshney, Dean-Research, MRU 14. Prof. Kanupriya Dean-School of Law, MRU

	15. Dr. Geeta Thakur, DSW, MRU 16. Prof. Shruti Vashisht, Dean Academics and Engineering, MRU 17. Dr. Hanu Bhardwaj, HoD, CST 18. Dr. Pragati Chauhan, HoD Mgmt 19. Dr. Arpit Sand, Prog.Head Chemistry 20. Dr. Rashee Singh, HoD, Education and Humanities 21. Dr. S.K. Bose, Associate professor, Law 22. Dr. Subodh Saluja, Associate Professor, Management 23. Dr. Charu Pathak, HoD, ECE 24. Shri Joginder Singh, HoD, M.E. 25. Dr. Savita Sharma, Asso Professor, Education 26. Dr. Jyoti Pruthi, Professor, CSE 27. Dr. Sandeep HoD-Physics and Sciences 28. Dr. Aparna Vyas, Prog Head Maths 29. Dr. Meena Kapahi, Professor, Chemistry 30. Dr. Deepa Arora, Assoc. Prof. Maths 31. Prof Susmita Ray, Professor, CSE 32. Dr. Manpreet Kaur, HoD CSE 33. Dr. K. Singh, Registrar (Member-Secretary)
1.4.4	Finance Committee The Finance Committee is the principal financial body of the University. The main task of the Committee is to take care of the Financial matters of the University. In academic year 2022-23 the Finance Committee met twice i.e. on 10th December 2022 and 29th March 2023. Members 1. Prof (Dr.) I.K Bhat, Vice chancellor 2. Dr. Amit Bhalla, Vice President, MREI 3. Mr. Atul Kalra, Director Administration w.e.f 08.08.2022) 4. Prof. Sangita Banga & Dean Academics, MRU 5. Sh. Amit Kumar, FCA 6. Dr. Kameshwar Singh, Registrar MRU 7. Mr. S. K. Jha), Chief Finance & Accounts Officer, Member Secretary
1.4.5.	Advisory Board School of Law The Advisory Board is constituted to advise, guide, supervise, and steer the holistic growth of the faculty of law to take it to greater heights. In the academic year 2022-2023, the Advisory Board met on 06th April 2023. Members 1. Hon'ble Mr. Justice UU Lalit, (Former Chief Justice of India) Chairperson 2. Hon'ble Ms. Justice Gita Mittal (Former Chief Justice of J&K HC) Member 3. Hon'ble Mr. Justice KK Lahoti (Former Acting Chief Justice of MP HC) Member 4. Hon'ble Mr. Justice Kailash Gambhir (Former Judge, Delhi HC) Member 5. Hon'ble Mr. Justice Rajive Bhalla (Former Judge, P&H HC) Member 6. Mr. Atmaram Nadkarni (Senior Advocate) Member 7. Mr. Arvind P. Datar (Senior Advocate) Member 8. Mr. Ravindra Shrivastava (Senior Advocate) Member 9. Mr. Parag Tripathi (Senior Advocate) Member 10. Mr. PK Malhotra (Former Law Secretary), Member 11. Mr. Gourab Banerji (Senior Advocate) Member 12. Mr. Vinay Bhasin (Senior Advocate) Member 13. Mr. Sanjeev Sharma (Senior Advocate) Member 14. Mr. Gopal Jain (Senior Advocate) Member 15. Mr. Ashok Gupta (Senior Advocate) Member 16. Mr. Jasbir Singh Bajaj (Retd. IAS) Member

	17. Mr. RK Bajaj (Former IT Commissioner) Member 18. Mr. Sudhir Sharma (Senior Partner DSK Legal) Member 19. Mr. Shashank Garg (Advocate & Convenor) Member 20. Mr. Divyakant Lahoti (AOR) - Special invitee
1.4.6	Advisory Board Manav Rachna Centre for Peace & Sustainability The Advisory Board is constituted to advise, guide, supervise, and steer the holistic growth of the Centre to take it to greater heights. Members 1. Dr. Karan Singh (Indian politician, philanthropist and poet), Chairman 2. Dr. Prashant Bhalla, Chancellor 3. Dr. Amit Bhalla, Vice President, MREI 4. Hon'ble Mr. Justice R.C. Lahoti (Former CJI) 5. Swami Gyananandji, Spiritual Guru, G.I.E.O. Gita & Shri Krishan Kripa Sewa Samiti 6. Dr. Ved Prakash, Former Chairman, University Grant Commission 7. Dr. Muzaffer Ahmad, Former Director General health Govt of J&K 8. Dr. Rajendra Shende, Chairman Terre Policy Centre 9. Dr. Meenakshee Gopinathan, Indian educationist, political scientist, writer 10. Prof (Dr.) I.K Bhat, Former - Vice Chancellor-MRU 11. Prof. (Dr.) Sanjay Srivastava, VC MRIIRS 12. Dr. Anand Prakash, Professor & Head, Department of Psychology, Delhi University 13. Mr. Vishesh Gupta, Chairperson and Board of Directors of Bharat Soka Gakkai (BSG) 14. Dr. Jyotsna Singh, Director, Dara Shikoh Centre, J & K. Amar Mahal Museum & Library, J & K 15. Dr. Sushila Bhan, Chairperson, Institute for Peace Research & Action 16. Lt. Gen S. P. Kochhar, Retired Signal Officer in Chief- Indian Army 17. Er. Anuj Sinha, Chairman of the Board at Network of Organisations for S&T Communication 18. BK Binny Sareen, Peace Ambassador, Spiritual Leader 19. Dr. Geeta Thakur (Member Secretary)

1.5 Other Committees of the University

A well-organized University set up requires a lot to be monitored for smooth functioning and overall excellence. To name a few, attendance, feedback, and course uploading in this regard. Managing this entire gamut is not a one-man show but it requires a collaborative effort from all staff members. University therefore works in a more decentralized manner through its various committees. These committees are empowered, have more autonomy and thus help in quick decision making. All the committees are headed by coordinators with defined roles and responsibilities to perform.

COMMITTEES		
Committee Name	Coordinator & Team Members	Roles and Responsibility
Board of Discipline (Vide office order dated 06.09.2022)	Prof. S.K. Shukla – Proctor	To consider the matter concerning the maintenance of discipline among the students in the University

	HoD concerned and Hostel warden to which act of indiscipline pertain – Member	To enquire into the act of indiscipline or misconduct committed by a student(s) whenever such cases are referred to the Board of Discipline and to submit their findings, conclusions, and recommendations for the quantum of punishment under the provision of this ordinance.
	Dr. Sandeep Kumar, Associate Professor, Physics- Member	To supervise and monitor the discipline ecosystem prevailing in the University
	Prof. Ajit, Associate Professor, ME	To maintain liaison with the police authorities and concerned departments of the Government, neighboring institutions, and the authorities of the University regarding the maintenance of law and order in the University.
	Dr. Yogita Khanna Associate Professor – Member	To organize counseling sessions and liaise with parents of the guardians of the students.
	Mr. Bhartendu Aggarwal Assistant Professor-Law	To perform such other functions as may be assigned to it by the Vice Chancellor from time to time.
	Ms. Shefali Chopta, DR (Academics), Member Secretary	
Annual Report 22-23 vide office order dated 08.06.2023	Mr. A.K. Mishra, Sports Office and Manager Operations- Permanent Invitee	
	Prof. Shruti Vashist Dean Academics – Chairperson	The committee shall function under the overall supervision and patronage of the Dean Academics and will be required to submit the Draft Annual Report within two months time.
	Dr. Deepa Arora, Assoc. Prof. Maths, Prof. CSE- Convenor.	
	Dr. Aastha Mehta, Assoc. Prof. Law	
	Dr. Ritu Sharma- Asstt. Professor Edu. – Member	
	Dr. Niharika Thakur, Asstt. Professor, ECE- Member	

	Ms. Sampriti Phukan, Asstt. Prof law- Member	
	Ms. Chandni Magoo, Asstt. Professor CSE – Member	
Anti-Ragging Committee	Prof. Shruti Vashist- Chairperson	To make surprise raids on hostels, and other vulnerable places having the potential of, ragging and will be empowered to inspect such places To conduct an on-the-spot inquiry into any incident of ragging referred to it by the Head of the University or any member of the Faculty or any member of the staff or any student or any parent or guardian or any employee of a service provider or any other person
	Prof. Manpreet Kaur- Member	
	Prof. Charu Pathak- Member	
	Prof. Joginder Singh- Member	
	Dr. Pragati Chauhan- Member	
	Dr. Sandeep Kumar- Member	
	Dr. Rashee Singh- Member	
	Dr. Aditi Chaudhary- Member	
	Dr. Kameshwar Singh	
Grievance Redressal Committee	Prof. Sangita Banga, Dean Academics- Chairperson	The Committee shall deal with all the Grievances directly which are related to the common problems at Department/ University level both Academic and Administrative.
	Prof. Shruti Vashist	
	Prof. D. K. Sharma	
	Mr. Ajit Katiyar, Proctor	
	A representative of the students (to be nominated by the Chairperson)	
Internal Complaint Committee	Prof. Kanupriya, Dean- Law, -Chairperson	Ensure awareness and orientation on the sexual harassment at work place
	Prof. Manpreet Kaur, HoD, CST	Ensure complaint committee is trained in both skill and capacity.

	Prof. Tanushri Purohit, Professor, MGMT	Prepare an annual report and report to the Vice Chancellor
	Dr. Sanjay Singh, Assoc. Professor,	
	Dr. Archana Bhatia, Chairperson, Nari Uthan Shikshan Shashaktikaran – Member	
	Ms. Sakshi Choudhary, Coordinator, Education	
	Mr. Bharat Bhushan, Sr. Executive (Academics)	
	Dr. Archana Bhatia, Chairperson, Nari Uthan Shiksha Shashktikaran	
	Three Students (Comprising of at lease one girl student) of Pre- final/Final year nominated by Chairperson, ICC	
University/Central level Procurement Committee	Prof. Sangita Banga, PVC-Chairperson	
	Dr. Ajit, Professor, ME	
	Dean of School & HoD of Indenting Department-Member	
	Registrar, MRU	
	Sh. S.K. Jha, CFO	
	Mr. Baldev Nagpal, GM-Purchase	

CHAPTER: 2

ACADEMICS AT MANAV RACHNA UNIVERSITY

Manav Rachna University (MRU) is a prominent State Private University, established under Haryana State Legislature Act No. 26 of 2014 and recognized by the University Grants Commission (UGC) under Section 2(f) of the UGC Act, 1956. Emerging from the legacy of Manav Rachna College of Engineering (MRCE), founded in 2004, MRU embodies the motto of "Creating Better Human Beings" who are not only globally competitive but also socially responsible.

With its visionary approach and distinctive educational methodology, MRU has earned the QS I-Gauge Overall Diamond rating, achieving a Platinum rating in Academic Development and Employability, and a Diamond rating in Teaching-Learning Process, Faculty Quality, Facilities, and Social Responsibility. Further demonstrating its commitment to fostering innovation, MRU's Institute Innovation Council, aligned with the Ministry of Innovation Cell (MIC) of MHRD-AICTE, has consistently received a 4-star rating for three consecutive years (2019, 2020, and 2021). This recognition highlights MRU's dedication to excellence and its pivotal role in shaping the future of education.

The university is also recognized by the All India Council for Technical Education (AICTE) and accredited by the National Board of Accreditation (NBA), which further underscores its commitment to maintaining high academic standards. These accolades, along with the NAAC 'A' Grade accreditation, highlight MRU's stature as a premier institution dedicated to nurturing talent and fostering innovation in various fields of study. The university has also received awards for its state-of-the-art infrastructure, industry-relevant curriculum, and exemplary student support services, further solidifying its status as a leading educational institution dedicated to shaping the future of its students.

SCHOOLS AT MANAV RACHNA UNIVERSITY

There are Schools at Manav Rachna University offering various relevant under-graduate and post-graduate programs across various domains. The details of which are following:

1) School of Engineering

- a. Department of Computer Science and Technology
 - i. B.Tech Computer Science & Engineering – a full-time 4 years degree program
 - ii. B.Tech Computer Science and Engineering (Hons.) with specialization in Artificial Intelligence & Machine Learning in association with Xebia – a full-time 4 years degree program
 - iii. B.Tech. Computer Science & Engineering with specialization in Cloud, DevOps & Automation, in collaboration with Xebia – a full-time 4 years degree program
 - iv. B.Tech in Computer Science & Engineering (specialization in Cyber Security & Threat Intelligence) in association with Quick Heal – a full-time 4 years degree program
 - v. B.Tech in Robotics & Artificial Intelligence Engineering – a full-time 4 years degree program
 - vi. M.Tech Computer Engineering – a full-time 2 years degree program
 - vii. Ph.D.
- b. Department of Electronics and Communication
 - i. B.Tech Electronics and communication Engineering – a full-time 4 years degree program
 - ii. B.Tech Electronics and Communication Engg. with specialization in VLSI and design verification – a full-time 4 years degree program
 - iii. M.Tech Electronics & Communication Engineering with specialization in Embedded System & VLSI – a full-time 2 years degree program
 - iv. Ph.D.
- c. Department of Mechanical Engineering
 - i. B.Tech in Mechanical Engineering (Hons.) with specialization in Smart Manufacturing and Automation – a full-time 4 years degree program
 - ii. M.Tech in Mechanical Engineering – a full-time 2 years degree program
 - iii. Ph.D.

2) School of Management and Commerce

- a. BBA in Finance and Accounts – a full-time 3 years degree program
- b. BBA in Entrepreneurship and Family Business – a full-time 3 years degree program
- c. BBA in Global Operations Management in collaboration with ISDC – a full-time 3 years degree program
- d. BBA in Global Health Care Management – a full-time 3 years degree program
- e. BBA (Business Analytics) – a full-time 3 years degree program
- f. MBA (Business Analytics) in collaboration with ISDC – a full-time 2 years degree program
- g. Ph.D.

3) School of Law

- a. LL.B. – a full-time 3 years degree program
- b. B.A.LL.B (Hons.) – a full-time 5 years degree program
- c. BBALL.B. (Hons.) – a full-time 5 years degree program
- d. LL.M. – a full-time 1-year degree program
- e. Ph.D.

4) School of Education and Humanities

- a. B.A.B.Ed. Integrated – a full-time 4 years degree program
- b. B.Sc.B.Ed. Integrated – a full-time 4 years degree program
- c. B.Ed. – a full-time 2 years degree program
- d. Ph.D.

5) School of Sciences

- a. M.Sc. in Physics – a full-time 2 years degree program
- b. M.Sc. in Chemistry – a full-time 2 years degree program
- c. M.Sc. in Mathematics – a full-time 2 years degree program
- d. Ph.D.

DOCTORAL PROGRAM

Manav Rachna University is a multidisciplinary & interdisciplinary research-driven University. University invites online Applications from eligible candidates for admission to Doctoral (Ph.D.) Program 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.

Substantial research is being undertaken in the department(s) under various Schools. In an endeavour to carry forward the research impetus, the University offers Ph.D. programmes. Broadly, the research activities are going on in the following main areas:

Computer Science & Technology

Artificial Intelligence, Pattern Recognition, Machine Learning, Data Mining, Big Data Analysis, Block chain Technology, Search Engine and Hidden Web, Education Technology, Green Computing, Soft Computing, Genetic Algorithms, Communication Systems & Networks, Network Security, Computational Models & Optimization.

Electronics & Communication

Antenna Design, Affordable healthcare devices, Human machine interaction, Digital filter design, Computer Vision and Image Processing, Digital Hardware Design for Biomedical Instruments, VLSI Design, Power System Analysis, Internet of Things, Embedded System Design, Wireless Communication, Energy Harvesting, Solar Cells.

Mechanical Engineering

Tribology-Thin Film Lubrication (EHL/micro-EHL), Failure Phenomena, Solar Energy and its Applications, Turbo-machines, Thermal Engineering, Fluid Mechanics, Manufacturing, Robotics, Design Electric Vehicle.

Management and Commerce

Finance, Management, Accounting Strategy, Marketing, Human Resources, Organizational Behaviour, Operations, Supply Chain Management, Banking, Insurance, Green Management, Entrepreneurship, Consulting.

Sciences

- **Physics:** Electronic Structure Calculations, Simulation of Laser-Plasma acceleration, Photonics: short radiation pulse Generation, Laboratory Astrophysics Simulation, Ionospheric Physics, Nanotechnology, Nanoscience, Multiferroics materials, Spintronics, Organic Solar Cells and Solid State Physics
- **Mathematics:** Algebra, Analysis, Ring Theory, Differential Geometry, Coding Theory, Wavelets, Approximation Theory, Fluid Mechanics, Mathematical Modelling, Operations Research.
- **Chemistry:** Green synthesis of biofuels, Heterocyclic Compounds, Batteries, Detoxification of water and adsorbents, Corrosion, Heavy Metal Toxicity, Polymer Chemistry, Polymer electrolytes, Superabsorbent Polymers/Hydrogels, Catalysis, Molecular Modelling

Education and Humanities

Assessment and Evaluation, Educational Psychology, E-learning, School management and administration, Curriculum development, Value Education,

Innovative Pedagogies, Research-Based Teacher Education, Peace & Sustainability, English, Political Science, History and Economics.

Law

International Arbitration, Corporate Law, Intellectual Property Rights Law, Human Rights, Constitutional Law, Public Law and Policy, Crime and Criminology, Trade Law, Business Law, Competition Law.

These areas are merely suggestive, and research can be conducted in other fields as well.

PEDAGOGIES AND BEST PRACTICES IN TEACHING LEARNING PROCESS

Manav Rachna University (MRU) places a strong emphasis on student-centric learning by incorporating experiential, participative, and problem-solving methodologies to enhance the overall learning experience. The curriculum is meticulously designed to align with industry needs, while teaching methods are tailored to complement the coursework, ensuring a comprehensive education. Agile classrooms equipped with visual boards and flipped classroom models foster collaborative learning and encourage students to engage in problem-solving activities.

To bridge the gap between academia and industry, MRU organizes regular webinars, seminars, and industry visits, providing students with opportunities to interact with experts and apply critical thinking, decision-making, and interpersonal skills through group projects and real-world case studies. Experiential and project-based learning further enhance students' abilities to tackle practical challenges, while dedicated tutorials and the Innovation and Incubation Centre offer abundant opportunities for experimentation and innovation.

Regular assessments and mentoring sessions focused on research and publication enable students to engage in credit-based research courses. The curriculum is made more engaging through the integration of collaborative, project-based, case-based, active learning, and role-playing pedagogies, ensuring classes remain interactive and focused on the subject matter.

MRU is committed to continuous improvement in teaching methods through regular faculty development programs conducted at both the departmental and institutional levels, equipping educators with the skills to employ innovative teaching practices. Each department also implements its own student-centered learning strategies, fostering critical and creative thinking to prepare students for real-world problem-solving.

1) School of Education and Humanities

• Learning by Doing

The new era of education marks the teaching- learning process as an active interaction. In this regard, students of BSc Bed (semester 3) have presented their creativity, working in groups on the topics of embryology. Through the activity they have showcased cooperative learning and experiential learning which helped them in better understanding and retention of the concepts.



• Session on SWOT Analysis through fun games

The objective of the orientation session on personal SWOT analysis was to provide students with a comprehensive understanding of this valuable tool and equip them with the necessary skills to apply it effectively in various scenarios. The session aimed to help students identify internal strengths and weaknesses of their personality while recognizing external opportunities and threats, enabling them to make informed decisions and develop robust strategies.

Agenda:

a) Introduction to SWOT Analysis:

- Definition and purpose of SWOT analysis
- Importance of SWOT analysis in decision-making

b) Exploring the Four Components of SWOT Analysis: a) Strengths:

- Definition and examples of strengths
- How to identify and leverage strengths for a competitive advantage

Weaknesses:

- a) Definition and examples of weaknesses
- b) Strategies for addressing and improving weaknesses

Opportunities:

- a) Definition and examples of opportunities
- b) Methods to recognize and capitalize on opportunities

Threats:

- a) Definition and examples of threats
- b) Approaches to mitigate and respond to threats

Practical Application of SWOT Analysis:

- a) Case studies demonstrating SWOT analysis in different scenarios
- b) Group exercises to analyze real-world situations using SWOT analysis

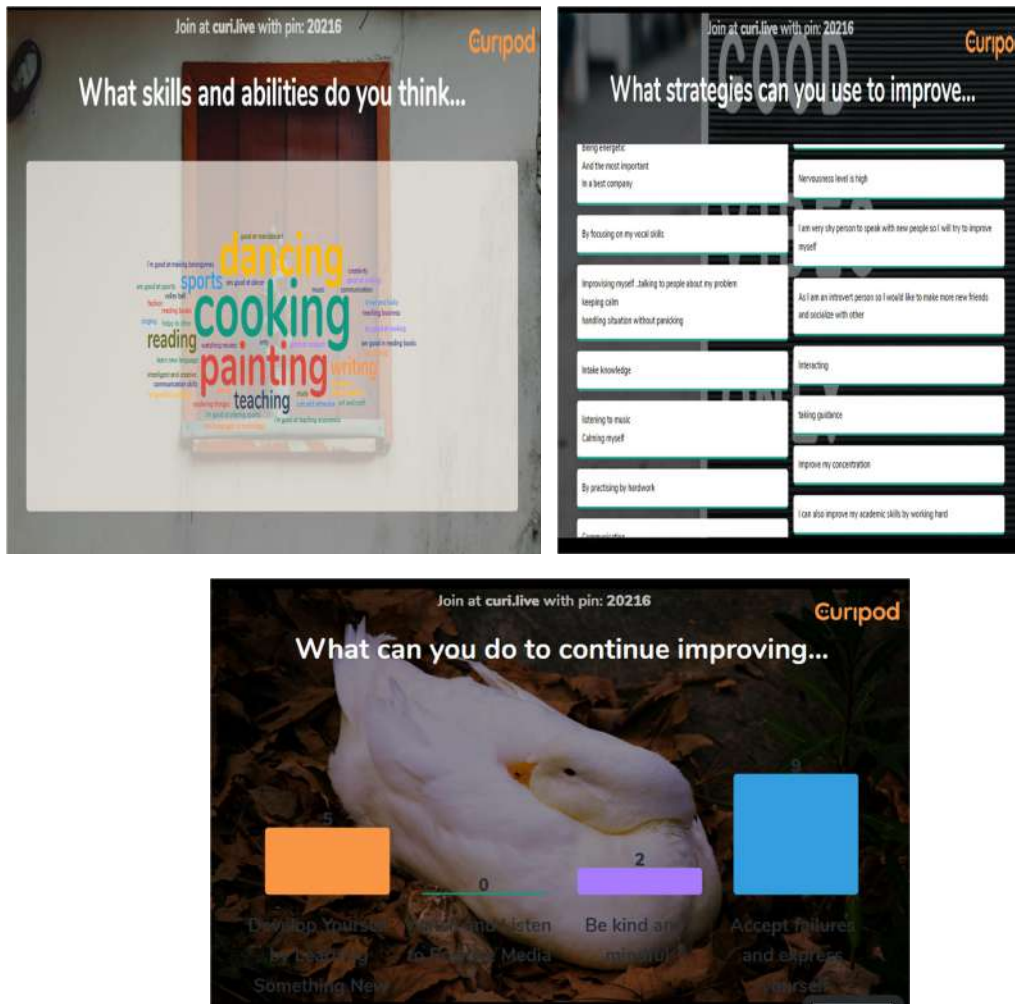
Tips for Effective SWOT Analysis:

- a) Factors to consider when conducting a SWOT analysis
- b) Dos and don'ts of SWOT analysis

Conclusion:

- a) Recap of key points covered during the session
- b) Encouragement for students to implement SWOT analysis in their academic and professional pursuits

After carefully explaining the various elements of self SWOT analysis, an interactive virtual game was initiated in classroom using the application curipod.com.



Session Highlights: The orientation session on SWOT analysis witnessed active participation from the students. They enthusiastically engaged in discussions and case studies, demonstrating their grasp of the SWOT analysis concept. Some key highlights of the session include:

- Interactive Learning:** The session utilized a mix of interactive presentations, group activities, and real-world examples, making the content engaging and easy to comprehend.
- Group Collaboration:** Students worked together in groups during the practical exercises, fostering teamwork and enhancing their problem-solving skills.

- c) **Student Enthusiasm:** The students exhibited a keen interest in learning how to identify and utilize SWOT elements to make effective decisions and improve overall performance.
- d) **Practical Relevance:** The session's emphasis on real-world applications of SWOT analysis resonated well with the students, as they could see its relevance in their academic and professional lives.

Feedback and Q&A: A feedback session was conducted at the end, providing students with the opportunity to express their thoughts and seek clarifications on any doubts they had.

Conclusion: The orientation session on SWOT analysis proved to be a valuable learning experience for all participants. By the end of the session, students had acquired a solid understanding of SWOT analysis and its significance in strategic decision-making. We hope that they will continue to apply this knowledge in their studies, future projects, and careers, enabling them to achieve greater success and competitive advantage.



2) School of Law

- **Problem-based Learning – Mock Youth Parliament**

A mock youth parliament activity serves as a dynamic platform for young individuals to immerse themselves in the essence of democratic governance. Through simulated parliamentary sessions, participants engage in lively debates, refine their public speaking skills, and learn the intricacies of policy formation. Beyond the surface, it fosters a deeper understanding of civic responsibility, encouraging active participation in societal issues.

To conduct a mock youth parliament activity in the classroom, Students were allocated with the topic of running bill in the parliament. Roles were assigned to the students such as Prime Minister, Opposition Leader, and Members of Parliament, allowing students to choose based on their interests. One week time was given for research and preparation, and establish a debate format with set time limits. During the session, students were encouraged respectful dialogue and constructive debate, culminating in decision-making through voting or consensus-building. Later it was concluded with a reflection session to discuss insights gained and lessons learned, fostering an appreciation for democracy and civic engagement among students.

- **Flipped Classroom**

The flipped classroom model is an educational approach where traditional classroom activities, such as lectures and instruction, are moved outside of the classroom, typically through online resources like videos, readings, or interactive tutorials. Students engage with the material independently at their own pace before coming to class. Then, class time is used for active learning activities, such as discussions, problem-solving, and hands-on exercises, where students can apply what they have learned and receive personalized guidance from the teacher. This model promotes a more student-centered learning experience, encourages critical thinking and collaboration, and allows teachers to provide targeted support to individual students.

Students were given a topic which they were required to teach in the class to enhance their research skills and to boost their confidence levels regarding new topics.



- **Interviews**

It is a method for students to understand and identify the application of the Supreme Court Rules and Bar Council of India's duties & code of ethics. Students were instructed to make groups of 2-4 people and interview advocates practising in Delhi-NCR. Through this, they witnessed the challenges that advocates face when clients approach them, requesting to take up their case.



3) School of Management and Commerce

- **Participative Learning- Expert Lecture at NSE**

The BBA –Finance and Accounts students of the School of Management and Commerce undertook an industry visit to National Stock Exchange of India Ltd., Janpath, Connaught Place, New Delhi. This visit empowered the students to understand the risk and return associated with investments, benefits of diversification, tax planning, being aware of investor's rights and cautious of fraud, understanding difference between insurance and investment, gaining insights into how financial markets work, including key indicators, market trends. By attending the investor awareness program on financial literacy, students can equip themselves with the knowledge and

tools to make informed financial decisions and achieve their financial goals.

The speaker of the program was Mohd Izhar Ul Islam, Deputy Manager, National Stock Exchange of India Ltd. The students were accompanied by Dr. Shweta Goel, Associate Prof. SoMC and Rashmi Banerji.



• Problem Solving Method- Real World Problems

The BBA students of the School of Management and Commerce (SOMC) at Manav Rachna University undertook an industrial visit to Victoria Auto (P) Ltd., a prominent player in the automotive industry. The students were accompanied by **Dr. Rashmi Banerji**, Asst Prof, SOMC and **Ms. Vandana Zutshi Bhat**, Asst Prof, SOMC. This visit aimed to bridge the gap between theoretical knowledge and practical application, providing students with firsthand experience of industrial operations and management practices. The students expressed gratitude to **Dr. Parul Jhajharia, Dean, SOMC** for giving the opportunity to students.



4) School of Sciences

Department of Physics

NEP INITIATIVES

Manav Rachna University has been dedicated at expanding academic horizons and raising the standards of higher education in India. In line with this tradition, the university has implemented the National Education Policy 2020 (NEP 2020), a transformative policy aimed at redefining the country's education system from preschool to the doctoral level.

By breaking down the conventional boundaries between arts and sciences, curricular and extracurricular, and academic and vocational education, Manav Rachna University ensures a comprehensive and holistic approach to learning. This structure prepares students to thrive in an interconnected and rapidly evolving world, staying true to MRU's commitment to fostering well-rounded, globally competitive, and socially responsible graduates.

Under the National Education Policy 2020 (NEP 2020), Manav Rachna University has undertaken several initiatives to enhance the quality of education and foster a dynamic learning environment. A key focus has been on effective teaching strategies that aim to bring academic excellence into the classroom. This is complemented by digital initiatives such as NPTEL and MOOCs, which provide students with access to high-quality online learning resources.

The university has also introduced innovative pedagogies, including blended learning, collaborative learning, agile classrooms, and project-based learning, to make education more engaging and effective. Traditional classroom teaching is seamlessly combined with technology-based learning tools like online videos, VR simulations, and interactive games, emphasizing the use of game-based mechanics to enhance student engagement.

Furthermore, MRU has strengthened industry collaboration by hosting expert talks from companies like Truechip, Xebia, and Daikin, along with organizing industrial visits and establishing Centres of Excellence. Faculty development is also prioritized through orientation programs and workshops on project-based learning (PBL) methods. To support holistic student growth, initiatives such as designing effective assessments and exposing students to research paper writing have been implemented, ensuring they are well-prepared for academic and professional success.

Manav Rachna University has been at the forefront of educational innovation, proactively implementing the National Education Policy (NEP) 2020 from its very inception. The university's commitment to aligning with NEP 2020 reflects its

dedication to transforming the educational landscape by promoting inclusivity, accessibility, and holistic development. Recognizing the crucial role of education in nation-building, Manav Rachna University has taken several strategic steps to enhance the Gross Enrolment Ratio, ensuring that higher education is accessible to a broader and more diverse student population. These efforts are aimed at fostering an environment where every student, regardless of their background, can thrive and achieve their full potential.

Following measures have been taken by the university:

- **CBCS - Flexible curriculum structure: Compulsory and Elective Basket**

The Choice Based Credit System (CBCS) allows students to customize their learning paths with a mix of mandatory courses and electives, enhancing flexibility in their academic experience.

- **Flexibility for learners to register for lower or higher number of credits in a semester**

Students can adjust their course load each semester, choosing to take more or fewer credits based on their personal learning pace and other commitments.

- **Earning credits from other domains**

Students have the opportunity to explore subjects outside their main field of study, earning a significant portion of their credits from diverse academic disciplines.

- **Credit for the courses completed from other Universities/ NPTEL / SWAYAM etc.**

The university recognizes credits earned from external courses, including those from other universities and online platforms like NPTEL and SWAYAM, integrating varied learning experiences into the degree.

- **Mandatory courses on Research, IPR, and Entrepreneurship**

To equip students with crucial skills, MRU mandates courses in Research, Intellectual Property Rights (IPR), and Entrepreneurship as part of the curriculum.

- **Provisions to offer courses to the students from other Universities in the domain of Media, Journalism, Culinary, etc.**

MRU opens its specialized courses in fields like Media, Journalism, and Culinary Arts to students from other universities, promoting collaborative learning.

- **Multiple Entry Multiple Exit to be introduced from 2024**

The university will implement a flexible academic structure allowing students to enter or exit their programs at various stages, enhancing adaptability.

- **ABC Account at University level**

MRU has established an Academic Bank of Credits (ABC) system, creating ABC IDs for students to credit courses taken from other recognized institutions.

- **Procedures for admitting students at lateral level through credit mapping**

The university has set up procedures to admit students at advanced levels by mapping previously earned credits, supporting smooth lateral entries into programs.

- **Courses emphasising promotion of Indian Knowledge System**

The study of the Indian Knowledge System (IKS), which embodies the wisdom and worldview of India's 6,000 years old rich civilizational heritage, holds immense significance. Hence, MRU has introduced courses promoting the Indian Knowledge System. To cite some, Constitutional Law – I, Family Law – I and Jurisprudence in School of Law and Essence of Indian Traditional Knowledge in School of Education and Humanities.

- **Inclusive Education**

The NEP 2020 emphasizes inclusivity and equity in education in India aiming at universal access of education, equity and inclusion and also inclusive education for all learners. In this direction too, MRU has taken constructive steps by installing KIBO device in library which is a language conversion tool that can convert text in English language to speech in 18 regional languages to support learning. There is also provision of bilingual examination papers ensuring language accessibility and ease of understanding. These initiatives demonstrate Manav Rachna University's commitment to inclusivity and accessibility, ensuring that students from diverse backgrounds have the resources and support they need to succeed academically and increasing the Gross Enrolment Ratio of the country.

FACULTY MEMBERS OF THE UNIVERSITY

2.4 Faculty Members of the University

S. No.	Name	Designation	Department
1	Dr. Sangita Banga	PVC	CHEMISTRY
2	Dr. Sachin Lakra	PROFESSOR	CST
3	Dr. Neelu Chaudhary	ASSOCIATE PROFESSOR	CST
4	Deepanshi Gupta	ASSISTANT PROFESSOR	CST

5	Meenakshi Gupta	ASSOCIATE PROFESSOR	ECE
6	Dr. Deepa Arora	PROFESSOR	MATHS
7	Pragati Chauhan	PROFESSOR	MBA
8	Dr. Jyoti Pruthi	PROFESSOR	CST
9	Dr. Prinima	PROFESSOR	CST
10	Dr. Ajit	PROFESSOR	ME
11	Seema Aggarwal	ASSISTANT PROFESSOR	MATHS
12	Agha Imran Hussain	ASSISTANT PROFESSOR	CST
13	Dinesh Tripathi	ASSOCIATE. PROFESSOR	MATHS
14	Ram Chatterjee	ASSISTANT PROFESSOR	CST
15	Lokesh Bhardwaj	ASSISTANT PROFESSOR	ECE
16	Dr. Pooja Kapoor	ASSOCIATE PROFESSOR	MGMT
17	Dr. Akhilesh Kumar Dwivedi	ASSOCIATE PROFESSOR	HUMANITIES
18	Manoj Kumar	ASSOCIATE PROFESSOR	CST
19	Narender	ASSISTANT PROFESSOR	CST
20	Savita Saini	ASSISTANT PROFESSOR	MATHS
21	Urmila Pilia	ASSOCIATE PROFESSOR	CST
22	K.Deepa	ASSOCIATE PROFESSOR	ECE
23	Meena Chaudhary	ASSISTANT PROFESSOR	CST
24	Gunjan Chandwani	ASSISTANT PROFESSOR	CST
25	Joginder Singh	PROFESSOR	ME
26	Nitika	ASSOCIATE PROFESSOR	ECE
27	Dr. Sudhish Kumar Shukla	PROFESSOR	CHEMISTRY
28	Bhanu Pratap Chaudhary	ASSISTANT PROFESSOR	ECE
29	Jai Prakash Sharma	ASSOCIATE PROFESSOR	ME

30	Ramapati Maurya	ASSISTANT PROFESSOR	MATHS
31	Piyush Mahendru	ASSISTANT PROFESSOR	ME
32	Mamta Arora	ASSISTANT PROFESSOR	CST
33	Nazish Ahmad Shamsi	ASSISTANT PROFESSOR	ME
34	Dr. Aparna Vyas	ASSOCIATE PROFESSOR	MATHS
35	Arpit Sand	ASSOCIATE PROFESSOR	CHEMISTRY
36	Dr. Shiv Kumar Dixit	ASSISTANT PROFESSOR	EDUCATION
37	Prashant Bhardwaj	ASSOCIATE PROFESSOR	ME
38	Advin Masih	ASSISTANT PROFESSOR	MATHS
39	Anup Singh Kushwaha	ASSISTANT PROFESSOR	CST
40	Ruchi Gupta	ASSOCIATE PROFESSOR	MATHS
41	Mandeep Bhadana	ASSISTANT PROFESSOR	ME
42	Pradeep Kumar Mouria	ASSISTANT PROFESSOR	ME
43	Chhavi Kulshrestha	ASSOCIATE PROFESSOR	HUMANITIES
44	Ankita Gaur	ASSISTANT PROFESSOR	MATHS
45	Ridhi Khanna	ASSISTANT PROFESSOR	EDUCATION
46	Sanjay Kumar	ASSISTANT PROFESSOR	CST
48	Dr. Charu Pathak	PROFESSOR	PHYSICS
49	Dr. Deepti Maikhuri	ASSISTANT PROFESSOR	PHYSICS
50	Dr. Priti Gupta	ASSISTANT PROFESSOR	CHEMISTRY
51	Babita Sharma	ASSOCIATE PROFESSOR & DEAN	EDUCATION
52	Dr. Jai Prakash	ASSOCIATE PROFESSOR	PHYSICS
53	Meena Kapahi	PROFESSOR	CHEMISTRY
54	Dr. Dinesh Kumar Sharma	PROFESSOR	PHYSICS
55	Gianender	ASSISTANT PROFESSOR	ME

56	Vijay Kumar Gill	ASSISTANT PROFESSOR	ECE
57	Niharika Thakur	Associate Professor	ECE
58	Dr. Tarundeep Kaur	Associate Professor	LAW
59	Aditi Choudhary	ASSISTANT PROFESSOR	LAW
60	Manpreet Kaur	PROFESSOR	CST
61	Dr. Ekta Rawat	ASSISTANT PROFESSOR	CHEMISTRY
62	Dr. Roopa Rani	ASSISTANT PROFESSOR	CHEMISTRY
63	Dr. Anshuman Sahai	ASSISTANT PROFESSOR	PHYSICS
64	Dr. Rashee Singh	PROFESSOR	EDUCATION
65	Dr. Parneeta Dhaliwal	PROFESSOR	CST
66	Shilpa Sharma	ASSISTANT PROFESSOR	CHEMISTRY
67	Dr. Ananna Bardhan	ASSISTANT PROFESSOR	PHYSICS
68	Savita Sharma	ASSOCIATE PROFESSOR	EDUCATION
69	Saratendu Kumar Bose	ASSOCIATE PROFESSOR	LAW
70	Shruti Vashist	PROFESSOR	ECE
71	Sandeep Kumar	ASSOCIATE PROFESSOR	PHYSICS
72	Rashi Banerji	ASSISTANT PROFESSOR	MGMT
73	Srishti Bathla	ASSISTANT PROFESSOR	MGMT
74	Dr. Ritu Sharma	ASSOCIATE PROFESSOR	EDUCATION
75	Dr. Animesh Singh	ASSOCIATE PROFESSOR	MGMT
76	Anu Priya Sharma	ASSISTANT PROFESSOR	CST
77	Amit Kumar	ASSISTANT PROFESSOR	LAW
78	Dr. Geeta R. Thakur	PROFESSOR	EDUCATION
79	Dr. Sanjay Singh	ASSOCIATE PROFESSOR	CST
80	Dr. Harsha Devnani	ASSISTANT PROFESSOR	CHEMISTRY

81	Dr. Jayamani	ASSISTANT PROFESSOR	CHEMISTRY
82	Sharv Datt Anand	ASSISTANT PROFESSOR	EDUCATION
83	Chandra Prakash Singh	ASSISTANT PROFESSOR	EDUCATION
84	Vandna Bhat	ASSISTANT PROFESSOR	MBA
85	Dr. Kamlesh Kumar	ASSISTANT PROFESSOR	MATHS
86	Akansha Ghose	ASSISTANT PROFESSOR	LAW
87	R.K Sanayaima Singh	ASSISTANT PROFESSOR	EDUCATION
88	Dr. Bhawna Singla	ASSISTANT PROFESSOR	MATHS
89	Dr. Pooja Parmar	ASSISTANT PROFESSOR	EDUCATION
90	Sampriti Phukan	ASSISTANT PROFESSOR	LAW
91	Simran Singh	ASSISTANT PROFESSOR	LAW
92	Chandni Magoo	ASSISTANT PROFESSOR	CST
93	Nidhi	ASSISTANT PROFESSOR	LAW
94	Dr. Shaharyar Asaf Khan	ASSOCIATE PROFESSOR	LAW
95	Bharatendu Agarwal	ASSISTANT PROFESSOR	LAW
96	Dr. Yogita Sharma	PROFESSOR	MGMT
97	Dr. Shalu	ASSISTANT PROFESSOR	CST
98	Asmita Patel	ASSISTANT PROFESSOR	LAW
99	Dr. Shweta Goel	ASSOCIATE PROFESSOR	MGMT
100	Nibedita Hazarika	ASSISTANT PROFESSOR	EDUCATION
101	Kriti Dagar	ASSISTANT PROFESSOR	EDUCATION
102	Dr. Kaveri Sharma	ASSOCIATE PROFESSOR	LAW
103	Chaitali Wadhwa	ASSISTANT PROFESSOR	LAW
104	Jyoti Nanwal	ASSISTANT PROFESSOR	CST
105	Khushboo Gulati	ASSISTANT PROFESSOR	MBA

106	Minakshi Sharma	ASSISTANT PROFESSOR	MBA
107	Ranjna Jain	ASSOCIATE PROFESSOR	CST
108	Deepti Thakral	ASSOCIATE PROFESSOR	CST
109	Mrinal Pandey	PROFESSOR	CST
110	Moditma	ASSISTANT PROFESSOR	PHYSICS
111	Arvinder Kaur	ASSISTANT PROFESSOR	EDUCATION
112	Piyush Charan	ASSOCIATE PROFESSOR	ECE
113	Smriti Mishra	ASSISTANT PROFESSOR	ME
114	Eram Aziz	ASSISTANT PROFESSOR	EDUCATION
115	Yamini Atreya	ASSISTANT PROFESSOR	LAW
116	Ankur Kumar Aggarwal	ASSISTANT PROFESSOR	CST
117	Neeraj Chopra	ASSISTANT PROFESSOR	MGMT
118	Dr. Kiran Gupta	ASSOCIATE PROFESSOR	EDUCATION
119	Maharaj Krishen Koul	ASSOCIATE PROFESSOR	MGMT
120	Dr. Parul Jhajharia	PROFESSOR & DEAN	MGMT
121	Dr. Kanu Priya	ASSOCIATE PROFESSOR	LAW
122	Meenal Rawat	ASSISTANT PROFESSOR	EDUCATION
123	Anjali	ASSISTANT PROFESSOR	LAW
124	Dr. Manisha Narula	ASSOCIATE PROFESSOR	LAW
125	Dr. Abhishek Saxena	ASSOCIATE PROFESSOR	CST
126	Puja Das	ASSISTANT PROFESSOR	LAW
127	Tamanna Sachdeva	ASSISTANT PROFESSOR	CST
128	Esha Khanna	ASSISTANT PROFESSOR	CST
129	Surabhi Sharma	ASSISTANT PROFESSOR	LAW
130	Sunil Kumar Singh Kadyan	ASSOCIATE PROFESSOR	MGMT

131	Dr. Goldie Gabrani	PROFESSOR & DEAN ENGINEERING	CST
132	Arushi Malik	ASSISTANT PROFESSOR	LAW
133	Mira Mishra	ASSISTANT PROFESSOR	EDUCATION
134	Akanksha Choudhary	ASSISTANT PROFESSOR	MGMT
135	Vinayak Vandan Pathak	ASSISTANT PROFESSOR	CHEMISTRY
136	Dr. Zeba Naaz	ASSISTANT PROFESSOR	M.E
137	Tamanna	ASSISTANT PROFESSOR	CST
138	Varun Yadav	ASSISTANT PROFESSOR	ECE
139	Shagun Chahal	ASSISTANT PROFESSOR	MGMT
140	Dr. Gurpreet Kaur	ASSOCIATE PROFESSOR	MGMT
141	Shiv Kumar Singh Pundhir	ASSISTANT PROFESSOR	MGMT
142	Aman Jatain	PROFESSOR	CST
143	Monika Garg	ASSOCIATE PROFESSOR	CST
144	Ankita Gupta	ASSOCIATE PROFESSOR	CST
145	Dr. Ankita Sharma	ASSISTANT PROFESSOR	EDUCATION
146	Dr. Sunil Kumar Premkishor Roy	PROFESSOR	MGMT

2.5 Students

2.5.1 Enrolment of Students

An institution's growth can be gauged by the number of students enrolled in each of its programmes. More students are enrolling every year, demonstrating how popular university curricula are:

Program/Branch Name	Total No. of students
School of Engineering	1201
Sciences	79
Management	436
Law	469
Education	235
Total Students (UG)	2328
Total Students (PG)	92
Total Students PhD.	275

2.6 Scholarship Policy

In the year 2023-24 from July to June, a substantial sum of more than three and a half crores was awarded as a scholarship. The scholarship policy of the University encourages a good number of students every year and kindles the spirit of consistent performance. Elaborative policy details are as follows:

2.6.1 Merit Scholarship: Schemes 'Utkarsh' and 'Uttam' for the candidates based on MRNAT-2022 Score for UG & PG programs: -

MRNAT 2022 Score	'Utkarsh' *	'Uttam' **
90.00% & above	100% Tuition Fee Waiver	100% Tuition Fee Waiver
80.00% & above but below 90.00%	50% Tuition Fee Waiver	25% Tuition Fee Waiver
70.00% & above but below 80.00%	25% Tuition Fee Waiver	10% Tuition Fee Waiver

* Scheme 'Utkarsh' is for candidates taking Admission within a period from 31st May 2022 to 15th July 2022)

** Scheme 'Uttam' is for candidates taking Admission within a period from 16th July to 16th August 2022)

Free ship/Scholarships to students based on marks/CGPA in the qualifying examination as per the following criteria:

UG level programmes (Except B.Ed. & B.Ed. in Special Education)

Marks / CGPA in Qualifying Examination	Tuition Fee Waiver
95% and above	100%
90% to 94.99%	50%
85% to 89.99%	25%
80% to 84.99%	10%

PG level Programme (other than LLM Programme)

Marks / CGPA in Qualifying Examination	Tuition Fee Waiver
85% and above	100%
80% to 84.99%	50%
75% to 79.99%	25%
70% to 74.99%	10%

LLM Programme

Marks/Score in the Qualifying Examination	Tuition Fee Waiver
75% & above	100%
70 % to 74.99%	50%
65% to 69.99%	25%
60% to 64.99%	10%

Free ship /Scholarships to students seeking admission for B.Tech-Engineering Programmes on the basis of their JEE Mains -2022 Overall All India Rank as per the following criteria

JEE Mains-2022 Overall All India Rank	Tuition Fee Waiver
Up to 50000	100%
50001 – 100000	50%
100001-150000	25%

2.6.2 Merit cum Means Scholarship

- Manav Rachna offers merit-cum-means scholarships to Haryana candidates for all undergraduate and postgraduate programs. This scheme is available to students whose parents have an annual income up to Rs. 2.80 lakh from all sources. The scholarships provide tuition fee waivers as follows:
- 100% waiver for one-fifth of the top 25% of students.
- 50% waiver for two-fifths of the top 25% of students.
- 25% waiver for the remaining two-fifths of the top 25% of students.
- Students must pay other applicable fees for their programs.

2.6.3 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' for students bagging 1st, 2nd and 3rd positions in the Odd & Even semester exams (Based on the amalgamated SGPA / CGPA) every year for each programme being run at MRU, as under:

a) First position	25% of Tuition Fee or Rs.25,000/- whichever is less
b) Second Position	15% of Tuition Fee or Rs.15,000/- whichever is less
c) Third Position	10% of Tuition Fee or Rs.10,000/- whichever is less

The following are the guidelines for granting these Merit Scholarships:

Any programme must have strength of 90 or more in the semester exam to qualify for first, second and third position scholarship, otherwise only a solitary topper shall be given a solitary first position scholarship. If the strength of a course is 10 or less no scholarship will be awarded for that course.

A student shall be eligible to benefit from tuition fee waiver only from one source only.

2.6.4 Special Scholarship Awarded

a. **Scholarship to Ph.D. Students:** Faculty members working with MREI for three or more years' duration are entitled for a scholarship while they enroll for their career enhancement and join the doctoral program. It is done to promote a culture of research in the organization and honour the association of employees with MREI.

a. **Scholarship to Alumni of MREI:** Student who is an Alumnus of any of the Manav Rachna Educational Institutions (Schools/ HEI), is eligible for 10% tuition fee waiver (limiting up to maximum of 10000/- per year) during admission to the programs offered by MRU.

b. **Free ship /Scholarships to the Siblings of Manav Rachna Student in any of the HEIs of Manav Rachna:** 10% Tuition fee Waiver (limiting up to maximum of Rs. 5000/ 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.

a. **Scholarship to the wards of MREI Employee:** 25% Tuition fee waiver (limiting up to maximum of 25,000/- per year) to First Child Only. However, if the first Child is already getting a scholarship on the basis of merit then this benefit would be passed to the second child, if applicable.

a. **Free ship /Scholarships to Girl candidates:** 10% Tuition fee Waiver (limiting up to maximum of Rs. 5000/ per semester) shall be available to all girl candidates in all the UG & PG Programmes provided candidate has scored 60% aggregate marks in the qualifying exam

2.6.5 Scholarship Data

2023-24		
Type of Scholarship	No. of Student	Amount
Tuition Fee Waiver	513	18322150.00
Merit Cum Means	36	1848875.00
Manav Rachna Student Staff Alumni Welfare Fund & Others		
MREI Student	47	252800.00
Concession to PhD Students on The Basis of Length of Service	15	225000.00

BATCH	MERIT SCHOLARSHIP		MERIT CUM MEANS SCHOLARSHIP		BRANCH TOPPERS		MGT APPROVALS		PHD SCHOLARS		MREI STUDENT		TOTAL	
	NO. OF STUDENTS	AMOUNT	NO. OF STUDENTS	AMOUNT	NO. OF STUDENTS	AMOUNT	NO. OF STUDENTS	AMOUNT	NO. OF STUDENTS	AMOUNT	NO. OF STUDENTS	AMOUNT	NO. OF STUDENTS	AMOUNT
2014							1	52400					1	52400
2015	11	747500	8	287500	7	115000	4	238250	15	210000			45	1598250

2016	61	2425500	9	269500	8	157000	7	241500	9	190000			94	3283500
2017	91	3351875	15	390375	10	154625	16	512150	1	15000	1	5000	134	4429025
2018	84	3573875	26	1120000			47	318492	9	80000	21	105000	187	5197367
2019	284	14089250	60	3510750	0	0	112	3159267	32	590000	9	45000	497	21394267
2021	431	23023735	37	2240750	16	288150	159	8137188	22	355000`	28	116000	671	33805823
2022	513	18322150	36	1848875	22	285025	254	14204952	15	225000	47	252800	887	3513880
2023	417	24252625	35	3076750	16	383500	232	20419075	15	1060000	22	216625	737	49408575
Total	1892	89786510	226	12744500	79	1383300	832	47283274	118	2370000	128	740425	3252	122630687

CHAPTER: 3

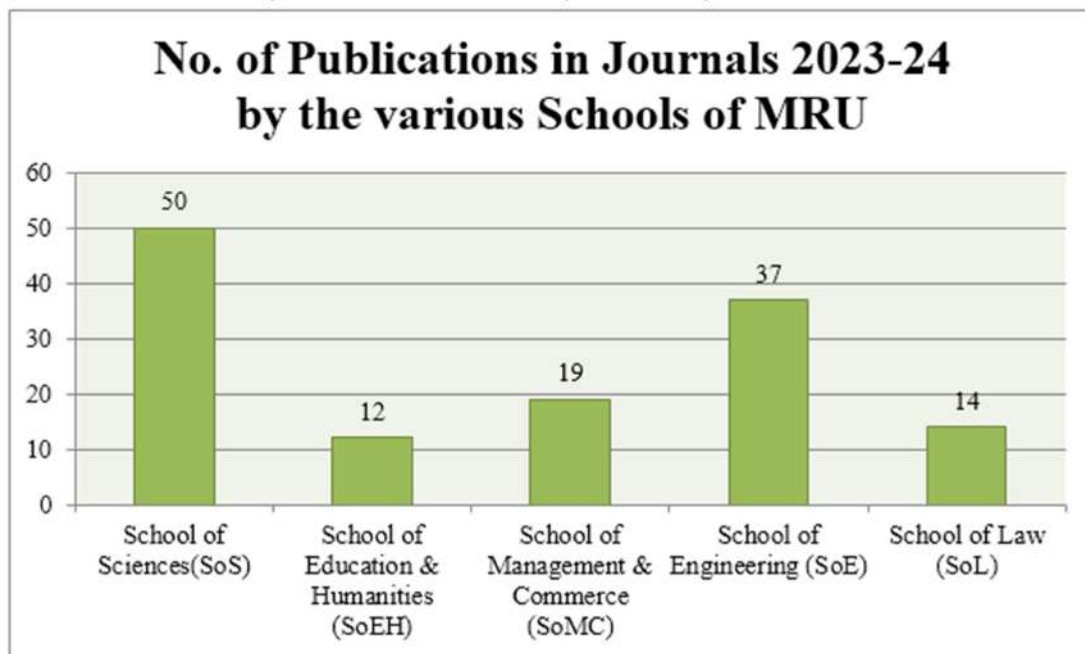
RESEARCH DEVELOPMENT AND INNOVATIONS

3.1 Trailblazing Discoveries: Research Publications and Projects

Research is the cornerstone of academic excellence at Manav Rachna University (MRU), and the academic year 2023-24 has been marked by significant contributions across various domains. Our faculty members have been instrumental in publishing pioneering research in reputed journals, presenting their work at national and international conferences, authoring books, and securing patents. These achievements reflect MRU's commitment to pushing the boundaries of knowledge and fostering innovation.

3.1.1 Research Publications in Journals

During the academic year 2023-24, MRU's faculty made substantial contributions to the body of knowledge through their research publications. The table below provides a summary of the publications in Journals across

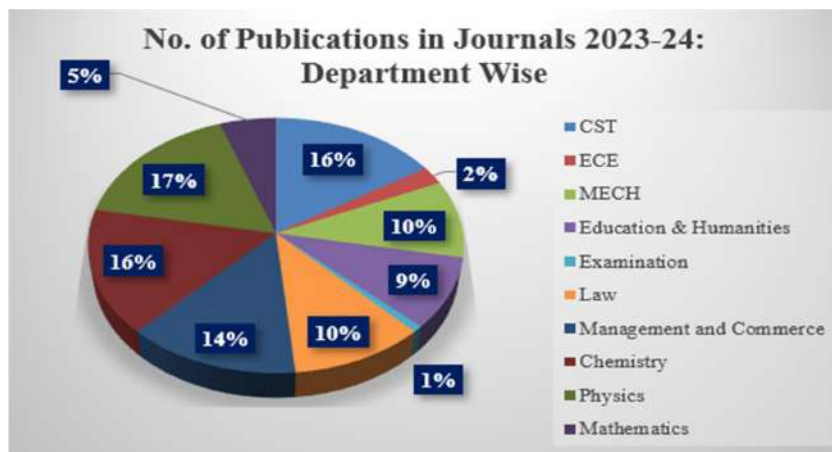


School Wise	No. of Publications in Journals
School of Sciences (SoS)	50
School of Education & Humanities (SoEH)	12

School of Management & Commerce (SoMC)	19
School of Engineering (SoE)	37
School of Law (SoL)	14

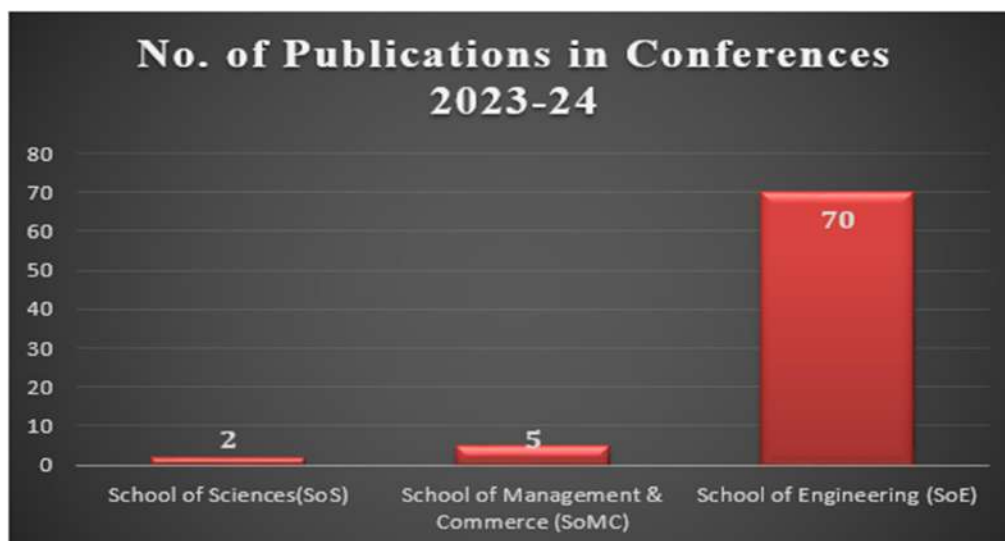
These publications span a range of topics, from innovative engineering solutions to advancements in education and management. Faculty members employed rigorous methodologies to address pressing societal challenges, and their findings have been disseminated through reputable journals.

Department Wise	No. of Publications in Journals
CST	21
ECE	3
MECH	13
Education & Humanities	12
Examination	01
Law	14
Management and Commerce	18
Chemistry	21
Physics	22
Mathematics	7



3.1.2 Research Publications in Conferences

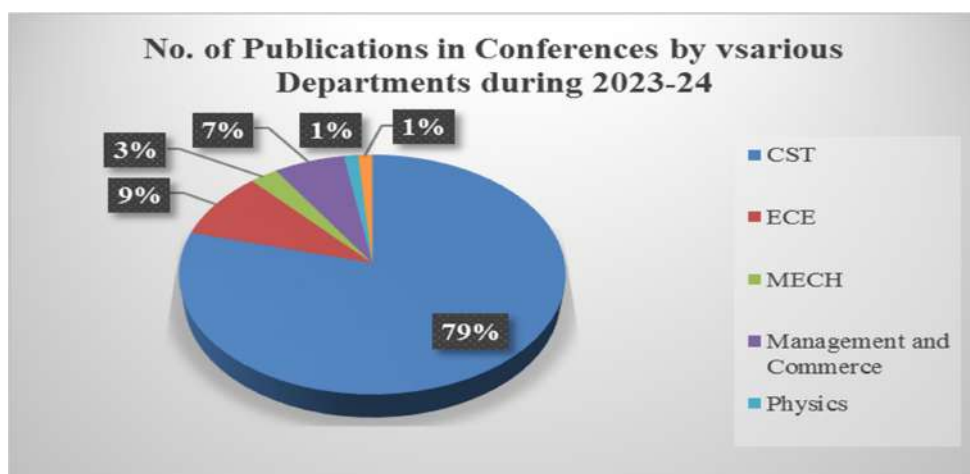
MRU's faculty also actively participated in conferences, sharing their findings with the broader academic and professional communities. The following table outlines the number of conference papers presented:



School Wise	No. of Publications in Conferences
School of Sciences (SoS)	2
School of Management & Commerce (SoMC)	5
School of Engineering (SoE)	70

These presentations facilitated the exchange of ideas, fostering collaborations and discussions that are critical for advancing research and innovation.

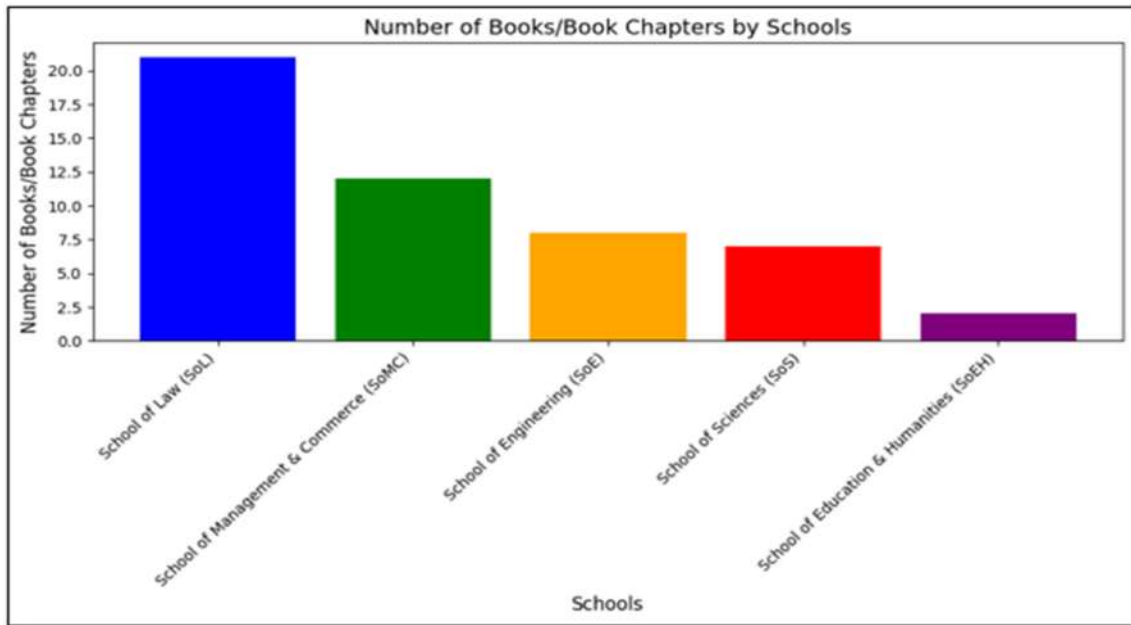
Department Wise	No. of Publications in Conferences
CST	61
ECE	7
MECH	2
Management and Commerce	5
Physics	1
Mathematics	1



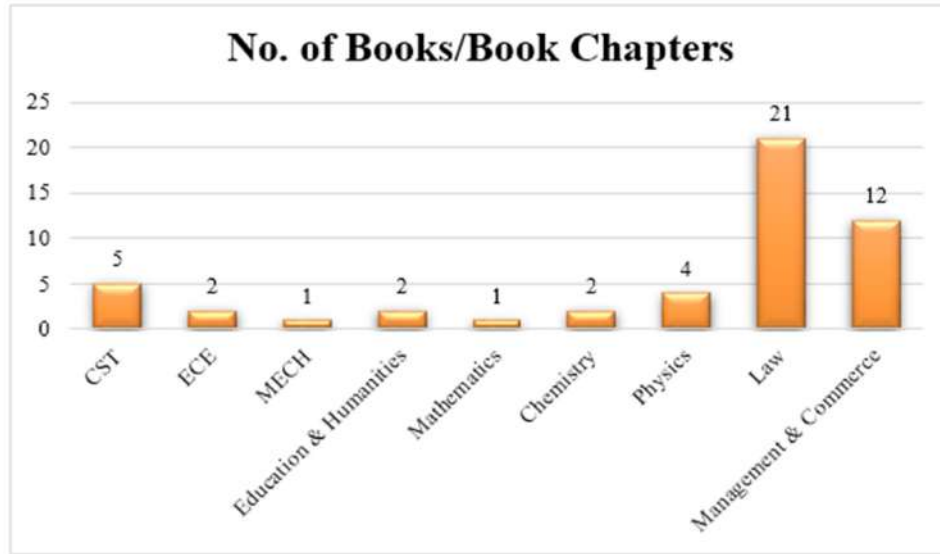
3.1.3 Books and Book Chapters

In addition to journal and conference publications, MRU's faculty contributed to academic literature by authoring books and book chapters. The table below highlights these contributions:

School	No. of Books / Book Chapters
School of Law (SoL)	21
School of Management & Commerce (SoMC)	12
School of Engineering (SoE)	8
School of Sciences (SoS)	7
School of Education & Humanities (SoEH)	2



Department	No. of Books	No. of Book Chapters
CST	2	3
ECE	1	1
MECH	-	1
Education & Humanities	1	1
Mathematics	1	-
Chemistry	1	1
Physics	4	-
Law	7	14
Management & Commerce	1	11

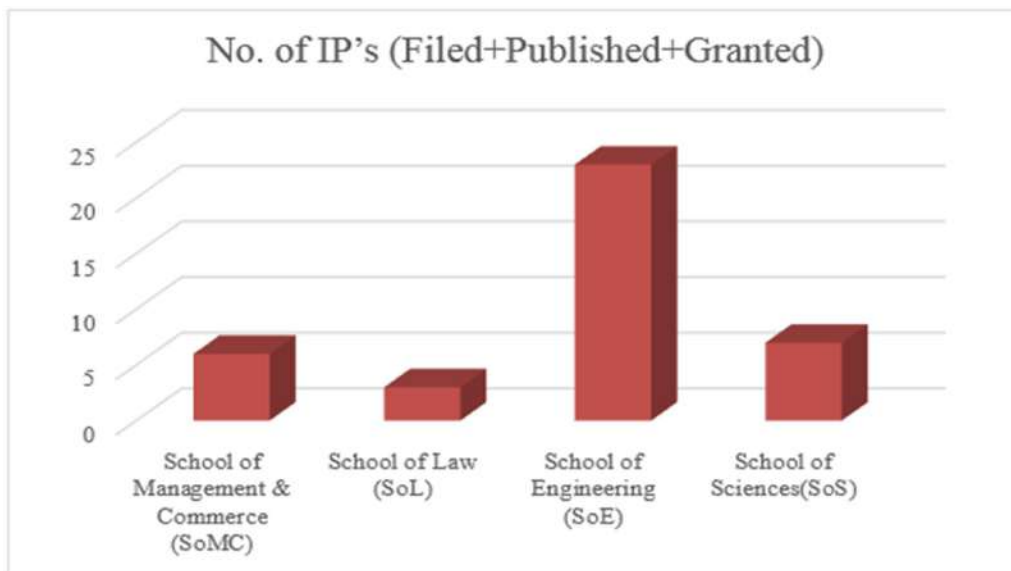


These scholarly works serve as valuable resources for students, researchers, and professionals, providing in-depth insights into various fields.

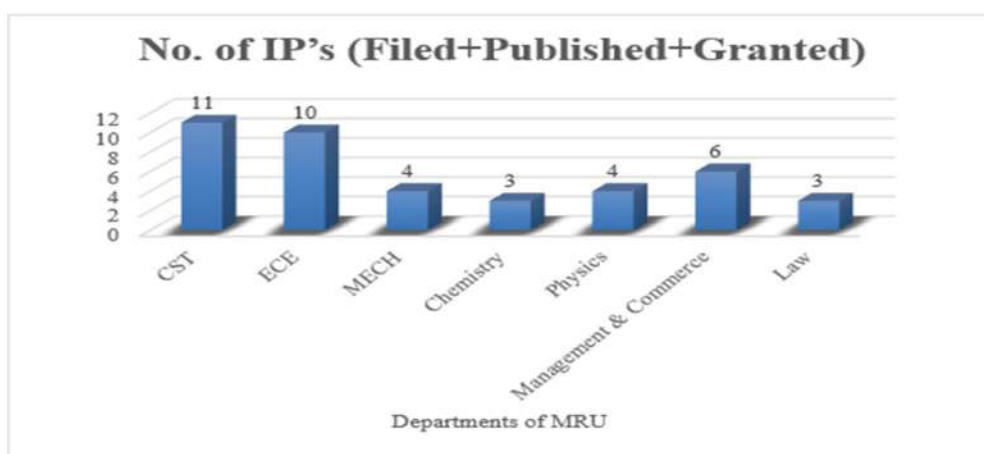
3.1.4 Patent Filings and Grants

Innovation at MRU is also reflected in the intellectual property generated by our researchers. The following table provides an overview of the patents filed, published, and granted across the various schools:

School	No. of IP's (Filed+ Published+ Granted)
School of Management & Commerce (SoMC)	6
School of Law (SoL)	3
School of Engineering (SoE)	23
School of Sciences (SoS)	7



Department	No. of IP's (Filed+Published+Granted)
CST	11
ECE	10
MECH	4
Chemistry	3
Physics	4
Management & Commerce	6
Law	3



These patents represent cutting-edge developments in various fields, from new technologies to innovative processes that have the potential to make a significant impact on society.

3.2 Funded Projects

The faculty at Manav Rachna University (MRU) has demonstrated exceptional commitment to advancing research by successfully securing funding for various projects from prestigious international and industry sources. These accomplishments reflect the university's emphasis on fostering a culture of innovation and its growing reputation as a hub for cutting-edge research.

Securing funding from international and industry sources is a testament to the quality and relevance of research being conducted at MRU. These funded projects span diverse domains, addressing critical global challenges and driving advancements in technology, sustainability, healthcare, and beyond. The financial support received not only facilitates groundbreaking research but also enhances the university's capability to collaborate with global stakeholders, further cementing its position as a leading institution in academic excellence.

Recognizing the transformative power of research, MRU consistently motivates its faculty members by offering seed funding for projects that aim to create a meaningful societal impact. These initiatives encourage researchers to explore innovative solutions to pressing real-world problems, fostering a sense of responsibility and contribution to the global community. The university's seed funding program serves as a catalyst for pioneering ideas, enabling researchers to lay the groundwork for future advancements that benefit society.

By combining institutional support with external funding opportunities, MRU is paving the way for its faculty to excel in their research endeavors. This dual approach not only empowers the faculty to make significant contributions to their fields but also aligns with the university's vision of shaping a better future through education and innovation.

These achievements underscore MRU's dedication to promoting a robust research ecosystem, inspiring its faculty and students to lead transformative initiatives that resonate globally.

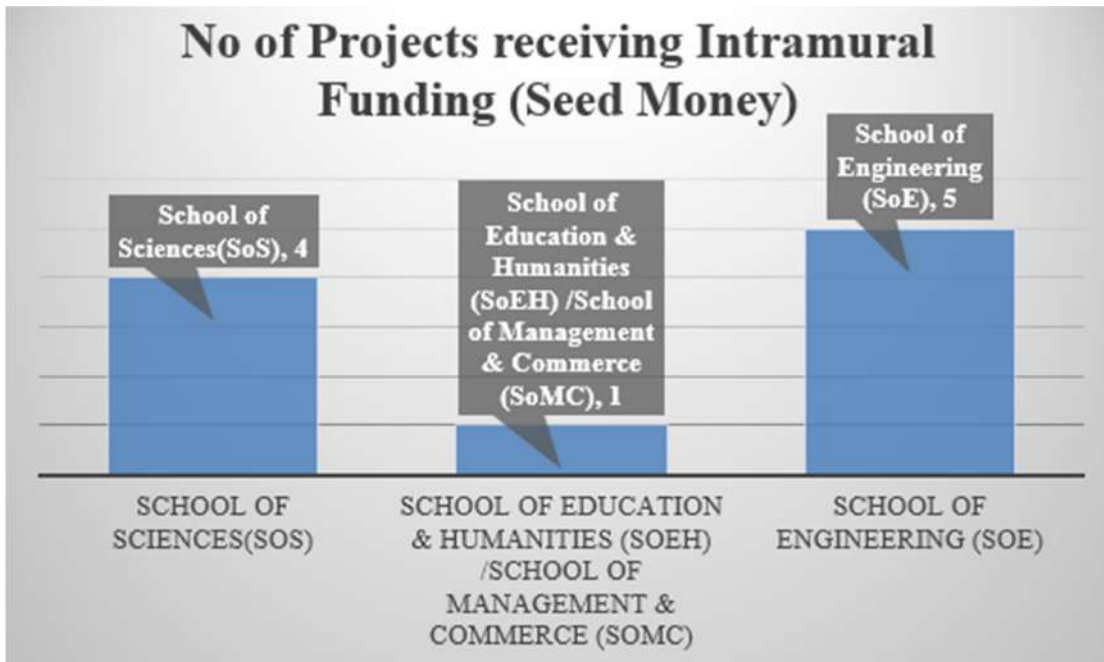
The total amount sanctioned under seed money by the University for the projects undertaken by internal Faculty members is Rs. 5,02,202/- for the Academic Year 2023-24, and the details are as follows:

3.2.1 Sanctioned Internal Funding Projects (Seed Money):

S.No.	Faculty Name	Department	Name of Projects	Sanctioned Amount	Sanctioned Date
1	Dr. Dinesh Kumar Sharma	Sciences-Physics	An Enhanced Multi-Beam Interference Utilizing Modified Lens System	8500	20.07.2023
2	Mr. Vijay Kumar Gill Dr. Parneeta Dhaliwal	ECE CST	Multilevel Parking System with Dynamic Pricing for Smart Cities	37400	21.08.2023
3	Dr. Parneeta Dhaliwal	CST	Bags Segregator Using Robotic Arm	32400	21.08.2023
4	Dr. Dinesh Kumar Sharma	Sciences-Physics	Lightning Protection System for Rooftop Solar PV Panels	14100	10.09.2023
5	Dr. Yogita Sharma Dr. Ritu Sharma	M&C E&H	Dhanyosmi: Gratitude as a Daily Habit	131562	22.09.2023
6	Dr. Yogita Sharma Dr. Parneeta Dhaliwal Mr. Vijay Kumar Gill Dr. Neeraj Chopra	M&C CST ECE M&C	Bring Hope	88100	27.09.2023

7	Dr. Mamta Arora Dr. Mrinal Pandey Mr. Tuhin Tazafder	CST CST CST	Streamlining Assessments with Automated MCQ Generation from Educational Videos	23600	05.10.2023
8	Dr. Dinesh Kumar Sharma	Sciences-Physics	Erosion Protection System for Solar PV Panels	4100	27.10.2023
9	Dr. Harsha Devnani Dr. Pradeep K. Varshney Dr. Vandana Nandal, BT, MRIIRS Ms. Moditma	Sciences-Chemistry	Anthocyanin Doped Coated Wick for Sustained and Fragrant Burning Green Magnetic Nanoparticles for Antimicrobial Coatings	119440	16.11.2023
10	Dr. J.P. Sharma Dr. Prashant Bhardwaj Mr. Piyush Mahendru	Mechanical	E-Bike	43000	
			Total Amount (In Rs.)	502202	

School Wise	No of Projects receiving Intramural Funding (Seed Money)	Total Seed Money Soughted
School of Sciences(SoS)	4	Rs.1,46,140/-
School of Education & Humanities (SoEH) /School of Management & Commerce (SoMC)	1	Rs.1,31,562/-
School of Engineering (SoE)	5	Rs.2,24,500/-



The total amount sanctioned for the Industry Sponsored Research Projects undertaken by Faculty members is Rs. 14,50,000/- for the Academic Year 2023-24, and the details are as follows:

3.2.2 Industry Sponsored Research Project details

S.No.	Faculty Name	Department	Name of Projects	Sanctioned Amount	Sponsoring Agency
1	Dr. Vinayak V. Pathak (PI) Dr. Sangita Banga (Co-PI)	Sciences- Chemistry	Development of Sustainable Algal Cultivation System for Integrated Wastewater Treatment CO ₂ Removal and Bioenergy Production	165000	Sandiya Exports Private Limited
2	Dr. Nibedita Hazarika (PI) Mr. Sharv Datt Anand (Co-PI) Ms. Kriti Dagar (Co-PI) Dr. Rashee Singh (Co-PI)	Education & Humanities	Capacity Building for Persons with Disability in Delhi NCR	112000	Sandiya Exports Private Limited
3	Dr. Mira Mishra (PI) Dr. Arvinder Kaur (Co-PI)	Education & Humanities	Revitalizing the Mentor-Mentee Relationship: An Analysis of the Mentor-Mentee Program at Manav Rachna University, Faridabad	45000	Sandiya Exports Private Limited
4	Dr. Parneeta Dhaliwal (PI) Dr. Ankita Gupta (Co-PI)	CST	Novel Techniques for Prediction of Fungal Diseases in Oil Seeds	250000	Sandiya Exports Private Limited

5	Dr. Rashi Banerjee (PI) Dr. Animesh Singh (Co-PI)	Management & Commerce	Happiness at Work, Workplace Spirituality, and Organization Citizenship Behaviour in MRU	223000	Sandiya Exports Private Limited
6	Dr. Kaveri Sharma (PI) Dr. Shaharyar Asaf Khan (Co-PI) Ms. Chaitali Wadhwa (Co-PI)	Law	Constitutional and Conjugal Rights of Jail Inmates in India with special reference to Delhi NCR	145000	Sandiya Exports Private Limited
7	Ms. Smriti Mishra (PI) Dr. J.P. Sharma (Co-PI)	Mechanical	Fabrication of Metal Composite and Foam by Friction Stir Processing & Optimization of its Process Parameters	200000	Sandiya Exports Private Limited
8	Mr. Vijay Kumar Gill (PI) Mr. Bhanu Pratap Chaudhary (Co-PI)	ECE	IoT for Enhanced Environmental Monitoring	210000	Sandiya Exports Private Limited
9	Ms. Sampriya Phukan (PI) Dr. Kanu Priya (Co-PI)	Law	Women Street Vendors: Economic Contribution	100000	Sandiya Exports Private Limited
			Total Amount (In Rs.)	1450000	

These projects highlight the trust placed in MRU's research capabilities by industry partners and international organizations, demonstrating the practical relevance and impact of our research initiatives.

3.2 Empowering Minds: University Workshops

Workshops and seminars are crucial in enhancing the knowledge base of students and faculty, fostering a culture of continuous learning and development. During the

academic year 2023-24, various departments at Manav Rachna University organized workshops that provided hands-on experience, exposure to the latest advancements in their respective fields, and opportunities for collaboration.

These workshops covered a wide range of topics, reflecting the interdisciplinary approach to education and research that MRU embodies. Faculty members and industry experts led these sessions, ensuring that participants gained valuable insights and practical skills.

The table below summarizes the workshops organized by different departments:

Department	No. of Workshops/Conferences Organized
IQAC	2
MRU Central	1
CST	3
ECE	2
Chemistry	1
Physics	1



These workshops were instrumental in bridging the gap between theoretical knowledge and practical application, providing participants with the tools they need to excel in their academic and professional pursuits. Additionally, these events fostered a collaborative environment where students and faculty could engage with industry professionals, enhancing their understanding of real-world challenges and opportunities.

The Workshops and Conferences organized by various departments and governing bodies of the university during the Academic Year 2023-24 are as follows:

Electronics and Communication Engineering

1. Five days online Short Term Course on Scilab Programming for Beginners from 24th to 28th July, 2023

A five-day online Short-Term Course (STC) on SCILAB® Programming for Beginners was organized from 24th July 2023 to 28th July 2023 at the AV Room, Swami Vivekanand Library, Manav Rachna University, Faridabad.



The Department of Electronics and Communication Engineering, Manav Rachna University in association with NITTR, Chandigarh organized a Short Term Course on **“SCILAB PROGRAMMING FOR BEIGNNERS”** hosted by **Prof. BALWINDER S DHALIWAL, ASSOCIATE PROFESSOR, ECE, NITTR**. The course aimed to introduce participants to the basics of Scilab programming, an open-source software for numerical computation.

The sessions were conducted by Dr. Balwinder S. Dhaliwal, Associate Professor at NITTR, Chandigarh, and attended by 36 faculty members. The program, coordinated by Dr. Meenakshi Gupta, Associate Professor at MRU, aimed to provide hands-on training in SCILAB® programming, fostering computational skills among the participants and enhancing their teaching and research capabilities. Dr. Balwinder S Dhaliwal and his team delivered lectures on SCILAB programming for beginners and new technologies on Electronics & communication. He also guided and motivated faculties regarding various programming software available in the field of Electronics and Communication being their counterparts. The STC was very motivating and faculties actively participated and interacted with him to clear all their doubts.

The course attracted a total of 36 participants from Manav Rachna University, Faridabad, and neighboring institutes. These participants were eager to enhance their skills in computational techniques using Scilab. The course curriculum encompassed

fundamental concepts of Scilab programming tailored for beginners. Participants were guided through various modules covering topics such as:

- ❖ Introduction to Scilab and its features
- ❖ Basic syntax and commands
- ❖ Data visualization and plotting
- ❖ Programming constructs and functions
- ❖ Applications in engineering and scientific computations

Key Highlights:

- Interactive sessions facilitated active participation and encouraged discussions among participants.
- Practical exercises and assignments were provided to reinforce learning and practical application of concepts.
- Experienced instructors from the Department of ECE, NITTTR, Chandigarh, ensured a comprehensive understanding of Scilab programming.

Conclusion: The one-week short term course on "Scilab Programming for Beginners" proved to be a valuable learning experience for all participants. By the end of the course, participants had acquired essential skills in Scilab programming, equipping them with the tools for computational analysis and problem-solving in their respective fields.

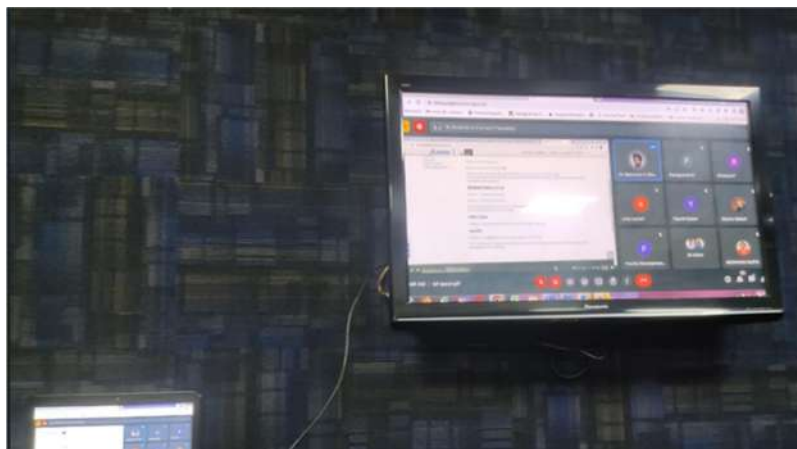
Some glimpses of the sessions:



Participants of the STC on Scilab



Dean Academics, Prof. S. Vashist interacting with Dr. Balwinder S. Dhaliwal during a session



ICT tools used for disseminating the knowledge to all the participants

Computer Science & Technology:

2. Faculty Development Program on Internet of Things in collaboration with ICT Academy



The CST and ECE departments of Manav Rachna University, in collaboration with ICT Academy, recently organized a one-week Faculty Development Program (FDP) on the theme of "Internet of Things." The program, held from November 28th to December 2nd, 2023, featured distinguished trainers: Dr. K. Subramanian, Technical Lead at Enthi Technology Solutions India Pvt. Ltd., and Dr. Jagadeswaran R., Technical Engineer at Enthi Technology Solutions India Pvt. Ltd. Thirty two enthusiastic participants actively engaged in this FDP, gaining valuable insights and knowledge in the dynamic field of Internet of Things.

This Faculty Development Program (FDP) was designed to provide participants with fundamental insights into the applications of the Internet of Things (IoT). It served as a high-level, career-oriented training program, emphasizing a hands-on approach to impart comprehensive experience with cutting-edge technologies. The primary objective was to equip participants with a solid foundation in IoT applications, ensuring a practical and skill-oriented learning experience.

The Objectives of the FDP were:

- To introduce the fundamental architecture of Microcontrollers
- To Learn the interface of peripheral devices(Sensors/Actuators)
- To explore the integration between Microcontrollers with the IoT platform
- Understand the concept of Wireless Communication Protocols for IoT Applications (Wi-Fi, Bluetooth, BLE)
- Understand the concept of MQTT, HTTP Protocols

The FDP started with an inaugural event on 28th November 2023 in the I block auditorium. The guests of the event were Mr. Abhinandan Kumar pandey, State Head, Government and Corporate Initiatives, ICT Academy, Mr Amit Vishvas, Relationship manager, ICT Academy. All the sessions were then organized in LT10.

The Faculty Development Program on IoT provided participants with a comprehensive understanding of IoT concepts, architectures, and practical skills in microcontroller programming and sensor interfacing. The program's interactive sessions and hands-on workshops facilitated active learning and engagement among participants, enabling them to incorporate IoT technologies into their teaching and research endeavors effectively. Participants expressed satisfaction with the content coverage, practical sessions, and the overall organization of the program. They appreciated the opportunity to learn new skills and explore emerging technologies in the field of IoT. The FDP ended on 2nd December 2023 with a valedictory session, marking the successful culmination of the program.

Some Glimpse of the Event:



Inauguration of the Faculty Development Development



Expert giving valuable insights and knowledge in the dynamic field of Internet of Things



3. Faculty Development Program on “Wireless Networks” in collaboration with NITTTR, Chandigarh.



The Department of Computer Science & Technology organized a five-day Faculty Development Programme (FDP) on “Wireless Network” in association with the National Institute of Technical Teachers Training & Research (NITTTR), Chandigarh, in an ICT-based online mode from 12th to 16th February 2024, held in Room No. 9, Second Floor, H Block, from 10:00 AM to 4:00 PM. The FDP featured three daily sessions conducted by eminent speakers from academia and industry who shared in-depth knowledge on wireless networks, highlighting technological advancements, practical applications, and future trends. Day 1 commenced with a keynote by Prof. Ramakrishnan on the revolutionary impact of wireless communication systems, followed by Er. S.K. Chopra's session on the evolution of mobile networks from 2G to 5G, and concluded with Dr. Sujata Pal discussing the latest research and developments in the field. On Day 2, Sh. Vipin Gupta elaborated on Software Defined Networking (SDN) and provided hands-on lab experiments, while Dr. Garima Saini discussed 5G's New Radio (NR) technology and its applications. Day 3 included Dr. C. Ramakrishna's explanation of Wireless Ad Hoc Networks (WANETs) and their self-configuring, decentralized nature, followed by Dr. Dilip Kumar's session on energy-efficient routing protocols for Wireless Sensor Networks (WSNs), and concluded with Mr. Sandeep Singhai's hands-on demonstration of Zigbee software. On Day 4, Dr. Rishu Chhabra highlighted the role of wireless networks in Intelligent Transportation Systems and demonstrated simulation tools like SUMO/NS-3, while Mr. Sandeep Singhai explained Bluetooth technology with practical demonstrations. The final day featured Dr. Nilesh Patil's session on troubleshooting network issues using Wireshark and strategies for DDoS defense. The FDP concluded with a valedictory session, participant feedback, and a group photograph, making it a comprehensive and impactful initiative for enhancing knowledge and expertise in wireless networks.

Glimpse of the FDP:



Inauguration of the Faculty Development Program



Empowering educators at our faculty development program



Faculties Testing their knowledge and dedication as educators in pursuit of continuous improvement



Faculties fuelling their passion for teaching and learning at the Faculty Development Program

4. Two Days Workshop on “Problem and Project-Based Learning-Design and Implementation”



**MANAV RACHNA
UNIVERSITY**
Declared as State Private University vide Regulation No. 25 of 2014

**Manav Rachna University,
Faridabad**

Organizing 2 Days FDP
“Problem and Project based Learning: An Introductory
workshop”
On
(12th Dec- 13nd Dec 2023)

The **Department of CST, SoE, MRU** organized a 2 days' workshop on “**Problem and Project-Based Learning - Design and Implementation**” in ILG-08 at MRU Campus from 12th December 23 – 13th December 23. The aim of this workshop is to enable participants to understand what is PBL, its principles and how to implement in their courses. Doing Project is not a PBL thus participants will find good PBL problems; which are at the heart of any PBL practice. The main objective of the workshop is to help teachers to implement PBL in their course. The contents covered during the workshop are listed below:

1. Need for changing towards PBL: Perspectives on Teaching Learning Practices
2. Perspectives on Professional practice OBE /NEP 2020 Paradigm
3. PBL Curriculum Design Principles and practice
4. PBL Problem characteristics

The workshop was led by the distinguished **Prof. (Dr.) Vikas Vithal Shinde**, an expert in the field and the first Indian Ph.D. in PBL from Aalborg University, Denmark. Dr. Vikas Vithal Shinde's extensive experience in Mechanical Engineering and his role as the Director of the Centre of Excellence in Project-Based Learning added significant value to the workshop. His passion for PBL and entrepreneurial ventures inspired participants.

Dr. Shinde initiated the workshop by addressing the need for a shift towards Problem and Project-Based Learning. Perspectives on teaching-learning practices were discussed, emphasizing the evolving landscape of education and the role of active learning methodologies. Participants delved into discussions on the Outcomes-Based Education (OBE) and the National Education Policy (NEP) 2020 paradigm, understanding how PBL aligns with these frameworks and contributes to holistic education. The core principles of designing a PBL curriculum were explored. Dr. Shinde shared insights into effective curriculum design, focusing on aligning learning outcomes with real-world problem-solving skills. The characteristics of PBL problems were discussed in detail. Participants learned how to identify and formulate problems that serve as the foundation for PBL practices.

Participants were guided to apply the principles of Problem and Project-Based Learning in designing a PBL curriculum. Dr. Shinde emphasized the importance of understanding PBL problem characteristics, which serve as a starting point for developing effective PBL practices. The workshop included many student-centric activities designed to provide hands-on experience. Participants were encouraged to learn and incorporate these activities into their teaching

practices to create an environment conducive to active learning. The workshop employed a diverse methodology including interactive lectures, presentations, white/blackboard activities, team exercises (Think, Pair, and Share), and poster presentations. Participants actively engaged in creating PBL Curriculum Design Posters and using PBL Canvas Workbooks.

The workshop was honored by the gracious presence of Prof. (Dr.) I.K. Bhat, the esteemed Vice-Chancellor of Manav Rachna University (MRU). Dr. Bhat shared valuable words of wisdom regarding the implementation of Problem and Project-Based Learning (PBL). Sir, emphasized the importance of adopting PBL as a pedagogical approach, considering it a transformative strategy for enriching the teaching-learning experience. His insights provided a strategic perspective on how PBL aligns with the university's goals and contributes to the overall academic development of students. Adding to the inspirational atmosphere, Prof. (Dr.) Goldie Gabrani, ED and Dean Research and Development stressed the need for educators to wholeheartedly adopt the PBL pedagogy, recognizing it's potential to enhance student engagement and foster critical thinking skills. Dr. Shruti Vashisht, the Dean of Academics at Manav Rachna University, provided valuable insights into the integration of PBL within the university's academic framework. She highlighted the role of PBL in achieving academic excellence and fostering a dynamic learning



Faculties discussing about the Project-Based Learning and its adoption in curriculum design



A team of faculties presenting their design poster for the solution to the given problem



Session on need for changing towards PBL, in progress



Prof. (Dr.) I.K. Bhat, the esteemed Vice-Chancellor of Manav Rachna University sharing valuable words of wisdom

Physics:

6. International Conference on Energy Materials and Rechargeable Batteries (ICEMRB-2023), held from December 19-22, 2023

The **International Conference on Energy Materials and Rechargeable Batteries (ICEMRB-2023)**, held from December 19-22, 2023, at Manav Rachna University, Faridabad, was organized by the Department of Sciences (Physics Program) and the University Instrumentation Center to promote knowledge exchange and collaborations in energy materials and rechargeable batteries. The conference featured 4 plenary, 8 keynote, 12 invited talks, 17 presentations by emerging researchers, 86 oral presentations, and 35 poster presentations, supported by esteemed organizations like SERB, CSIR, and Society for Semiconductor Devices, and associated with journals such as *RSC Advances* and *Materials Today Proceedings*. Distinguished speakers, including **Prof. D.K. Pandya (IIT Jammu)**, **Prof. M.V. Reddy**, **Prof. Vilas Pol (USA)**, and others, delivered insightful talks on topics like thin films, supercapacitors, battery materials, and energy applications, while international contributors like **Dr. Jae Yeon Park (South Korea)** and **Prof. Asanov (Russia)** added a global perspective. The conference opened with remarks by **Dr. Aditya Sharma**, and a welcome by Vice-Chancellor **Prof. (Dr.) I.K. Bhat**, culminating in a vote of thanks by **Prof. Meena Kapahi** and recognition of outstanding contributions through awards for oral and poster presentations. The event, funded by multiple agencies, successfully achieved its objectives of enhancing knowledge, fostering collaborations, and advancing research in energy materials, leaving a significant impact on students, researchers, and faculty members from India and abroad.



Inauguration of ICEMRB-2023



Group Photograph of the Participants with the Organizers and the Hon'ble Vice Chancellor, Prof. (Dr.) I. K. Bhat

7. Training Program on “Unearthed Dangers: The Hidden Threat of Solid Waste in disaster Risk” from 18th to 22nd March’ 2024.

Training Program
on
“Unearthed Dangers: The Hidden Threat of Solid Waste in Disaster Risk”
organised by
School of Sciences, Manav Rachna University, Faridabad
in collaboration with
Hazardous Substances Management Division (HSMD), MoEFCC, GoI
(18 To 22 March 2024)
Mode: Hybrid

SCAN THE QR CODE FOR REGISTRATION

Click on the Link:
<https://forms.gle/kbkeDCME7EDAPjxw9>

Organizing Committee

PROF. (DR.) L.K. BHAT CHIEF PATRON	PROF. (DR.) SANGITA BANGA HONORARY CHIEF PATRON
Prof. (Dr.) M. Kapahi Convener	Dr. Anasua Bardhan Co-Convener
Prof. (Dr.) D.K. Sharma Member	Dr. Sandeep Kumar Member
Dr. Vinayak V. Pathak Organizing Secretary	Dr. Arpit Sand Member
Dr. A. Sahai Treasurer	Dr. Aparna Vyas Member
Dr. Priti Gupta Member	Dr. A. Jayamani Member

- Registration fee: Free (Supported by MoEFCC, GoI)
- The candidates are requested to register online on or before 10th March 2024, 11:00 am by filling up the Google form using the mentioned link or by scanning the given QR code.
- The seats are limited in number; participants are requested to register at the earliest.

School of Sciences, Manav Rachna University Faridabad in collaboration with Hazardous Waste Management Division, Ministry of Environment Forest & Climate Change organized a five days training program Unearthed Dangers: The hidden threats of solid waste in disaster risk “from 18 to 22 March 2024. The objective of the training program was to provide insight on current practices and changes in solid waste management and to understand the risk due to improper handling of solid waste management. The first day of the training program was focused on the interlinking between solid waste generation and disaster risk.

The first day of the training program provided participants with a comprehensive overview on disaster risk reduction initiatives and its link with solid waste management practices. Dr. Muzaffar Ahmad, (Former Member, National Disaster Management Authority, India), Dr. Veenu Joon (Additional Director, MoEF&CC), Dr. Abdeesh K. Gangwar (Regional Director, CEE, India) delivered the expert talk on the first day. The focus of the second day of the training session was community-based participation in solid waste management and technical aspects of vermicomposting for solid waste management. Three distinguished experts viz. Dr. Deep Narayan Pandey (Special Centre for Disaster research, JNU), Dr. Mukesh Kanwar (Dr. H.S. Gour

University), Prof. Paromita Chakraborty (SRMIST) shared their insight on the second day.

The third day emphasized the health hazards due to lack of solid waste management. Prof D.K. Sharma (IIT Delhi), Dr. Kalpana Arora (Consultant, Ministry of Urban & Housing Affairs, GoI) and Prof. P.K. Joshi (JNU) delivered an expert lecture on the third day.

On the fourth day of the training program, Dr. Satyam Verma (Dr. H.S. Gour University) and Dr. R.P. Singh (Banaras Hindu university) shared their insights on the role of GIS for solid waste Management and case studies on solid waste management. Mr. Himanshu Tilwankar (Advisor, Vyoants) explained the plastic waste management and associated health risk on the fifth day of the training session.

Some Glimpse of the Event:



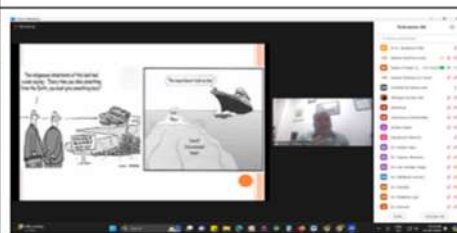
Facilitation to the Invited Speaker



Group Photograph with the Invited speakers after the inauguration ceremony



Group Photograph with the Invited speakers and participants at the venue



Internal Quality Assurance Cell (IQAC)

7. Five Weeks Faculty Orientation Program for the newly inducted Faculty Members from 5th August to 21st September 2023.

Internal Quality Assurance Cell (IQAC), MRU, launched the Faculty Orientation Programme for the faculty members who joined the university in August 2022 onwards on 5th August 2023. The comprehensive orientation programme spanned over five weeks from 5th August to 21st September 2023, aimed to equip the participants with the necessary knowledge and tools to excel in their roles.

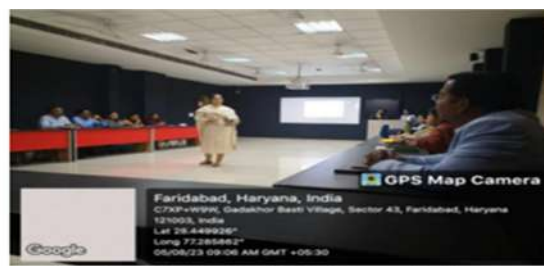
Day 1 began with a Faculty Diagnostic Assessment by Prof. (Dr.) Geeta Thakur, analyzing faculty knowledge and identifying necessary skills. Subsequent sessions covered institutional policies by Prof. (Dr.) Sangita Banga and faculty roles in student development by Hon'ble Vice Chancellor Prof. (Dr.) I.K. Bhat. The day concluded with an emphasis on student-centric learning, 21st century skills in Teaching practices, and Bloom's Taxonomy.

On August 10th, 2023, during the second day of the program, Honorable Vice Chancellor Sir, Prof. (Dr.) I.K. Bhat spearheaded a session focusing on active learning strategies. The session underscored the pivotal role of teachers in ensuring high-quality facilitation, emphasized the importance of aligning activities with learning objectives, and highlighted the significant impact of the overall learning environment on students' development.

On August 17th, 2023, during Day three of the program, Professor (Dr.) I.K. Bhat, the Honorable Vice Chancellor, conducted an enlightening session on Outcome-Based Education (OBE) and the process of crafting examination question papers. In this insightful session, participants gained a comprehensive understanding of OBE principles and how they can be effectively incorporated into the educational framework.



Session Taken by Prof. Geeta Thakur



Session taken by Prof. (Dr.) Sangeeta Banga



Innovative Pedagogy of Jigsaw a way of collaborative and cooperative learning technique.



Hon'ble VC, Prof. I.K. Bhat Sir taking a session on Innovative Pedagogies for Teaching in Higher Education.

On August 19th, 2023, Day four delved into the concepts of CO (Course Outcomes), PO (Program Outcomes), and PSO (Program Specific Outcomes), along with their mapping and attainment. Professor (Dr.) Sangita Banga, the Pro-Vice Chancellor at MRU, elucidated how Outcome-Based Education (OBE) fosters accountability, ensures quality, and facilitates continuous improvement within the educational framework. The session also elucidated the process of calculating CO-PO attainment through the EMS facility, elucidating the various parameters responsible for this calculation. Additionally, Hon'ble Vice Chancellor, Prof. (Dr.) I. K. Bhat, provided hands-on experience in "Cooperative learning using Jigsaw for stress management." The activity-based session concluded with participants gaining in-depth knowledge and confidence in the demonstrated technique

The session on the fifth day, on August 24th, 2023, concentrated on the generation of electronic content. Dr. Savita Sharma, Associate Professor at the School of Education & Humanities, emphasized the crucial role of creating E-content as a key avenue for the continuous professional development of faculty members. This significance was underscored, particularly in light of recent initiatives by the UGC in this field. Various aspects related to the complexities of E-content development and open educational resources across various platforms were explored. Major emphasis was placed on the fundamental requirement for faculty members to possess a thorough understanding of Creative Commons licenses and copyright norms during the E-content development process.

On the 6th day (August 31st, 2023) of the FDP **Prof. (Dr.) Sangita Banga**, Pro-Vice Chancellor, led an insightful session on "Accreditations and Rankings – NIRF/NAAC/NBA/QS". Dr. Banga explained the crucial role that accreditations and rankings play in assessing the quality and standing of educational institutions. The session provided a detailed overview of the key attributes of assessment criteria and outlined the requirements necessary to achieve the goal of quality sustenance.

On the 7th day (September 2nd, 2023) of the FDP, **Prof. (Dr.) Pradeep Kumar Varshney** led an informative session on "Research & Its Importance - Innovation, Entrepreneurship, and Startup & Institutional Support." The pivotal role of research outcomes, their impact on academic excellence and societal progress were emphasized by Prof. Varshney. The session delved into the symbiotic relationship between robust research practices and the university's global ranking and accreditation, shedding light on how a strong research foundation attracts top-tier faculty, students, and collaborative opportunities. The session also provided an extensive overview of MRU's cutting-edge research facilities, research policies, and the strategic research plan, highlighting the university's dedication to foster an environment conducive to groundbreaking research, innovation, and entrepreneurial endeavors.

During the second session of the day on "**Course File Maintenance- ERP**" **Prof. (Dr.) Sangita Banga**, the esteemed PVC at MRU, detailed the integration of various ERP modules and their functions covering different aspects of course content

development & delivery ensuring alignment with academic standards and institutional goals. Further, during the third session on "**Curriculum Planning and Development**" Prof. Banga emphasized its role in shaping student learning experiences. The need for a thorough analysis of identifying curriculum gaps, considering industry requirements, student aspirations, and societal needs was discussed. Prof. Banga explained the importance of learning objectives, their alignment with the institution's mission, novel pedagogical approaches and the role of technology in enhancing the learning experience and preparing students for the digital age. An edifying session on **Project Based Learning: Developing Rubrics for Project Based Learning** on 2nd September, 2023 was conducted by **Prof.(Dr.) Geeta Thakur**. As an initiative for best practices and developing innovative teaching methods, the Elementary Engineering Education (EEE) model was explained in detail with live, exemplary demonstrations of learning by doing. SAMR model for improving the integration of technology along with the different stages of enhancement, namely substitution, augmentation, modification, and redefinition, were discussed and explained. The eighth day on 21st September 2023 by **Prof. Geeta Thakur** dealt with the Evaluation, Engagement, and Entertainment model of Digital Learning. The importance of maintaining a balance between Evaluation, Engagement, and Entertainment for effective digital learning was stressed. Successful case studies, offering valuable insights and strategies for implementation in the digital learning were illustrated. Throughout the program, emphasis was placed on fostering engaging and effective learning environments, aligning teaching methodologies with contemporary educational paradigms, and equipping faculty with necessary tools for a dynamic academic landscape.

Valedictory session for the FOP:

The session was started by Dr. Deepa Arora, IQAC director, MRU. She has provided the recap of various sessions conducted throughout the FDP for new faculty members of MRU. She has given overview of the FDP objectives, themes, and agenda. She has given summary of achievements, outcomes, and impact of the FDP on participants, organizations, and the broader community. She acknowledged the contributions made by speakers of various events, volunteers, and attendees. She expressed gratitude to the organizing committee, supporting staff, and all individuals and organizations involved in making the event a success. The certificate of participation was distributed by Honorable Vice Chancellor sir and Pro-Vice Chancellor ma'am.

8. Ph.D. Orientation Program for the newly inducted Research Scholars on 19th August, 2023 and 17th February 2024, respectively for the second consecutive batch.

Manav Rachna University welcomed Ph.D. scholars Batch 2023-24 (July Session) in Orientation ceremony held on August 19th, 2023. This is the eleventh batch of Doctoral Program at Manav Rachna University.

Research Scholars from various streams like Management, Education, Sciences, Law and Engineering were part of the orientation program. The Orientation

program was started with the Hawan ceremony followed by the Sessions on key policies and processes. The event was graced by various dignitaries including **Prof. (Dr.) I.K. Bhat (Hon'ble Vice Chancellor, MRU)**, **Prof. (Dr.) Sangita Banga (Pro Vice Chancellor, MRU)**, **Prof. (Dr.) Pradeep Varshney (Dean Doctoral Program, MRU)**, **Prof. (Dr.) Shruti Vashisht (Dean Academics)**, **Prof. (Dr.) Geeta Thakur (Dean Student Welfare)**, **Prof. (Dr.) Parul Jhajharia (Dean Management & Humanities)**, **Prof. (Dr.) Kanu Priya (Dean Law)**, other Deans and HoDs, Ph.D. departmental coordinators and faculty members.



During Hawan

The orientation program was aimed at stirring the innate potential of every scholar who will now be walking the campus for their journey towards Doctoral Degree next few years. The ceremony was marked by the address of **Prof. (Dr.) I.K. Bhat (Hon'ble Vice Chancellor, MRU)** who gave his blessings to the scholars and highlighted the importance of originality in research work, advised all scholars to avoid plagiarism of any kind and manipulation of data. Sir emphasized a lot on maintaining the habit of documentation and publishing in reputed journals. All the participants in the session felt highly motivated by his words of wisdom. **Prof. (Dr.) Sangeeta Banga (Pro Vice Chancellor, MRU)**, highlighted the importance of Patience, Hard Work and Dedication in Ph.D. She also motivated and encouraged the scholars to come out with quality research work and to pick up research problems pertaining to societal issues. The next session was taken by **Prof. (Dr.) Pradeep Varshney (Dean Doctoral Program, MRU)** on "Research Inputs for Quality Publication" on how scholars can proceed in Ph.D. and complete it in a stipulated time. **Prof. (Dr.) Prinima Gupta, Ph.D. Coordinator** briefed them about the Ph.D. program and highlighted all the key steps of the Ph.D. process with all the formats.



PhD Coordinator Dr. Prinima Explaining PhD Process



Ph.D. Batch

Course work subject introduction was given by course work faculties Dr. Bhawna Singla and Dr. Rashmi Banerji and Dr. S.K Bose. A Library session was conducted by Dr. Savita Sharma and Dr. Mamta Kaushik (Deputy Librarian, MRU) on the awareness of Library Resources and plagiarism tools in Swami Vivekananda Library.

The scholars appreciated this new experience, and important sessions. The vote of thanks was delivered by Prof. (Dr.) Prinima Gupta.

January Session 2024

Manav Rachna University welcomed Ph.D. scholars Batch 2023-24 (January Session) in Orientation program held on **February 17, 2024**. This is the twelfth batch of Doctoral Program at Manav Rachna University.

Research Scholars from various streams like Management, Education, Sciences, Law and Engineering were part of the orientation program. The Orientation program was started with the Hawan ceremony followed by the Sessions on key policies and processes. The event was graced by various dignitaries including **Prof. (Dr.) I.K. Bhat** (Hon'ble Vice Chancellor, MRU), **Prof. (Dr.) Sangita Banga** (Pro Vice Chancellor, MRU), **Prof. (Dr.) Goldie Gabrani** (Dean Research, MRU), **Prof. (Dr.) Shruti Vashisht** (Dean Academics), other Deans and HoDs, Ph.D. departmental coordinators and faculty members in I Block Auditorium.



During Hawan

The orientation program was aimed at stirring the innate potential of every scholar who will now be walking the campus for their journey towards Doctoral Degree next few years. **Dr. Anshuman Sahai, PhD Coordinator** extended a warm welcome to the Honorable Vice-Chancellor, Prof. (Dr.) I.K. Bhat (Hon'ble Vice Chancellor, MRU) and other dignitaries. The ceremony was marked by the address of **Prof. (Dr.) I.K. Bhat** (Hon'ble Vice Chancellor, MRU) wished everyone with his blissful words and highlighted the significance of the day, During his address, he motivated scholars to do quality research, highlighted the importance of originality in research work and advised all scholars to avoid plagiarism of any kind. **Prof. (Dr.) Sangita Banga** (Pro Vice Chancellor, MRU), highlighted the importance of Patience, Hard Work and Dedication in Ph.D. She also motivated and encouraged the scholars to come out with quality research work and to pick up research problems pertaining to societal issues. The next session was taken by **Prof. (Dr.) Prinima Gupta** (Deputy Director Doctoral Program, MRU) briefed them about the Ph.D. program and highlighted all the key steps of the Ph.D. process with all the formats and guided them about how scholars can proceed in Ph.D. and complete it in a stipulated time.



Session during Orientation by Honourable VC Sir



Session by Dr. Rashi Banerji

In the next session Course work subject introduction was given by course work faculties **Dr. Rashi Banerji**, **Dr. Bhawna Singla** and **Dr K. Deepa** followed by the brief introduction of all the Ph.D scholars of the new batch. A Library session was conducted by **Dr. Savita Sharma** and **Dr. Mamta Kaushik (Deputy Librarian, MRU)** on the awareness of Library Resources and plagiarism tools in Swami Vivekananda Library.



During orientation in I-Block Auditorium

MRU-Central

9. Five Weeks Faculty Orientation Program for the newly inducted Faculty Members from 5th August to 21st September 2023.

Internal Quality Assurance Cell (IQAC), MRU, launched

3.3 Innovation Hubs: Research, Innovation, and Incubation

Piyush Sir Working on it.

3.4 Champions of Change: Innovations and Competitions Achievements

Innovations and competitions play a pivotal role in driving progress across various fields, from technology to the arts.

Innovations

Innovations refer to the introduction of new ideas, products, or methods that significantly improve existing solutions or create entirely new opportunities. They often arise from:

1. **Research and Development:** Investment in R&D leads to breakthroughs in fields like biotechnology, artificial intelligence, and renewable energy.

2. **Collaboration:** Partnerships between businesses, academic institutions, and governments foster an environment ripe for innovation.
3. **Technology:** Advances in computing, materials science, and communication technologies continuously reshape industries.

Competitions

Competitions serve as catalysts for innovation by challenging individuals and teams to solve problems creatively. They can take various forms, including:

1. **Hackathons:** Events where programmers and developers collaborate intensively over a short period to create software solutions.
2. **Design Challenges:** Competitions focused on developing new products or services, often addressing specific social or environmental issues.
3. **Science and Engineering Fairs:** Platforms for students and researchers to showcase their projects and gain recognition.

Achievements

Achievements in innovation and competitions can lead to:

- **Recognition and Awards:** Winners often receive accolades that can elevate their careers and visibility in their respective fields.
- **Funding Opportunities:** Successful projects may attract investors or grants, enabling further development and commercialization.
- **Networking:** Competitions often connect participants with industry leaders and like-minded innovators, fostering collaboration and mentorship.

Overall, the intersection of innovation and competition fuels growth, encourages creative thinking, and addresses global challenges, making it an essential part of progress in society.

3.4.1 Publications in Journals

S.No	Title of the Paper	Authors	Name of Journal	Journal Publication National / International	Indexing (Scopus/ WoS/ PubMed/ UGC Care)
1	Fire Alarm System Through Smoke Detection	Manya Sinha, Shivank Solanki, Sudeep Batra, Yojna Arora, Abhishek Tewatia	International Journal of Innovative Research in Computer Science and Technology	International	Scopus
2	Systematic Review of the Association between Cancer-Related Dementia and Mality: Systematic Review and Meta-Analysis	Chirag Varshney, Priyal Mittal, Mayank Bishra & Yojna Arora	International Journal of Innovative Research in Computer Science and Technology	International	Scopus
3	Modified Jain-Petthe-Baskakov-Durrmeyer Operators and their Quantitative Estimates	Honey Sharma and Ramapati Maurya	Journal of Classical Analysis	International	-
4	Thermophysical Properties Analysis of Al ₂ O ₃ , MgO and GO Nanofluids with Water for Solar Still	Dr. Ajit, Gianender Kajal, Pratibha Malik, Himanshu Garg, Rahul Lamba	Materials Today: Proceedings	International	Scopus
5	An Experimental Investigation of Gas Tungsten ARC Welding Aspects on Stainless Steel (SS304) using Taguchi Method	Gianender Kajal, Ajit, Rahul Lamba, Himanshu Garg, Pratibha Malik	Materials Today: Proceedings	International	Scopus
6	Approximation Schemes for A Quadratic Type Generalized Isoperimetric Constraint Fractional Variational Problems	Divyansh Pandey, Kamlesh Kumar & Rajesh K. Pandey	The Journal of Analysis	International	Scopus
7	Dimension Reduction in the Sagittal Plane for Diagnosis of Mild Cognitive Impairment	Harsh Bhasin, Vishal Deshwal & Arush Jasuja	Communications in Computer and Information Science	International	Scopus
8	Validation of Happiness at Workplace Scale in India – An Empirical Study on EdTech Employees	Preeti Goel, Animesh Singh	Industrial and Commercial Training	International	Scopus
9	Synthesis and Characterization of ZnGa ₂ O ₄ :Cr ³⁺ +Ge ³⁺ Compounds with Tunable Photoluminescence Properties	Pankaj Kumar, Aditya Sharma, Priyanka Bishnoi, Ankush Vij, Sandeep Kumar, Hyun-Joon Shin, K. H. Chae, B. H. Lee & S. O. Won	Journal of the Korean Physical Society	International	Scopus

10	Heterogeneous Catalysis for Sustainable Energy	Jaya Tuteja	SynOpen	International	Scopus
11	A Psychological Approach to Promote Climate Change and Sustainable Economic Development Using Information and Communication Based Application	Diwakar Chaudhary, Vipluv Pathak, Kriti Swarup, Mukul Pratap Singh, Rashi Baliyan, Priyanka Chauhan	Journal for Re Attach Therapy and Developmental Diversities	International	Scopus
12	Missing Found Block: Blockchain System to File Missing and Found FIRs	Riya Sapra, Pameeta Dhaliwal	International Journal of Electronic Governance	International	Scopus
13	Attempt to Commit Suicide: Offence or Not its Time to Look Beyond IPC	Dr. Kaveri Sharma, Inderpreet Kaur	CPJ Law Journal	National	UGC Care
14	Growth Strategies of Li7La3Zr2O12 Electrolytes for Li-ion Thin Film Battery	Singh J.P., Paidi A.K., Lee S.	Chemical Engineering Journal Advances	International	Scopus
15	Fuzzy Local Information C -Means based Clustering and Fractional Dwarf Mongoose Optimization Enabled Deep Learning for Relevant Document Retrieval	Gunjan Chandwani, Anil Ahlawat	Engineering Applications of Artificial Intelligence	International	Scopus
16	Experimental and Computational Studies of a Novel Metal Oxide Nanoparticle/Conducting Polymer Nanocomposite (TiO2/PVP) as a Corrosion Inhibitor on Low-Carbon Steel in Diprotic Acidic Medium	Himanshi Bairagi, Priya Vashishth, Rajni Narang, Sudhish Kumar Shukla, Bindu Mangla	Industrial and Engineering Chemistry Research	International	Scopus
17	Comparing Social Learning and Emotional Learning in their Impact on Teacher-Student Relationships: A Study of Effective Educational Practices	Palakk Gupta, Tarundeep Kaur	European Chemical Bulletin	International	Open Access E-Journal
18	A Study of the Impact of Demographics on the Use of Technology tools by A Kirana Owner	Hitesh Kakar, Rashi Banerji & Mandeep Singh	Samdarshi	International	Scopus
19	Digital Jurisprudence and E-Governance: Indian Judiciary's Pivotal Shift Towards Expedited Justice	Alex Joseph, Kaveri Sharma	South India Journal of Social Sciences	National	UGC Care Approved, Group I, Bi-

	Delivery				Annual Journal
20	Thermal and Exergy Analysis of N-Semi-Transparent Photovoltaic Thermal Air Collectors Connected in Series/Parallel	G.N. Tiwari, Prashant Bhardwaj, Sujata Nayak, Arvind Tiwari and V.K. Dwivedi	International Journal of Renewable Energy Technology	National	-
21	Intrusion Detection System for IoT-Based Healthcare Intrusions with Lion-Salp-Swarm-Optimization Algorithm: Metaheuristic-Enabled Hybrid Intelligent Approach	Nidhi Goswami, Sahil Raj, Deepti Thakral, José Luis Arias-González, Judith Flores-Albornoz, Edwin Asnate-Salazar, Dhiraj Kapila, Sanjay Yadav, and Surendra Kumar	Engineered Science	International	Scopus
22	Incorporating Emotional Intelligence Training in Teacher Education Programs	Rashee Singh	Shodh Prabha	National	UGC Care Group I Journal
23	A Language Lending Itself: Mapping Clusters of Contextually Close Cognates in Indo-European Languages	Sarthak Rastogi, Manpreet Kaur	IETE Journal of Research	International	Scopus
24	Excitation of the Laser Wakefield by Asymmetric Chirped Laser Pulse in under Dense Plasma	Vivek Sharma, Sandeep Kumar, Niti Kant & Vishal Thakur	Journal of Optics	National	Scopus
25	Influence of Rotational Tool Speed on Metallurgical Characterization of Friction Stir Welded Joint of AZ91D and AA2024	Pradeep Kumar Mouria, Ranganath M. Singari & Reeta Wattala	Journal of Adhesion Science and Technology	International	Scopus
26	Comparative Study of Polyanthranilic Acid and Sulphonated Polyaniline on the Mild Steel Corrosion in Aqueous Hydrochloric Acid	Abhishek Dwivedi, Sudhish Kumar Shukla, Prem Kumar Bharti, Nakul Gupta, Kuldeep K. Saxena, Yagya Dutta Dwivedi	Canadian Metallurgical Quarterly	International	Scopus
27	Simultaneous Exposure of Contrasting Vigna Radiata Cultivars to Macrophomina Phaseolina Infection and Drought Stress: Morpho-Physiological and Biochemical Implications	Sahib Kaur, Nilima Kumari, Pooja Parmar, Vinay Sharma	Plant Biosystems - An International Journal Dealing with all Aspects of Plant Biology	International	Scopus
28	Toxic Traits: Unpacking the Relationship Between Personality and Workplace Bullying and its	Samiksha Singh, Sunil Rai, Geeta Thakur & Anurag Singh	Academy of Marketing Studies Journal	International	Peer Reviewed Journal

	Repercussion				
29	Use of Image Recognition Technology in Generating Reports from Kirana Stores in India for FMCG Companies	Hitesh Kakar, Rashi Banerji, Mandeep Singh	European Economic Letters	International	Scopus
30	Influence of Swift Heavy Ion Irradiation on Bimetallic Gold-Silver Nanoparticles in Dielectric Matrices and Their Optical Properties	Ksh. Devarani Devi, Aditya Sharma, Sunil Ojha, Jai Parkash, Ambuj Mishra, Fouran Singh	Materials Today: Proceedings	International	Scopus
31	Study the Effect of total Defect Density Variation in Absorbing Layer on the Power Conversion Efficiency of Lead Halide Perovskite Solar Cell using SCAPS-1D Simulation Tool	Saumya Vaish, Shiv Kumar Dixit	Materials Today: Proceedings	International	Scopus
32	Preserving Security in Internet-of-Things Healthcare System with Metaheuristic-Driven Intrusion Detection	Nidhi Goswami, Sahil Raj, Deepti Thakral, José Luis Arias-González, Judith Flores-Albornoz, Edwin Asnate-Salazar, Dhiraj Kapila, Sanjay Yadav and Surendra Kumar	Engineered Science	International	Scopus
33	Prolate Spheroidal Quantum Dot: Effect of Dot Size and Eccentricity on Confined Energy States	Komal Jain, Deepti Maikhuri, Anshuman Sahai, Soumyadeep Manna	Materials Today: Proceedings	International	Scopus
34	Monoclinic to Cubic Structural Transformation, Local Electronic Structure, and Luminescence Properties of Eu-Doped HfO ₂	Rajesh Kumar, Jitender Kumar, Ramesh Kumar, Akshay Kumar, Aditya Sharma, S. O. Won, K. H. Chae, Mukhtiyar Singh and Ankush Vij	Applied Physics A-Materials Science & Processing	International	Scopus
35	Low Carbon Steel Corrosion Inhibition Using Environment-Friendly Solanum Lycopersicum Extract in Monoprotic and Diprotic Acidic Medium	Priya Vashishth, Bindu Mangla, Himanshi Bairagi, Rajni Narang, Sudhish Kumar Shukla	Chemical Engineering Communications	International	Scopus

36	Impounding Behavioral Connotations for Hate Speech Analysis – A View Towards Criminal Investigation using Machine Learning	Barkhashree & Parneeta Dhaliwal	International Journal of Information Technology	International	Scopus
37	A Walk-through towards Network Steganography Techniques	Urmila Pilonia, Manoj Kumar, Rohit Tanwar, Neha Nandal	Informatics and Automation	International	Scopus
38	Handling Illumination Variation for Motion Detection in Video Through Intelligent Method: An Application for Smart Surveillance System	Manoj Kumar, Dileep Kumar Yadav, Susmita Ray & Rohit Tanwar	Multimedia Tools and Applications	International	Scopus
39	Crack Formation and Optical Properties in 175 MeV Au13+ Ion Beam Irradiated CeO2 Thin Films		Radiation Effects and Defects in Solids	International	Scopus
40	Applicability of Drugs as Sustainable Corrosion Inhibitors	Rajni Narang, Priya Vashishth, Himanshi Bairagi, Rashmi, Sudhish K. Shukla, Bindu Mangla	Advanced Materials Letters	National	
41	India's Renewable Energy Research and Policies to Phase Down Coal: Success after Paris Agreement and Possibilities Post-Glasgow Climate Pact	Kripal Singh, Ram Swaroop Meena, Sandeep Kumar, Shalini Dhyani, Seema Sheoran, Har Mohan Singh, Vinayak V. Pathak, Zaira Khalid, Anita Singh, Kapil Chopra, Somvir Bajar, Faiz Ahmad Ansari, Sanjay Kumar Gupta, Sunita Varjani, Richa Kothari, Vineet Veer Tyagi, Bhaskar Singh, Chaeho Byun	Biomass and Bioenergy	International	Scopus
42	Tailored TiO2 Nanostructures for Designing of Highly Efficient Dye Sensitized Solar Cells: A Review	Gursimran Kaur, Puneet Negi, Ruhit Jyoti Konwar, Hemaunt Kumar, Nisha Devi, Gagandeep Kaur, Himani, Manpreet Kaur, Rakesh Sharma, Prakash Chandra Sati, Vinod Kumar, Pankaj Sharma, Jitendra Pal Singh, Ajar Nath Yadav	Nano-Structures & Nano-Objects	International	Scopus

43	Effect of Frequency Chirp and Pulse Length on Laser Wakefield Excitation in Under-Dense Plasma	Vivek Sharma, Sandeep Kumar, Niti Kant & Vishal Thakur	Brazilian Journal of Physics	International	Scopus
44	Detection of Plant Diseases using Image-Based Similarity Measures of Pythagorean Fuzzy Sets	Romisha, Shruti Vashist	Indonesian Journal of Electrical Engineering and Computer Science	International	Scopus
45	The Role of Emotional Intelligence In Effective Leadership	Umesh U, Ramshankar Varma, Rashee Singh, A Annapurna, R. Usharani	Boletín De Literatura Oral	International	Scopus
46	Global Trends in Waste Materials: A Bibliometric Analysis	Priyanka Chadha, Parul Yadav, Mona Sharma, Yogita Sharma, Richa Nangina, Kriti Sharma, Vafaeva Khristina Maksudovna	Materials Today: Proceedings	International	Scopus
47	Enhanced Laser Wakefield Acceleration by A Circularly Polarized Laser Pulse in Obliquely Magnetized under-Dense Plasma	Vivek Sharma, Sandeep Kumar, Niti Kant & Vishal Thakur	Optical and Quantum Electronics	International	Scopus
48	Analysis of Solar Water Desalination using Hybrid Nanofluids: An Experimental Study	Ajit, Harshit Pandey, Naveen Kumar Gupta	Journal of Thermal Engineering	International	Scopus
49	Effect of Tooltip Profile and Tilt Angle on Al8090-TiH2/Al2O3 Foam and its Mechanical Characterization	Smriti Mishra, Jatinder Kumar, and Hari Singh	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	International	Scopus
50	An Exploratory Study For Identification of Components in Holistic Report Card For Primary Trainee Teachers	Pradeep Gusain, Dr. Mira Mishra	Journal of Research Administration	International	Scopus
51	Effectiveness of Higuchi Fractal Dimension in Differentiating Subgroups of Stressed and Non-Stressed Individuals	Nishtha Phutela, Goldie Gabrani, Ponnurangam Kumaraguru & Devanjali Relan	Multimedia Tools and Applications	International	Scopus
52	Experimental Investigation of Sustainable Corrosion Inhibitor Albumin on Low-Carbon Steel in 1N HCl and 1N H2SO4	Priya Vashishth, Himanshi Bairagi, Rajni Narang, Sudhish K. Shukla, Lukman O. Olasunkanmi, Eno E.	Results in Surfaces and Interfaces	International	Scopus

		Ebenso, Bindu Mangla			
53	Evaluation of 5 Different Dimensions of Self-Efficacy of Adolescents Based on Gender	Neha Goswami, Rashee Singh	Journal of Research Administration	International	Scopus
54	Adsorption Study of Antibiotic Drug Doxycycline to Protect Mild Steel Surface from Sulphuric Acid Solution	Sudhish Kumar Shukla, Somya Tanwer	Progress in Color, Colorants and Coatings	International	Scopus
55	The Role of New Age Parent As Mentor and Pedagogue of Value Education : Insights from Ancient Indian Wisdom	Mira Mishra	Shodhak: A Journal of Historical Research	National	UGC Listed
56	Decision Tree Regression Analysis of Proposed Metric Suite for Software Fault Prediction	Gurmeet Kaur, Jyoti Pruthi & Parul Gandhi	SN Computer Science	International	Scopus
57	An Efficient Meta-Heuristic Algorithm Based on Water Flow Optimizer for Data Clustering	Ramesh Chandra Sahoo, Tapas Kumar, Poonam Tanwar, Jyoti Pruthi & Sanjay Singh	The Journal of Supercomputing	International	Scopus
58	India as an International Commercial Arbitration Hub: Challenges	Jasmin Kurian & Kanu Priya	Acta Scientiae	International	Scopus
59	The Making of Patanjali Brand	Ravikant Sharma, Chand Rashid, Mujibur Rahman & Maharaj Krishan Koul	Korea Review of International Studies	International	Scopus
60	Impact of Tool Pin Profile on Mechanical and Microstructural Properties of Friction Stir Welded Joints of AA2024 and AZ91D	Pradeep Kumar Mouria, Ranganath M. Singari & Reeta Wattal	Journal of Materials Engineering and Performance	International	Scopus
61	Local Cone Approximations in Non-Smooth K-Univex Multi-Objective Programming Problems	Tadeusz Antczak and Kalpana Shukla	International Journal of Mathematics in Operational Research	International	Scopus
62	Recovery of Lithium from Waste Lithium-ion Batteries-A Review	Pradeep V.K., Shveta M.			Scopus
63	A Novel Approach for Hand-Written Digit Classification Using Deep Learning	Tamanna Sachdeva, Nisha Jha, Geeta, Hemalatha Thanganada, Mostafa M. Salah, Shaurya Deep & Chaman Kumar	International Journal of Intelligent Systems and Applications in Engineering	International	Scopus

64	Effect of Wiggler Magnetic Field on Wakefield Excitation and Electron Energy Gain in Laser Wakefield Acceleration	Vivek Sharma, Sandeep Kumar, Vivek Thakur, Nitikant	Zeitschrift fur Naturforschung - Section A Journal of Physical Sciences	International	Scopus
65	Performance Evaluation of LSB Steganography Based on Multiple Image Formats	Urmila Pilonia, Manoj Kumar, Vivaan Mittal	Journal of Discrete Mathematical Sciences & Cryptography	International	Scopus
66	The Significance of A Comprehensive Refugee Protection Framework for the Protection of the Human Rights of Refugees	Adv. Linto K.B & S.K. Bose	The International Journal of Interdisciplinary Organizational Studies	International	Scopus
67	Enhancement of Electron-Bunch Quality in Bubble Domain Utilizing Plasma Ramp Profile with Various Density-Hill Widths in Laser Wakefield Acceleration	Mohit Kumar, Hitendra K. Malik & Sandeep Kumar	Optical and Quantum Electronics	International	Scopus
68	Refugees and their Human Right Protection in India	Adv. Linto K.B. and S.K. Bose	South India Journal of Social Sciences	National	UGC-CARE Listed, Bi-Annual
69	Rehabilitation Centres for Juveniles	Shweta Sharma, Kaveri Sharma	Global Scientific Journals	National	UGC Care listed
70	Conceptual and Historical background of land acquisition laws in Pre-Independence era	Sumbul Fatima	International Journal of Legal Research and Analysis	International	UGC Care listed
71	Smart Cities Development using Blockchain Technology in India: A Critical Analysis	Nitesh Rohilla, Sanjay Singh and Mohit Agarwal	CEUR Workshop Proceedings	International	Scopus
72	Microstructural and Mechanical Response of SiC and TiO ₂ Particles Reinforced Friction Stir Welded AA7075 and AA2024	Pradeep Kumar Mouria, Ranganath M. Singari & Reeta Wattal	International Journal on Interactive Design and Manufacturing	International	Scopus
73	Optimization of Electron Bunch Characteristics in Bubble Wakefield: Role of Different Linear Upward Density Ramp Profiles	Mohit Kumar, Hitendra K. Malik, Sandeep Kumar	IEEE Transactions on Plasma Science	International	Scopus

74	An Improved Hottel-Whiller-Bliss Equation for the Nth Photo-Voltaic Thermal-Thermo-Electric Cooler Air Collectors Connected in Series: Exergy Analysis	Gopal Nath Tiwari, Prashant Bhardwaj, Sujata Nayak	Journal of Renewable Energy and Environment	International	Scopus
75	Exploring the Connection among Employee Performance, Employee Retention, and Employee Engagement with in Higher Education Institutions (HEIs)	Saumya Shirina, Reema Bali, Yogita Sharma, Preeti Singh & Sunil Kadyan	Journal of Information and Optimization Sciences	International	Scopus
76	Environmental, Social, Governance (ESG) & Sustainable Finance : Emergence of New Era of Investing	Richa Bhatia, Narinder Kumar Bhasin, Sunil Kadyan & Preeti Singh	Journal of Information and Optimization Sciences	International	Scopus
77	Experimental and Quantum Chemical Investigation of Corrosion Inhibitive Action of Sertraline on Mild Steel in Acidic Medium	Rajni Narang, Priya Vashishth, Himanshi Bairagi, Rashmi Sehrawat, Sudhish Kumar Shukla & Bindu Mangla	Chemistry Africa	International	Scopus
78	Maternity Discrimination in the Workplace: A Critical Analysis of the Maternity Benefit Act in Delhi NCR	Chaitali Wadhwa & Shaharyar Asaf Khan	CPJ Law Journal	National	UGC Care Listed
79	Adsorption Study of Doxycycline to Protect the Mild Steel Surface from Sulphuric Acid Solution	Sudhish Kumar Shukla, Somya Tanwer	Progress in Color, Colorants and Coatings	International	Scopus
80	Legendre Collocation Method for New Generalized Fractional Advection-Diffusion Equation	Sandeep Kumar, Kamlesh Kumar, Rajesh K. Pandey & Yufeng Xu	International Journal of Computer Mathematics	International	Scopus
81	Do Social Media Marketing Activities Promote Customer Loyalty? A Study on the E-Commerce Industry	Rashi Banerji & Animesh Singh	LBS Journal of Management & Research	National	Peer Reviewed Journal
82	Mediating Effect of CSR on the Relationship Between Transformational Leadership and Organizational Performance in the Indian Pharmaceutical Industry	Ashish Thapa, Daleep Parimoo, Raj Kovid & Gunjan Sharma	Interdisciplinary Journal of Management Studies	International	Scopus

83	Human Rights Protection Strategies in India: A Critical Analysis of India's Approach from Legal and Policy Perspectives	Adv. Linto K.B & S.K. Bose	Acta Scientiae	International	Scopus
84	Chitosan Nanocomposite for Tissue Engineering and Regenerative medicine: A Review	Priti Gupta, Shilpa Sharma, Shaguffa Jabin, Sapana Jadoun	International Journal of Biological Macromolecules	International	Scopus
85	Optimization of Erosion Parameters of Coated SS316L using Taguchi Method	I.K.Bhat, Piyush Mahendru	International Journal on Interactive Design and Manufacturing	International	Scopus
86	Analysis of Eeg Data Using Different Techniques of Digital Signal Processing	Mohd. Maroof Siddiqui, Mohd. Suhaib Kidwai, Geetika Srivastava, K. K. Singh and Piyush Charan	Biomedical and Pharmacology Journal	National	Scopus
87	Quadrupole Interaction Induced Optical Rectification and Second Harmonic Generation in CdSe Quantum Dots	Komal Jain, Deepti Maikhuri & Anshuman Sahai	The European Physical Journal Plus	International	Scopus
88	Coordination Compounds as Corrosion Inhibitors of Metals: A Review	Ekemini D. Akpan, Ashish Kumar Singh, Hassane Lgaz, Taiwo W. Quadri, Sudhish Kumar Shukla, Bindu Mangla, Abhishek Dwivedi, Omar Dagdag, Sheetal, Etienying Edem Inyang, Eno E. Ebenso	Coordination Chemistry Reviews	International	Scopus
89	Dielectric, Magnetic and Structural Properties of Co Doped CeO2 Powders	Mayora Varshney, Aditya Sharma, Deo Prakash, K.D. Verma	Journal of Physics and Chemistry of Solids	International	Scopus
90	The Accreditation Paradigm: A Comparative Analysis of Accreditations for Management Programmes	J. Srikanth Reddy, Ritu Sharma, Narain Gupta	International Journal of Educational Management	International	Scopus
91	The Mediating Role of Organisational Learning Capabilities Between Workplace Happiness and Organisational Citizenship Behaviour	Preeti Goel, Animesh Singh	Journal of Workplace Learning	International	Scopus
92	Impact of Surface Modification of Electrode for	Sandeep Srivastava, Deepti Ahuja, Pradeep K.	Journal of Energy Storage	International	Scopus

	Aluminium Air Batteries	Varshney			
93	Educational Technology to Promote Social Entrepreneurship Education in the COVID Pandemic Era	Nibedita Hazarika, Kriti Dagar	Journal of Entrepreneurship and Innovation in Emerging Economies	International	Scopus
94	Linking Workplace Incivility with Employee Turnover Intention & Job Satisfaction : The Mediating Role of Self-Efficacy of Employees in Telecom Sector in NCR	Sunil Kadyan, Yogita Sharma, Kanika Agarwal, Rashmi Gujrati & Maharaj Krishen Koul	Journal of Information and Optimization Sciences	International	Scopus
95	Some Fixed Point Theorems Satisfying Generalized Contraction Conditions in Dislocated Quasi Metric Space	Nikita Mittal, Pawan Kumar, Zaheer Kareem Ansari, Aparna Vyas	International Journal of Nonlinear Analysis and Applications	International	-
96	English -The Most Emphasized Emerging Trend in Global Education System	Priya Sharma and Akhilesh Kumar Dwivedi	Viksit India	International	Scopus
97	Mental Well-Being of Senior Secondary School Students in Relation to Their Gender	Neha Goswami, Rashee Singh	International Journal of Cultural Studies and Social Sciences	International	-
98	Electronic Structure and Luminescence Studies of Bi Doped MgO Nanophosphors	Priyanka Bishnoi, Ashish Kumar, Ranjeet Brajpuriya, K.P.S. Parmar, Aditya Sharma, Keun Hwa Chae, Ankush Vij	Ceramics International	International	Scopus
99	Development and Simulation of Microstrip Patch Antennas for 5G Wireless Connectivity	Neeru Malik, Shruti Vashist, Ajay N. Paithane, Mukil. Algirisamy	Journal of Theoretical and Applied Information Technology	International	Scopus
100	Impact of Choline Hydroxide-Supported Magnetic Nanoparticles on Peroxidase Activity and Conformational Stability of Cytochrome c	Deepak Chahar, Indrani Jha, Jayamani Arumugam, Pannuru Venkatesu	ACS Appl Bio Materials	International	Scopus
101	Social Learning and Emotional Learning Interventions for Educators	Palakk Gupta, Tarundeep Kaur	Journal of Applied Optics	International	Scopus

102	Structural and Optical Properties of ZnGa _{2-x} (YbxCrGe) _x O ₄ (X = Ho and Er) Up-Conversion Photoluminescence Materials	Pankaj Kumar, Aditya Sharma, Priyanka Bishnoi, Ankush Vij, Sandeep Kumar, Ashima Juyal, Ranjeet Brajpuriya	Chemical Physics Letters	International	Scopus
103	Sustainable Computing in India-A Comparative Study of Power Awareness of Individual Users and Computer Professionals	Anubhuti Hajela, Shweta Goel & Subodh Saluja	Journal of Emerging Technologies and Innovative Research	National	UGC Approved Journal No 63975
104	Protection of Mild Steel from Corrosion in an Aggressive Chloride Media through Chitosan-CeO ₂ Nanocomposite: Experimental and Computational Studies	Himanshi Bairagi, Priya Vashishth, Rajni Narang, Sudhish K. Shukla & Bindu Mangla	Corrosion Communications	International	Scopus
105	Impact of Novel ZnO/PAA Nanocomposite as Corrosion Inhibitor on Mild Steel in 5% HCl	Himanshi Bairagi, Priya Vashishth, Rashmi Sehrawat, Sudhish Kumar Shukla, Bindu Mangla	Materials Chemistry and Physics	International	Scopus
106	Optimizing Software Fault Prediction using Decision tree Regression and Soft Computing Techniques	Gurmeet Kaur, Jyoti Pruthi and Parul Gandhi	International Journal of Advanced Technology and Engineering Exploration	International	Scopus
107	Optimization of Physico-Mechanical and Erosive Wear Properties of Single/Multilayer – Coated Granite Filled Aluminum Alloy Composites	Vikash Gautam , Amar Patnaik , Inder K. Bhat , Vikas Kukshal, Manoj J. Pawar and Ashiwani Kumar	International Journal of Materials Research	International	Scopus
108	Comparative Analysis of Anti-Corrosive Performance: Azure C dye vs. Alternative Azure Dyes on Mild Steel in 1 N HCl at Elevated Temperatures	Priya Vashishth, Himanshi Bairagi, Rashmi Sehrawat, Sudhish K. Shukla, Bindu Mangla	Journal of Molecular Liquids	International	Scopus
109	Study of Magnetic Field Evolution by Weibel Instability in Counter-Streaming Electron-Positron Plasma Flows	Rakesh Kumar, Hitendra K. Malik & Sandeep Kumar	Journal of Astrophysics and Astronomy	International	Scopus
110	Optimization of Physico-Mechanical and Erosive Wear Properties of Single/Multilayer–Coated Granite Filled Aluminum Alloy	Vikash Gautam , Amar Patnaik , Inder K. Bhat , Vikas Kukshal Manoj J. Pawar and Ashiwani Kumar	International Journal of Materials Research	International	Scopus

	Composites				
111	Investigation of Post Weld Heat Treatment on Mechanical Properties of Low Frequency Vibration Assisted SMAW Mild Steel Welded Joints	Rajeev Ranjan, Sanjay Kumar Jha, Pradeep Kumar Mouria & Subhash Mishra	International Journal on Interactive Design and Manufacturing	International	Scopus
112	Street Vendors and Human Rights	Sampriti Phukan & Kanu Priya	Rostrum's Law Review	International	Scopus
113	Checking Counterfeit Critiques on Commodities using Ensemble Classifiers Enhancing Information Credibility	Ram Chatterjee, Mrinal Pandey, Hardeo Kumar Thakur & Anand Gupta	Procedia Computer Science	International	Scopus
114	Variation of Surface Latent Heat Flux (SLHF) Observed during High-Magnitude Earthquakes	Pooja Sharma, Ananna Bardhan, Raj Kumari, D.K. Sharma and Ashok Kumar Sharma	Journal of Indian Geophysical Union	National	UGC Indexed No: 49066
115	Segmentation and Classification of Diabetic Retinopathy using Ensemble Deep Neural Network	Anju Mishra, Mrinal Pandey & Laxman Singh	Procedia Computer Science	International	Scopus
116	Exploring the Roots and Outcomes of Organisational Citizenship Behaviour and Its Impact on Competitive Advantage	Animesh Singh, Preeti Goel	Rostrum's Law Review	International	Scopus
117	A Bibliometric Study for Measuring the Impact of Female Customer Attitude Towards Organic Skin Care Product	Sonia Minocha & Animesh Singh	Annals of the Bhandarkar Oriental Research Institute	National	UGC-CARE Listed, I-Journal
118	Embracing Mobile Wallets: Investigating Factors Influencing Consumer Adoption	Himanshi Bhardwaj & Pooja Kapoor	Educational Administration: Theory and Practice	International	Scopus
119	HR Output on People with Disabilities: A Bibliometric Analysis	Rubal Bansal, Geetanjali Batra & Sunil K. Roy	Education and Society	National	UGC Care Listed- 1 Journal
120	ITC (Indian Tobacco Company) Hotel's Human Resource Policy for People with Disability: A Comprehensive Review	Rubal Bansal, Geetanjali Batra & Sunil K. Roy	International Journal of Applied Social Science	International	-
121	The Significance of English in Education for the Effective Development in today's Generation	Priya Sharma, Akhilesh Kumar Dwivedi	Educational Administration: Theory and Practice	International	Scopus

122	Happiness Curriculum: A Project Based Learning Approach	Tannu Ajmani, Tarun Deep Kaur	Educational Administration: Theory and Practice	International	Scopus
123	A Study of Attitude of Mcd School Teachers towards Happiness Curriculum	Tannu Ajmani, Tarundeep Kaur	Educational Administration: Theory and Practice	International	Scopus
124	Coordination Bonding and Corrosion Inhibition Characteristics of Chalcone Compounds for Metals: An Inclusive Review Based on Experimental as well as theoretical Perspectives	Rashmi Sehrawat, Priya Vashishth, Himanshi Bairagi, Sudhish K. Shukla, Harish Kumar, Gopal Ji & Bindu Mangla	Coordination Chemistry Reviews	International	Scopus
125	High Order Numerical Scheme for Generalized Fractional Diffusion Equations	Kamlesh Kumar, A. K. Pandey & Rajesh K. Pandey	International Journal of Applied and Computational Mathematics	International	Scopus
126	Impact of Transformational Leadership toward Organization Efficacy in Nigeria Petroleum Company	Adeyemi Muyiwa Atoki, Sweta Dixit, Daleep Parimoo, Princess Lovelyn Atoki & Atul Sangal	International Journal of Religion	International	Scopus
127	Convergence Estimates for Some Composition Operators	Vijay Gupta, Ruchi Gupta	Constructive Mathematical Analysis	International	Scopus
128	FeCo/PANI Composites as Electromagnetic Shields in the X-Band: An Understanding of the Loss Mechanisms	Moditma, S. Annapoorni	Materials Chemistry and Physics	International	Scopus
129	Coordination Chemistry of Chalcones and Derivatives and Their use as Corrosion Inhibitors: A Comprehensive Review	Sheetal, Ashish Kumar Singh, Valentine Chikaodili Anadebe, Manjeet Singh, Nasima Arshad, Rakesh Chandra Barik, Muhammad Anees Ur Rehman Qureshi, Taiwo W. Quadri, Ekemini D. Akpan, Lukman O. Olasunkanmi, Sudhish Kumar Shukla, Jaya Tuteja, Sanjeeve Thakur, Balaram Pani, Eno E. Ebenso	Coordination Chemistry Reviews	International	Scopus

130	Insights of Newly Synthesized Novel Pyrazole Compounds for Mild Steel Corrosion Inhibition in an Acidic Environment by Experimental and Computational Calculations	Rashmi Sehrawat, Rashmi Pundeer, Sidhant Yadav, Priya Vashishth, Himanshi Bairagi, Sudhish K. Shukla, Bindu Mangla	Journal of Molecular Structure	International	Scopus
131	Exploring Transboundary Solutions for Forensic Investigations: An Interdisciplinary Approach to Addressing Criminal Behavioral Challenges	Barkha Shree, Parmeeta Dhaliwal & Sanjay Singh	GMSARN International Journal	International	Scopus
132	Self-Focusing of a Bessel-Gaussian Laser Beam in Plasma under Density Transition	Vishal Thakur, Sandeep Kumar, and Niti Kant	Journal of Nonlinear Optical Physics and Materials	International	Scopus

3.4.2 Publication in Conferences

S.No	Title of the Paper	Authors	Conference Name	International /National Conference	Indexing (Scopus / others)
1	Predictability of Spells of Maximum Precipitation in the UP East Region with Antarctic Sea Ice Concentration Forcing	Rashi Aggarwal, Manpreet Kaur & K. C. Tripathi	International Conference on Internet of Things and Connected Technologies	International	Scopus
2	Video Steganography in IoT: Information Embedding using OpenCV and 2LSB	Urmila Pilania, Manoj Kumar, Sanjay Singh & Vivaan Mittal	2023 International Conference on Sustainable Computing and Smart Systems (ICSCSS)	International	Scopus
3	Improving Accuracy of Recommendation Systems with Deep Learning Models	Geetanjali Tyagi & Dr. Susmita Ray	International Conference on Advances in Data-driven Computing and Intelligent Systems	International	Scopus
4	Finite Element Analysis of Residual Stresses During Incremental Sheet Forming of Ti-6Al-4V Alloys Using Different Tool Path Profiles	Gianender Kajal, M. R. Tyagi & Gulshan Kumar	Biennial International Conference on Future Learning Aspects of Mechanical Engineering	International	Scopus
5	Smart Electric Vehicle (EVs) Charging Network Management Using Bidirectional GRU-AM Approaches	Mohd. Asif Gandhi, K. Priya, Dr. Piyush Charan, Ritu Sharma, G. Nageswara Rao & D. Suganthi	2023 2nd International Conference on Edge Computing and Applications (ICECAA)	International	Scopus

6	Probabilistic Scheme for Intelligent Jammer Localization for Wireless Sensor Networks	Amar Pal Yadav, Sandeep Kumar Davuluri, Piyush Charan, Ismail Keshta, Juan Carlos Orosco Gavilán & Gaurav Dhiman	International Conference on Intelligent Computing and Networking	International	Scopus
7	Student Writing Segmentation Using Various Classification Techniques	Charu Goyal, Vansh Singh Bisht, Simar Jyot Singh Narang, Dr. Manpreet Kaur & Ms. Chandni Magoo	2023 3rd International Conference on Intelligent Technologies (CONIT)	International	Scopus
8	Contactless Measurement of Error in Lathe Tool Positioning	Shweta Kumari, Dr. Charu Pathak, Dr. Shruti Vashist & Prasant Kumar Mahapatra	2023 3rd International Conference on Intelligent Technologies (CONIT)	International	Scopus
9	Enhancing the Channel Quality in Cognitive network by Traffic Reduction Method	Sanjay Singh, Urmila Pilonia, Manoj Kumar, Satya Prakash Awasthi & Leema Nelson	2023 3rd International Conference on Intelligent Technologies (CONIT)	International	Scopus
10	Image Processing Based Skin Cancer Recognition using Machine Learning	Dr. Sanjay Singh, Dr. Urmila Pilonia, Dr. Manoj Kumar & Satya Prakash Awasthi	2023 3rd International Conference on Intelligent Technologies (CONIT)	International	Scopus
11	Integrating Technology for Sustainable Agriculture: Enhancing Crop Productivity while Minimising Pesticide Usage using Image Processing & IoT	Gandham Sandhya, Dr. Piyush Charan, Heena Farheen Ansari, Mathur Nadarajan Kathiravan, D. Suganthi & Neerav Nishant	2023 4th International Conference on Electronics and Sustainable Communication Systems (ICESC)	International	Scopus
12	Intrusion Detection in Wireless Sensor Networks using Hybrid Deep Belief Networks and Harris Hawks Optimizer	Vikas, Ramesh Pandharinath Daund, Davinder Kumar, Piyush Charan, Ravi Shireesh Kumar Ingilela & Ravi Rastogi	2023 4th International Conference on Electronics and Sustainable Communication Systems (ICESC)	International	Scopus
13	A Proposed Architecture for Quality based Decision Making Approach for Software Re-engineering	Nikhil Govil, Nidhi Sharma, Deepti Thakral, Shalini Garg, Rinku Dixit & Shailee Lohmor Chaoudhary	2023 4th International Conference on Electronics and Sustainable Communication Systems (ICESC)	International	Scopus
14	Steganography Tools and Their Analysis Concerning Distortion in Stego Image	Dr. Urmila Pilonia, Rohit Tanwar & Keshav Kaushik	International Conference on Advances in Data Science and Computing	International	Scopus

			Technologies		
15	Exponential Aquila Optimizer (EAO)-Based Deep Fuzzy Clustering for Document Retrieval	Ms. Gunjan Chandwani & Anil Ahlawat	International Conference on Communication and Computational Technologies (ICCCT-2023)	International	Scopus
16	Effect of NiO Hole Transport Layer Thickness on the Power Conversion Efficiency of Perovskite Solar Cell: A Numerical Simulation Study	Saumya Vaish & Shiv Kumar Dixit	International Conference on Nanotechnology; Opportunities and Challenges	International	Scopus
17	Review of Machine Learning Techniques for Crop Recommendation	Liza Kansal, Anoushka Pandey, Sanidhya Madhav Shukla & Parmeeta Dhaliwal	2023 Fifteenth International Conference on Contemporary Computing	International	Scopus
18	Unleashing the Power of Machine Learning: Revolutionizing Early Diagnosis and Prevention of Mental Health Disorder	Chhavi Baliyan, Rajesh Dhumal, Ruchi Gupta	2023 IEEE International Conference on Artificial Intelligence in Engineering and Technology (IICAIET)	International	-
19	Modal and Static Analysis of Vortex Bladeless Wind Turbines with Different Geometries	Anshul Tripathi, Sahil Thakur & Tushar Aggarwal	15th International Conference on Materials Processing and Characterization (ICMPC 2023)	International	Scopus
20	Incorporating Sustainability: A Comprehensive Review of Factors Influencing Consumer Acceptance of Mobile Wallets	Himanshi Bhardwaj, Pooja Kapoor, Avnish Kumar, N.V. Ganapathi and Bhukya Madhu	15th International Conference on Materials Processing and Characterization (ICMPC 2023)	International	Scopus
21	An Analysis of Work-Family Conflict Resolution in the IT Industry for Employee Sustainability	Neha, Yogita Sharma, Shweta Awasthi, Shailendra Tiwari, G. Karuna & Surendra Tripathi	15th International Conference on Materials Processing and Characterization (ICMPC 2023)	International	Scopus
22	Sustainability and Role Conflict: A Bibliometric Analysis of Research Themes, Trends, and Future Research Directions: 2013-2022	Neha, Yogita Sharma, Anshu Yadav, Ramnarayan & G. Swapna	15th International Conference on Materials Processing and Characterization (ICMPC 2023)	International	Scopus

23	Sustainability in Electric Vehicles: A Bibliometric Analysis of Life Cycle Assessment	Vinay Kumar, Yogita Sharma, Priyanka Chadha, Saurav Dixit, Praveen Jugge & Phaneendra Babu Bobba	15th International Conference on Materials Processing and Characterization (ICMPC 2023)	International	Scopus
24	Agriculture Chatbot(AGRIBOT) Using Natural Language Processing	Chenchupalli Chathurya, Diksha Sachdeva & Mamta Arora	2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT)	International	Scopus
25	Adaptive Mental Health and Mood Uplifting Chatbot	Taha Siddiqui, Arun Sharma & Mamta Arora	2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT)	International	Scopus
26	Design and Development of an Intelligent Number Plate Identification system Utilizing Raspberry Pi Technology	Dr. Manoj Kumar, Dr. Urmila Pilonia & Vivaan Mittal	2023 International Conference on Self Sustainable Artificial Intelligence Systems (ICSSAS)	International	Scopus
27	Hand Gesture Recognition in Indian Sign Language using Deep Learning	Harsh Kumar Vashisth, Tuhin Tarafder, Rehan Aziz, Mamta Arora & Alpna	International Conference on Recent Advances in Science & Engineering	International	Scopus
28	LSTM-Based Approach for Android Malware Detection	Manoj Kumar, Sanjay Singh, Urmila Pilonia, Gaurav Arora, Mayank Jain	3rd International Conference on Evolutionary Computing and Mobile Sustainable Networks (ICECMSN 2023)	International	Scopus
29	AI-Based Integrated Approach for the Development of Intelligent Document Management System (IDMS)	Mrinal Pandey, Mamta Arora, Shraddha Arora, Charu Goyal, Varun Kumar Gera, Harsh Yadav	3rd International Conference on Evolutionary Computing and Mobile Sustainable Networks (ICECMSN 2023)	International	Scopus
30	Enhancing Virtual Machine Migration in Cloud Environments	Chaitanya Handa, Surbhi Wadhawan, Akash Manocha & Shalu Singh	1st DMIHER International Conference on Artificial Intelligence in Education and Industry 4.0 (IDICAIEI)	International	Scopus
31	Leveraging Convolutional Neural Networks for Improved Drug Identification	Urmila Pilonia, Manoj Kumar & Sanjay Singh	2023 6th International Conference on Contemporary Computing and Informatics (IC3I)	International	Scopus
32	A Deep Ensemble Learning Network-based Approach to Detect Neurodegenerative Diseases	Urmila Pilonia, Manoj Kumar, Sanjay Singh & Prateek Adhalkha	2nd International Conference on Automation, Computing and Renewable Systems, ICACRS 2023	International	

33	A Machine Learning Approach for Moderating Toxic Hinglish Comments of YouTube Videos	Akash Singh, Kumar Vaibhav & Mamta Arora	International Conference on Data Science and Applications (ICDSA 2023)	International	Scopus
34	IoB-Based Intelligent Healthcare System for Disease Diagnosis in Humans	Shalu, Neha Saini, Pooja & Dinesh Singh	International Conference on Data Analytics & Management (ICDAM-2023)	International	Scopus
35	A Synthesized K-Fold Approach for Detecting DDoS attack Using Machine Learning Solutions	Hemant Kumar Saini, Anu Priya Sharma & Gurleen Kaur	2023 International Conference on Integrated Intelligence and Communication Systems (ICIICS)	International	Scopus
36	An Analysis of Machine Learning Techniques for Predicting and Evaluating the Popularity of Online News Articles	Urmila Pilonia & Manoj Kumar	2023 3rd International Conference on Advancement in Electronics & Communication Engineering (AECE)	International	Scopus
37	AI Framework for Detection of Hypertensive Retinopathy from Fundus Images	Mrinal Pandey, Mamta Arora, Manya Sinha, Shivank Solanki, Sudeep Batra & Abhishek Tewatia	10th IEEE UP Section International Conference On Electrical, Electronics and Computer Engineering	International	Scopus
38	An Experimental Approach Pertaining to Transfer Learning Models for Classification of Diabetic Retinopathy	Harsh Yadav, Chirag Garg, Mayank, Sahil Negi & Mrindal Pandey	10th IEEE UP Section International Conference On Electrical, Electronics and Computer Engineering	International	Scopus
39	Multi-Level Otsu Thresholding and Morphological Operations for Fundus Image Segmentation for Diabetic Retinopathy Identification	Anju Mishra, Mrinal Pandey and Laxman Singh	10th IEEE UP Section International Conference on Electrical, Electronics and Computer Engineering	International	Scopus
40	Bone Fracture Segmentation Using Cascaded Convolutional Neural Networks	Ruchi Mittal, Varun Malik, Manoj Kumar, Prateek Chaturvedi, A L N Rao & Akhilesh Kumar Khan	2023 10th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON)	International	Scopus
41	A Comparative Review of Convolutional Neural Networks, Long Short-Term Memory, and Recurrent Neural Networks in Recommendation Systems	Geetanjali Tyagi & Dr. Susmita Ray	International Conference on Artificial Intelligence: Theory and Applications (AITA 2023)	International	Scopus

42	Brain Tumor Detection Using Machine Learning Hybrid Approach	Dr. Gaganjot Kaur, Dr. Neelu Chaudhary	2023 10th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON)	International	Scopus
43	Convolutional Neural Network and Recursive Feature Elimination Based Model for the Diagnosis of Mild Cognitive Impairments	Harsh Bhasin, Abheer Mehrotra & Ansh Ohri	International Conference on Soft Computing and Signal Processing (ICSCSP 2023)	International	Scopus
44	Diabetic Type II Prediction Using Fused Machine Learning	Satya Prakash Awasthi, Dr. Sanjay Singh, Dr. Manoj Kumar, Dr. Urmila Pilonia & Shirish Mohan Dubey	2023 10th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON)	International	Scopus
45	Enhancing Biometric Performance Through Mitigation of Sleep-Related Breaches	Dr. Urmila Pilonia, Dr. Manoj Kumar, Dr. Sanjay Singh, Yash Madaan, Granth Aggarwal & Vaibhav Aggarwal	International Conference on Emergent Converging Technologies and Biomedical Systems	International	Scopus
46	Predicting Mobile Phone Prices with Machine Learning	Dr. Manoj Kumar, Dr. Urmila Pilonia & Chirag Varshney	3rd International Conference on Advancement in Electronics & Communication Engineering (AECE 2023)	International	Scopus
47	Cloud-Powered Personalization: An Advanced Recommendation System for E-Commerce Sites	Anu Priya Sharma, Gurleen Kaur, Hemant Kumar Saini & Rahul Bhandari	2023 4th International Conference on Computation, Automation and Knowledge Management (ICCAKM)	International	Scopus
48	Machine Learning-Based Rainfall Prediction on Indian Agriculture Land	Priya Bhatnagar & Alpana	2023 IEEE International Conference on ICT in Business Industry & Government (ICTBIG)	International	Scopus
49	Mild Cognitive Impairment Diagnosis Using Neuropsychological Tests and Agile Machine Learning	Harsh Bhasin, Ansh Ohri, Nishant Kumar, Manish Sharma & Dr. Hardeo Kumar Thakur	13th International Advanced Computing Conference	International	Scopus
50	Automated Tool for Toxic Comments Identification on Live Streaming YouTube	Tuhin Tarafder, Harsh Kumar Vashisth & Mamta Arora	International Conference on Machine Intelligence for Research and Innovations	International	Scopus

51	ENCRYPTO: A Reliable and Efficient Mobile App for Password Management	Urmila Pilania, Manoj Kumar, Saurav Kumar Srivastava, Bhavika Dhingra, Lalit Adhana & Riya Gaur	International Conference on Recent Developments in Cyber Security	International	Scopus
52	Attention Unveiled: Revolutionizing Image Captioning through Visual Attention	Teja Kolla, Harsh Kumar Vashisth & Dr. Manpreet Kaur	2023 Global Conference on Information Technologies and Communications (GCITC)	International	Scopus
53	Impact of COVID-19 on People	Neha Nandal, Rohit Tanwar, Meduri Saketh & Dr. Urmila Pilania	Forth International Conference on Mobile Radio Communications and 5G Networks (MRCN 2023)	International	Scopus
54	Exploring the Effects of Block Chain-Based Security Systems on Cyber Security	Reeta Mishra, Kapil Kumar, Shruti Nagpal Mehta & Dr. Neelu Chadhuary	2nd IEEE International Conference on Disruptive Technologies (ICDT-2024)	International	Scopus
55	An Energy Efficient Naïve Bayes-based Clustering Protocol for Wireless Sensor Network	Davinder Paul Singh, Dr. Piyush Charan, Divij Pasrija, Dhananjay Singh Shyamal, K. Suresh, Veeraraghavan Vishnu Priya	IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation	International	Scopus
56	Machine Learning: A Boon for Medical Appliances	Dr. Gaganjot Kaur, Dr. Neelu Chaudhary	2nd IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation (IATMSI)	International	Scopus
57	Exploratory Data Analysis in Engineering Admission Prediction for Indian Universities	Meenakshi Gupta, Alpana	2024 11th International Conference on Computing for Sustainable Global Development (INDIACom)	International	Scopus
58	Uncovering the Applicability of Machine Learning in Genomic Disease Prediction	Drishti Kemni, Charu Goyal, Avanya Chaudhary, Saksham Sharma, Alpana & Dr. Mrinal Pandey	2nd IEEE International Conference on Disruptive Technologies (ICDT-2024)	International	Scopus
59	Crop Yield Prediction Using AI: A Review	Mukulit Goel, Dr. Mrinal Pandey	2024 2nd International Conference on Disruptive Technologies (ICDT)	International	Scopus

60	Checking Counterfeit Critiques on Commodities using Ensemble Classifiers Enhancing Information Credibility	Ram Chatterjee, Dr. Mrinal Pandey, Dr. Hardeo Kumar Thakur & Anand Gupta	5th International Conference on Innovative Data Communication Technologies and Application (ICIDCA 2024)	International	Scopus
61	Segmentation and Classification of Diabetic Retinopathy using Ensemble Deep Neural Network	Anju Mishra, Mrinal Pandey & Laxman Singh	5th International Conference on Innovative Data Communication Technologies and Application (ICIDCA 2024)	International	Scopus
62	Optimizing Robotic Arm Efficiency: Synergizing Aerodynamics with Arduino Control for Enhanced Six Degrees of Freedom	Akshay Mohan, Mohan Kumar Akurathi, Priyanka Vashisht & Aman Jatain	2nd International Conference on Modern Research in Aerospace Engineering	International	Scopus
63	Spectral Segmentation Augmented with Normalized Cuts for Detection of Early Blight Disease in Potato	Deepkiran, Laxman Singh, Dr. Mrinal Pandey & Dr. Sachin Lakra	5th International Conference on Innovative Data Communication Technologies and Application (ICIDCA 2024)	International	Scopus
64	YOLOv5x-based Brain Tumor Detection for Healthcare Applications	Dr. Manoj Kumar, Dr. Urmila Pilania, Stuti Thakur & Tanisha Bhayana	5th International Conference on Innovative Data Communication Technologies and Application (ICIDCA 2024)	International	Scopus
65	Exploring the Effects of Block Chain-Based Security Systems on Cyber Security	Reeta Mishra, Kapil Kumar, Shruti Nagpal Mehta & Dr. Neelu Chadhuary	2024 2nd International Conference on Disruptive Technologies (ICDT)	International	Scopus

3.3.3 Book Chapters/Books Published

S.No	Name of Author	Dept	Title of Book Chapter/Book	Published as (Book Chapter/Book)	Name of Publisher
1	Meenal Raman, Arvinder Kaur	Management & Commerce	Scope of Skill Development under NEP 2020 in School Education : A Pilot Study	Book chapter in Book: NEP 2020 Revamping Indian Educational Holistic Development	Bookman
2	Jitendra Pal Singh, Shakti Shankar Acharya, Sudhanshu Kumar & Shiv Kumar Dixit	Ramanujan Fellow/ Science-Physics	Sol-Gel Method - Recent Advances	Book	IntechOpen

3	Ashish Xavier Das, Mohammad Mushaib, Piyush Charan & Ravi Rastogi	ECE	A Text Book of Wireless Sensor Network	Book	RK Publications
4	Bharti Kaushik, Sharv Datt Anand	Education & Humanities	Equitable and Inclusive Learning Spaces in Higher Education (India): Exploring the ICT Solutions	Book Chapter	IGI Global
5	S.K. Bose	Law	Emerging Trends of Comparative Constitutional Law	Book	Mind Your Law
6	S.K. Bose	Law	A Comparative Analysis of the Legislative Management System in the USA and the UK	Book Chapter in Book:Emerging Trends of Comparative Constitutional Law	Mind Your Law
7	Anshul Tripathi, Sahil Thakur & Tushar Aggarwal	Mechanical	Hip Joint Prosthesis Using SiC CMC and Ti-6Al-4V Materials	Book Chapter in Book:Materials for Biomedical Simulation Design, Development and Characterization	Springer Nature, Singapore
8	Gunjan Chandwani, Sarika Narender, Meena Chaudhary	CST	Design and Comparative Analysis of Inverted Indexing of Text Documents	Book Chapter in Book Computational Intelligence in Analytics and Information Systems	Apple Academic Press
9	Parneeta Dhaliwal, Manpreet Kaur, Hardeo Kumar Thakur, Rajeev Kumar Arya, Joan Lu	CST	Computational Intelligence in Analytics and Information Systems	Book	Apple Academic Press
10	Hanu Bhardwaj, Jyoti Pruthi	CST	Proposed Model for Data Warehouse Requirement Engineering	Book Chapter in Book Computational Intelligence in Analytics and Information Systems	Apple Academic Press
11	Dr. Geeta R Thakur Dr. Latha Venkataraman	Education & Humanities	Let's make Learning Meaningful: Use Instructional Material	Book	Kindle Edition
12	Yogita Sharma, Animesh Singh & Chand Prakash	Management & Commerce	Business Innovation, Transformation, Sustainability	Book	Bharti Publications, New Delhi
13	S.K. Bose	Law	International Criminal Law A Tool Kit for Law Students	Book	Mind Your Law
14	Prateek Jain, Abhishek Saxena, Nitasha Soni & Krishan	CST	Artificial Intelligence (AI) for Everyone	Book	Book Rivers
15	S.K. Bose	Law	A Handbook On Comparative Public law	Book	Mind Your Law

16	C. Senthil Kumar , A. R. Arunarani , Piyush Charan and Sanjeev Kumar Angadi	ECE	Exploring the Potential of Artificial Intelligence for Automated Sentiment	Book Chapter in Book: Toward Artificial General Intelligence	De Gruyter
17	S.K. Bose	Law	The Abstract Blueprint Crafting Research Paper Summaries	Book	Mind Your Law
18	Shweta Goel	Manageme nt & Commerce	Accessibility of Digital Payments Methods and Challenges Faced by Users in Rural Areas of NCR	Book Chaper in Book:The Abstract Blueprint Crafting Research Paper Summaries	Mind Your Law
19	Animesh Singh	Manageme nt & Commerce	Artificial Intelligence and Its Impact on Management Practices	Book Chaper in Book:The Abstract Blueprint Crafting Research Paper Summaries	Mind Your Law
20	Kanu Priya	Law	Women Migrant Workers as an Instrument for the Growth of Indian Economy	Book Chaper in Book:The Abstract Blueprint Crafting Research Paper Summaries	Mind Your Law
21	Asmita Patel	Law	Vital Role of Right to Health during Public Health Emergencies: Critical Study of Indian Legal Mechanism	Book Chaper in Book:The Abstract Blueprint Crafting Research Paper Summaries	Mind Your Law
22	Sakshi & Rashi Banerji	Manageme nt & Commerce	A Systematic Literature Review on Factors Affecting Mobile Wallet Adoption and Future Research Direction	Book Chaper in Book:The Abstract Blueprint Crafting Research Paper Summaries	Mind Your Law
23	Vandna Zutsi Bhat	Manageme nt & Commerce	Transforming Labor: Analyzing the Impact of Artificial Intelligence on Non-Technical Occupations	Book Chaper in Book:The Abstract Blueprint Crafting Research Paper Summaries	Mind Your Law
24	Vani Kataria	Law	The Intersection of Artificial Intelligence and Cyber Forensic Law	Book Chaper in Book:The Abstract Blueprint Crafting Research Paper Summaries	Mind Your Law
25	R.K. Sanayaima Singh	Law	The Free Movement Regime Between India and Myanmar: Implications for India	Book Chaper in Book:The Abstract Blueprint Crafting Research Paper Summaries	Mind Your Law
26	S.K. Bose	Law	Reproductive Rights of Women: International Human Rights Perspectives	Book Chaper in Book:The Abstract Blueprint Crafting Research Paper Summaries	Mind Your Law

27	Amit Kumar	Law	Leveraging Artificial Intelligence for Geographical Indication Protection and Enhancement: A Comprehensive Analysis	Book Chapter in Book: The Abstract Blueprint Crafting Research Paper Summaries	Mind Your Law
28	Hitika Singh	Law	The Legal Anatomy of Cryptocurrency Regulation in India	Book Chapter in Book: The Abstract Blueprint Crafting Research Paper Summaries	Mind Your Law
29	S.K. Bose	Law	Uniform Civil Code: Political Expediency Vis-a Vis Jurisprudential Considerations	Book Chapter in Book: The Abstract Blueprint Crafting Research Paper Summaries	Mind Your Law
30	Chaitali Wadhwa & Shaharyar Asaf Khan	Law	Deconstructing the Fair and Equitable Treatment in Bilateral Investment Treaties	Book Chapter in International Conference on Trade and Investment Laws Emerging Legal and Economic Perspectives	Satyam Books
31	S.K. Bose	Law	The Economic Aspects of Competition Law: Lawyers' Conundrum	Book Chapter in International Conference on Trade and Investment Laws Emerging Legal and Economic Perspectives	Satyam Books
32	S.K. Bose	Law	Research Methods & Legal Writing A Handbook for LLM & Ph.D Scholars	Book	Mind Your Law
33	S.K. Bose	Law	Introduction to Research-Meaning and Nature	Book Chapter in Book: Research Methods & Legal Writing A Handbook for LLM & Ph.D Scholars	Mind Your Law
34	S.K. Bose	Law	Objectives and Scope of Legal Research	Book Chapter in Book: Research Methods & Legal Writing A Handbook for LLM & Ph.D Scholars	Mind Your Law
35	S.K. Bose	Law	Use of Definition, Maxims, Doctrines, Concepts and Principles in Legal Research	Book Chapter in Book: Research Methods & Legal Writing A Handbook for LLM & Ph.D Scholars	Mind Your Law

36	Animesh Singh	Management & Commerce	Reliability & Validity of Data and Propositions	Book Chapter in Book: Research Methods & Legal Writing A Handbook for LLM & Ph.D Scholars	Mind Your Law
37	Animesh Singh	Management & Commerce	Data Cleaning	Book Chapter in Book: Research Methods & Legal Writing A Handbook for LLM & Ph.D Scholars	Mind Your Law
38	Rashi Banerji	Management & Commerce	Research Design	Book Chapter in Book: Research Methods & Legal Writing A Handbook for LLM & Ph.D Scholars	Mind Your Law
39	Goldie Gabrani	CST	Revolutionizing Healthcare Impact of Artificial Intelligence in Disease Diagnosis, Treatment, and Patient Care	Book Chapter in Book: Handbook on Augmenting Telehealth Services	CRC Press
40	Rashi Banerji	Management & Commerce	Sampling	Book Chapter in Book: Research Methods & Legal Writing A Handbook for LLM & Ph.D Scholars	Mind Your Law
41	Priyanka Chadha, Rajat Gera, G.S. Khera, Mona Sharma	Management & Commerce	Challenges of Artificial Intelligence Adoption for Financial Inclusion	Book Chapter in Book: Artificial Intelligence, Fintech, and Financial Inclusion	CRC Press, Boca Raton
42	Ankita Gaur and Aniket S. Deshpande	Sciences- Mathematics	Cryptography and Network Security	Book	Taran Publication, New Delhi
43	Dinesh Kumar Sharma, Ramesh Chand, Anju Garg Raj Kumari	Sciences- Physics	The Lightning Discharge	Book	Scientica Research Pharmakon Private Limited
44	Priya Vashishth, Himanshi Bairagi, Rashmi, Rajni Narang, Bindu Mangla, Sudhish K. Shukla	Sciences- Chemistry	Phytochemicals as Corrosion Inhibitors for Different Metals in Acidic Medium	Book Chapter in Book: Phytochemistry in Corrosion Science	CRC Press
45	Dr. Deepti Meena, Roja Agnihotri, Navjot Kaur, Simran Bhardwaj	Law	A Comprehensive Guide to Indian Constitutional Law	Book	Book Rivers

46	Arpit Sand & Jaya Tuteja	Sciences-Chemistry	Polyethylene-New Developments and Applications	Book	IntechOpen
47	Sunil Kadyan, Yogita Sharma, Atul Kumar Agnihotri, Veer Bhadra Pratap Singh, Rakshit Kothari, Fateh Bahadur Kunwar	Management & Commerce	Human-Centric AI Applications for Remote Patient Monitoring	Book Chapter	IGI Global
48	S.S. Nanda, Jitendra Pal Singh, Sanjeev Gautam, Dong Kee Yi	Ramanujan Fellow	Calcium-Based Materials Processing, Characterization, and Applications	Book	CRC Press
49	S.S. Nanda, Jitendra Pal Singh, Sanjeev Gautam, Dong Kee Yi	Ramanujan Fellow	Advanced Synthesis and Medical Applications of Calcium Phosphates	Book	CRC Press
50	Kaveri Sharma & Inderpreet Kaur Saggu	Law	Artificial Intelligence Robotics and Law	Edited Book	Central Law Publications

3.3.4. Patents (Filed/ Published / Granted/Registration of Design)

S.No.	Name of Faculty	Dept.	Title of the Patent	Patent Number (National/International)	Patents(Filed/ Published/Granted/ Registration for Design)
1	Dr. Abhishek Saxena et al.	CST	Intelligent Pesticide Application System for Sustainable Agriculture using Machine Learning	202411012993	Filed
2	Harsha Devnani et al.	Sciences-Chemistry	A Liquid Fuel For Combustion Appliances	202411024326	Filed
3	Harsha Devnani et al.	Sciences-Chemistry	A Method and Composition for Green Synthesis of Iron Nanoparticles	202411026388	Filed
4	Dr. Shruti Vashist et al.	ECE	Microstrip Patch Antenna	419111-001	Filed
5	Dr. Charu Pathak, Dr. Piyush Charan & Dr. Joginder Singh	ECE/Mechanical	IoT Driven Sensor Network Alert System for Detection of Hydrogen Gas Leakage in Distribution Pipelines	202411012993	Published
6	Dr. Dinesh Kumar Sharma	Sciences-Physics	An Enhanced Multi-Beam Interference Utilizing Modified Lens System	202411024326	Published

7	Dr. Dinesh Kumar Sharma	Science s-Physics	A Lightning Protection System for Rooftop Solar PV Panels	202411026388	Published
8	Dr. Nitika	ECE	Verification of Dynamic Signature Using AI	419111-001	Published
9	Dr. Dinesh Kumar Sharma	Science s-Physics	Erosion Protection System for Solar PV Panels	202311072581	Published
10	Dr. Mrinal Pandey & Dr. Mamta Arora	CST	IOT Based Assistive Wearable Low Vision Enhancement Device for Blindness and Vision Impairment	202411001594	Published
11	Dr. Kaveri Sharma & Dr. Shaharyar Asaf Khan	Law	A Novel Method for Real-Time Autonomous Vehicle Traffic Management	202411006416 A	Published
12	Dr. Mrinal Pandey & Dr. Mamta Arora	CST	A Medical Insurance Claim Settlement Using Blockchain Technology	202411005445	Published
13	Dr. Ajit & Gianender Kajal	Mechanical	A Smart Mechanical-Electronic Interface for Real-Time Monitoring and Control in Manufacturing Processes	202411016259	Published
14	Pradeep K. Varshney & Harsha Devnani	Science s-Chemistry	A Method for Mitigating Corrosion Properties of Electrodes in Secondary Energy Storage Batteries	202211060626	Published
15	Tanushri Purohit	Management & Commerce	Positron Emission Tomography Functional Magnetic Resonance Imaging Machine for Mental Health	U.K Design Patent 6296627	Registration of Design
16	Piyush Charan	ECE	Glucose Monitoring Device	U.K Design Patent 6304629	Registration of Design
17	Tanushri Purohit, Pooja Kapoor, Neeraj Chopra	Management & Commerce	Device for Tracking the Employee Behaviour Based on Machine Learning	Indian Design Patent 390248-001	Registration of Design
18	Dr. Piyush Charan	ECE	Portable Environment Data Monitoring Box	Indian Design Patent 390497-001	Registration of Design
19	Dr. Shalu Singh	CST	AI Based Driver Drowsiness Detecting Device	U.K. Design Patent 6307260	Registration of Design
20	Dr. Shalu Singh & Dr. Deepti Thakral	CST	Soil Moisture Level Indicator	U.K. Design Patent 6305737	Registration of Design

21	Dr. Shalu Singh	CST	Robot for Air Conditioner Duct Cleaning	U.K. Design Patent 6304988	Registration of Design
22	Dr. Shalu Singh	CST	Machine Learning Based Stress Detection Device	U.K. Design Patent 6306508	Registration of Design
23	Dr. Piyush Charan	ECE	Pen with Calculator	Indian Design Patent 390493-001	Registration of Design
24	Dr. Ranjna Jain, Dr. Neelu Chaudhary & Dr. Abhishek Saxena	CST	Smart Device For Mental Health Assessment	U.K. Design Patent 6326173	Registration of Design
25	Dr. Piyush Charan	ECE	Uranium Purification Device For Water	Indian Design Patent 387202-001	Registration of Design
26	Dr. Shalu Singh	CST	Multi-Sensor Real-Time Sorting Modular Robot	U.K. Design Patent 6304989	Registration of Design
27	Pooja Kapoor	Management & Commerce	Machine Learning Based Health Monitoring Wearable Device	Indian Design Patent 396982-001	Registration of Design
28	Priyanka Chadha	Management & Commerce	Foldable Desk cum Laptop Cooling Pad	Indian Design Patent 362657-001	Design Patent Published
29	Dr. Mamta Arora & Dr. Mrinal Pandey	CST	IOT Based Automatic Biochemistry Analyzer	Indian Design Patent 400031-001	Registration of Design
30	Dr. Piyush Charan, Anshuman Sahai, Somya Asthana, Deepti Maikhuri, Joginder Singh & Moditma	ECE/Sciences-Physics/Mechanical	Seat Belt with Heart Rate Recognition for Ignition of Vehicle	Indian Design Patent 398635-001	Registration of Design
31	Dr. Abhishek Saxena	CST	Worker Reassurance Monitoring Instrument	U.K. Design Patent 6332622	Registration of Design
32	Pradeep Kumar Mouria & Yogita Sharma	Mechanical/Management & Commerce	Safety Glasses with Earbuds for Workers	Indian Design Patent 370592-001	Registration of Design
33	Arushi Malik Mehta & Chaitali Wadhwa	Law	IOT Based Solar Power Agriculture Robot	Indian Design Patent 407620-001	Registration of Design
34	Dr. Kaveri Sharma	Law	Artificial Intelligence Based Humanoid Robot for Security	Indian Design Patent 408134-001	Registration of Design

35	Dr. Piyush Charan	ECE	A Cloud Computing Based Digital Forensic Investigation System Implemented with Machine Learning Configurations	202024102105	Granted (German)
36	Dr. Piyush Charan	ECE	Smart Brain Monitoring Headset	U.K. Design Patent 6370003	Registration of Design
37	Priyanka Chadha	Management & Commerce	Safety Wrist Band	Indian Design Patent 361993-001	Published

3.3.5 Industry Sponsored Projects

S.No	Faculty Name	Department	Name of Projects	Sanctioned Amount (in Rs.)	Sponsored By
1	Dr. Vinayak V. Pathak (PI) Dr. Sangita Banga (Co-PI)	Sciences-Chemistry	Development of Sustainable Algal Cultivation System for Integrated Wastewater Treatment CO2 Removal and Bioenergy Production	165,000	M/s Sandiya Exports Private Limited
2	Dr. Nibedita Hazarika (PI) Mr. Sharv Datt Anand Ms. Kriti Daggar Dr. Rashee Singh (Co-PI)	Education & Humanities	Capacity Building for Persons with Disability in Delhi NCR	112,000	M/s Sandiya Exports Private Limited
3	Dr. Mira Mishra (PI) Dr. Arvinder Kaur (Co-PI)	Education & Humanities	Revitalizing the Mentor-Mentee Relationship: An Analysis of the Mentor-Mentee Program at Manav Rachna University, Faridabad	45,000	M/s Sandiya Exports Private Limited
4	Dr. Parneeta Dhaliwal (PI) Dr. Ankita Gupta (Co-PI)	CST	Novel Techniques for Prediction of Fungal Diseases in Oil Seeds	250,000	M/s Sandiya Exports Private Limited
5	Dr. Rashi Banerjee (PI) Dr. Animesh Singh (Co-PI)	Management & Commerce	Happiness at Work, Workplace Spirituality, and Organization Citizenship Behaviour in MRU	223,000	M/s Sandiya Exports Private Limited

6	Dr. Kaveri Sharma (PI) Dr. Shaharyar Asaf Khan, Ms. Chaitali Wadhwa (Co-PI)	Law	Constitutional and Conjugal Rights of Jail Inmates in India with special reference to Delhi NCR	145,000	M/s Sandiya Exports Private Limited
7	Ms. Smriti Mishra (PI) Dr. J.P. Sharma (Co-PI)	Mechanical	Fabrication of Metal Composite and Foam by Friction Stir Processing & Optimization of its Process Parameters	200,000	M/s Sandiya Exports Private Limited
8	Mr. Vijay Kumar Gill (PI) Mr. Bhanu Pratap Chaudhary (Co-PI)	ECE	IoT for Enhanced Environmental Monitoring	210,000	M/s Sandiya Exports Private Limited
9	Ms. Sampriya Phukan (PI) Dr. Kanu Priya (Co-PI)	Law	Women Street Vendors: Economic Contribution	100,000	M/s Sandiya Exports Private Limited

3.4 Manav Rachna University - Center of Excellence

A Center of Excellence (CoE) typically focuses on promoting best practices, innovation, and collaboration within a specific domain. Here's a list of activities commonly performed in a CoE:

➤ Research and Development

1. **Pilot Projects:** Conducting small-scale projects to test new ideas or technologies.
2. **Case Studies:** Analyzing successful implementations to derive best practices.

➤ Training and Skill Development

3. **Workshops and Seminars:** Organizing sessions to enhance knowledge and skills in specific areas.
4. **Certification Programs:** Offering formal training and certification in specialized fields.

➤ Knowledge Sharing

5. **Webinars and Online Courses:** Hosting virtual sessions to disseminate knowledge and expertise.

6. **Knowledge Repositories:** Creating and maintaining databases of best practices, templates, and resources.

➤ **Innovation and Collaboration**

7. **Innovation Challenges:** Organizing competitions to generate new ideas and solutions.

8. **Cross-Departmental Collaboration:** Facilitating partnerships between different teams to leverage diverse expertise.

➤ **Quality Assurance and Governance**

9. **Process Standardization:** Developing and implementing standard operating procedures (SOPs).

10. **Performance Metrics:** Establishing KPIs to measure the success of initiatives and projects.

➤ **Community Building**

11. **Networking Events:** Organizing meetups and conferences to foster connections among professionals.

12. **Mentorship Programs:** Pairing experienced professionals with newcomers for guidance and support.

➤ **Evaluation and Feedback**

13. **Surveys and Assessments:** Gathering feedback to assess the effectiveness of programs and initiatives.

14. **Continuous Improvement Initiatives:** Regularly reviewing and refining processes and practices.

➤ **External Engagement**

15. **Partnerships with Academia:** Collaborating with universities for research and innovation.

16. **Industry Forums and Panels:** Participating in discussions to share insights and trends with external stakeholders.

These activities help a Center of Excellence drive innovation, enhance skills, and promote best practices within its focus area.

3.4.1 Research Cluster Club (RCC)

The University's RCC club is constantly working to enlighten the young minds. The Research Club in a university serves several important roles:

1. **Fostering Collaboration:** It provides a platform for students and faculty to collaborate on research projects, encouraging interdisciplinary work and sharing of ideas.
2. **Skill Development:** Members can enhance their research skills, including data analysis, literature review, and critical thinking, through workshops and training sessions.
3. **Networking Opportunities:** The club connects students with researchers, industry professionals, and alumni, facilitating valuable relationships and mentorship.
4. **Promoting Research Culture:** It encourages a culture of inquiry and innovation within the university, motivating students to engage in research activities.
5. **Showcasing Work:** The club often organizes events like conferences, seminars, or poster presentations, allowing members to showcase their research findings.
6. **Funding and Grants:** It may assist members in finding funding opportunities or grants for their research projects.
7. **Community Engagement:** Research Clubs often participate in outreach activities, applying research to address community issues and enhancing public understanding of science and research.

Overall, the Research Club plays a crucial role in enriching the academic experience and preparing students for future careers in research and related fields.

3.4.1. Workshop on Web Week: Web Development Empowering Business Innovation

Institution Innovation Council (IIC) of Manav Rachna University organized a six day long event of “Web Week – Workshop on Web Development Empowering Business Innovation” from 7th August to 12th August, 2023. Aim of IIC to organize the event was to provide participants with valuable insights to the role of web development in empowering business innovation, highlighting its impact on customer engagement, market expansion, and operational efficiency.

The rapid evolution of the internet and digital technologies has significantly transformed the way businesses operate and interact with their customers. Web development has emerged as a critical enabler of business innovation, allowing organizations to create dynamic, user-centric, and scalable web applications. Scope of web development encompasses the process of designing, building, and maintaining websites and web applications. In recent years, it has become an indispensable tool for businesses seeking to stay competitive in the digital era. Business innovation, characterized by the introduction of new ideas, processes, or products, is essential for maintaining relevance and competitiveness. Web development plays a pivotal role in this innovation by offering the means to create digital solutions that drive growth, enhance customer experiences, and streamline operations.

Keeping the above perspective in mind the workshop was conducted by senior IIC students of Research Cluster of Computing of IIC along with Alumni in industry under the guidance of IIC Faculty members with the aim to provide participants with hands-on experience and practical knowledge in



the field of Web development. The workshop was designed to be interactive and collaborative, with RCC senior student coordinators acting as mentors to guide and support their junior counterparts. The primary objectives of the workshop were to empower junior students with fundamental skills in web development, foster peer-to-peer learning and collaboration among students, provide practical exposure to real-world web development scenarios and develop the ability to design and code a basic website independently. The workshop commenced with Introduction to Web Development. Resource Person provided an overview of web development, highlighting its significance in modern technology. They explained the basic structure of a web page using HTML and introduced the concept of front-end and back-end development. Practical exercises were given to implement the theoretical concepts.

The workshop emphasized on the following roles of web development in business innovation.

1. Enhancing Customer Engagement

a. User-Centric Design

Web development enables businesses to design websites and applications with a user-centric approach. By understanding user behavior and preferences, companies can create intuitive and engaging digital interfaces that enhance the customer experience. This, in turn, fosters customer loyalty and drives innovation through continuous feedback loops.

b. Personalization

Web development facilitates the implementation of personalization features, where businesses can tailor content and services to individual users. This level of customization increases user satisfaction and encourages innovation in product recommendations, content delivery, and marketing strategies.

2. Expanding Market Reach

a. E-Commerce

Web development is a cornerstone of e-commerce, allowing businesses to reach a global audience. Online marketplaces and storefronts enable companies to expand their reach beyond traditional brick-and-mortar boundaries, fostering innovation in product distribution and sales strategies.

b. Mobile Accessibility

The rise of mobile web development has opened new avenues for innovation. Businesses can create mobile-responsive websites and apps that cater to on-the-go consumers, resulting in increased market penetration and customer engagement.

3. Streamlining Operations

a. Automation

Web development enables businesses to automate various processes, reducing operational costs and enhancing efficiency. Innovations in web-based tools and platforms, such as customer relationship management (CRM) systems and project management tools, streamline internal operations and drive productivity.

b. Data Analytics

Web development empowers businesses to collect and analyze vast amount of data. Leveraging data analytics tools, companies can gain valuable insights into customer behavior, market trends, and operational performance. These insights drive innovation in decision-making processes, allowing for more informed and agile strategies.

The Resource Person discussed the Case studies of Amazon and Airbnb. Amazon, one of the world's largest e-commerce platforms, has leveraged web development to drive innovation. Their user-centric design, personalization algorithms, and robust mobile accessibility have transformed online shopping. They continuously innovate in areas like delivery methods (e.g., Prime Now), voice commerce (Alexa), and data-driven recommendations to enhance the customer experience. Airbnb revolutionized the hospitality industry by using web development to connect travellers with unique accommodations. Their platform's accessibility and user-friendly design fostered innovation in the sharing economy, transforming the way people travel and find lodging.

There was further discussion on challenges in web development and future trends. While web development empowers business innovation, it also presents challenges such as cybersecurity threats, compliance requirements (e.g., GDPR), and so is the need for continuous adaptation to evolving technologies. Future trends in web development, including the rise of progressive web apps (PWAs), the adoption of artificial intelligence (AI) for personalization, and the development of more immersive web experiences through technologies like WebXR, will further shape the landscape of business innovation.

The workshop emphasized peer learning and collaboration. Senior students facilitated group discussions, encouraged knowledge sharing, and fostered an environment where junior students felt comfortable asking questions and seeking guidance from their peers. At the end of the workshop, a reflection session was held where junior students shared their experiences and takeaways from the workshop. They provided valuable feedback on what they found most beneficial and suggested areas for improvement in future iterations of such workshops. The workshop had a positive impact on both



junior and senior students. Junior students gained practical skills and confidence in web development, while senior students enhanced their leadership and mentoring abilities.

Overall the workshop communicated the message to the students that the Web development has become a cornerstone of business innovation in the digital age. By prioritizing user engagement, expanding market reach, and streamlining operations, businesses can harness the full potential of web development to drive growth and stay competitive. As technology continues to evolve, staying at the forefront of web development trends will be crucial for organizations seeking to empower innovation and secure their place in the ever-changing business landscape.

Some Glimpse of the event:



Pic 1: Web Week



Pic 2: Web Week



Pic 3: Web Week



Pic 4: Web Week

Web Week

Let's join a workshop that make us learn about web development and its features

JOIN NOW

7th-12th August, 2023

- Venue: RCC(LG10)
- Pre-requisites: Basic computer knowledge
- Certificates for all participants
- Free of Cost
- Limited seats only

Scan QR code to register

Resource Persons:

- **PEEYUSH KUMAR**
B-Tech CSE
3rd Year
- **AMARJEET SINGH**
B-Tech CSE
3rd Year

For More Info
Unnati Verma
+91 7678638983

Workshop Flyer

3.4.2 Institution Innovation Council (IIC)

The Institution Innovation Council (IIC) plays a vital role in fostering innovation and entrepreneurship within a university setting. Here are some key functions and contributions of the IIC:

1. **Promoting Innovation Culture:** The IIC encourages a culture of innovation among students, faculty, and staff, promoting creative thinking and problem-solving.
2. **Entrepreneurship Support:** It provides resources and support for aspiring entrepreneurs, including mentorship, funding opportunities, and access to incubators.
3. **Collaboration with Industry:** The council facilitates partnerships with industries and organizations, bridging the gap between academia and the business world to enhance research and development.
4. **Organizing Events:** IIC organizes workshops, seminars, hackathons, and innovation challenges to stimulate ideas and promote collaboration.
5. **Policy Formulation:** It assists in developing policies that support innovation and entrepreneurship initiatives within the institution.
6. **Skill Development:** The IIC offers training programs and skill development workshops to equip students with the necessary tools for innovation and business.
7. **Showcasing Innovations:** It provides platforms for showcasing student and faculty innovations, facilitating recognition and potential commercialization.
8. **Monitoring and Evaluation:** The council assesses the effectiveness of innovation initiatives and collects feedback to refine programs and strategies.



Overall, the IIC serves as a catalyst for nurturing an ecosystem that encourages innovation and prepares students for future challenges in a rapidly changing world.

3.4.2.1 Workshop on App Development: Upskilling for Product Innovation

Institution Innovation Council (IIC) of Manav Rachna University organized five daylong event of “Workshop on App Development: Upskilling for Product Innovation” from 24th April to 28th April, 2023. Aim of IIC to organize the event was to provide participants with valuable insights and skills related to app development for fostering product innovation. Workshop was conducted by senior IIC students of Research Cluster of Computing of IIC along with Alumni in industry under the guidance of IIC Faculty members with the aim to provide participants with hands-on experience and practical knowledge in the field of App development using Flutter framework. The workshop was designed to empower junior students with the skills needed to develop cross-platform apps and foster peer-to-peer learning. The primary objectives of the training were to introduce junior students to the Flutter framework and its capabilities, provide practical experience in designing and building mobile applications, cultivate collaboration and knowledge sharing among students and enable participants to independently develop a basic Flutter app by the end of the workshop.

The Workshop Highlights were Introduction to Flutter and Dart, Building User Interfaces, State Management and Navigation and Working with APIs and Data. Students were given exposure to best practices for designing user-friendly and visually appealing mobile apps. Attendees learned about user-centered design principles and received practical tips for creating engaging user interfaces. Trainer delved into backend development, highlighting the importance of robust server-side architecture. Participants gained hands-on experience in setting up a backend server, handling data storage, and

managing APIs. Trainer discussed the critical role of testing and quality assurance in app development. Attendees learned about various testing methodologies and tools to ensure the reliability and performance of their apps.

Further the workshop included hands-on coding sessions where participants had the opportunity to apply the knowledge gained during technical sessions. Overall it covered topics such as app prototyping, coding exercises, and debugging techniques. Experienced Alumni mentors were available to provide guidance and support to participants throughout these sessions.

The final day focused on preparing apps for deployment. Senior students guided junior students through the process of building and packaging their apps for Android and iOS platforms. The workshop heavily emphasized peer learning and collaboration. Senior student's encouraged junior students to work together on projects, share knowledge, and help one another troubleshoot challenges. Group discussions and interactive problem-solving sessions were integral to the learning process. The 5-day Flutter app development workshop left a lasting impact on both junior and senior students. Junior students acquired practical skills in building mobile applications, while senior students refined their leadership and mentoring abilities.

The Workshop on App Development: Upskilling for Product Innovation was a resounding success, providing participants with valuable knowledge and skills in the field of app development. Attendees left the workshop with a deeper understanding of the role of app development in driving innovation, and many expressed their intent to apply these insights in their respective startups. The event not only contributed to the upskilling of participants but also fostered networking and collaboration among individuals with a common interest in app development and innovation. The positive feedback received from attendees highlights the workshop's effectiveness in meeting its objectives.



The organizers expressed their gratitude to the participants, speakers in making this workshop a success. The knowledge and skills acquired during this workshop will undoubtedly play a crucial role in shaping the future of app development and product innovation.

Glimpses of workshop:



3.4.2.2 Workshop on ARDUINO & ROBOTICS WORKSHOP

The Arduino and Robotics Workshop were organized by MRU-IIC and Department of Computer Science & Technology, MRU on 6 and 7 November, 2023. The session was conducted by Mr. Vikram Kumar (IIT Chennai, Alumni and Science Communicator). He provided an immersive learning experience for enthusiasts and beginners alike, the workshop aimed to acquire a substantial amount of knowledge in areas such as the basics of MATLAB, its operations, initiating Arduino operations, coding for various sensors in Arduino, and fundamentals of electrical and electronics.

By this workshop, students not only had a functional understanding of Arduino and robotics but also gained the confidence to continue experimenting and building on their own. The event successfully bridged the gap between theory

and application, leaving participants inspired to further explore the exciting possibilities at the intersection of Arduino and robotics. The workshop was attended by 30 students and they also created mini-projects using Arduino and Matlab.

Some Glimpse of the event are as follows: -



Pic 6



Pic 7



Flyer of Workshop



3.4.2.3 Code and Innovate: A workshop on UX/UI Automation with APIs

Institution Innovation Council (IIC) & RCC (Research Cluster of Computing) of Manav Rachna University organized a 2 days long Workshop on "Code and Innovate: A workshop on UX/UI Automation with APIs" from 12th January to 15th January, 2024, which was a comprehensive event aimed at providing insights into various aspects of modern software development and automation. Mr. Suyash Sharma was the key speaker for the event. Mr. Suyash Sharma is the alumni of batch 2018-2022. He is working as a software engineer, IDEMIA and he has over 2 years of experience.

UX/UI automation plays a pivotal role in enhancing the overall user experience and interface design by streamlining and expediting various processes. Automation not only reduces the likelihood of human errors but also ensures consistency in design elements and interactions across different platforms and devices. By automating repetitive tasks such as user testing, prototyping, and design updates, UX/UI professionals can allocate more time and energy to creative and strategic aspects of their work. This not only leads to increased efficiency but also enables teams to iterate and innovate more rapidly, ultimately delivering products and services that meet user needs more effectively. In essence, UX/UI automation is indispensable in achieving a seamless and user-friendly digital experience while allowing designers to focus on the human-centric aspects of their craft.

In alignment with the aforementioned perspective, a workshop on UX/UI automation was conducted collaboratively by senior IIC students and industry expert, guided by faculty members from IIC. The goal of the workshop was to furnish participants with hands-on experience and practical insights into the realm of UX/UI automation. The interactive and collaborative design of the workshop included senior student coordinators from RCC serving as mentors to guide and assist their junior counterparts. The workshop aimed to equip junior students with foundational skills in UX/UI automation, encourage peer-to-peer learning, facilitate collaboration among students, provide hands-on exposure to real-world UX/UI automation scenarios, and cultivate the ability to independently design and code. Commencing with an Introduction to UX/UI Automation, the workshop covered fundamental concepts and practical exercises to immerse participants in the implementation of automation-related theories. The session also emphasized the significance of UX/UI automation in contemporary technology, elucidating its role in ensuring a seamless and user-friendly digital experience. As the workshop progressed, attention was devoted to practical aspects such as project development and deployment scenarios

specific to UX/UI automation. The sessions delved into the intricacies of deploying automated UX/UI solutions, stressing their pivotal role in enhancing efficiency and meeting the evolving demands of digital experiences. Overall, the workshop aimed to empower participants with practical skills and a comprehensive understanding of UX/UI automation principles. A total of 22 students attended the workshop.

The workshop was a resounding success, providing participants with valuable insights into the latest trends and technologies in software development. The collaboration between the Innovation and Incubation Council and the Research Cluster of Computing facilitated a rich learning environment, fostering skill development and knowledge enhancement among the participants. The organizers express their gratitude to the expert instructor Suyash Sharma, for their invaluable contribution to the success of the workshop. In summary, the workshop delivered positive outcomes for both junior and senior participants, with juniors gaining practical skills and confidence, and seniors refining their leadership and mentoring abilities.

Following are few pictures of the Workshop





Day 1



Day 2



Day 3



IIC & RCC Workshop

Code & Innovate: A Workshop on UX/UI Automation with APIs

Let's join a workshop that make us learn about UI UX-API Automation

JOIN NOW

- Venue: RCC Lab(LG10)
- Pre-requisites: Bring your own laptops
- Certificates for all participants
- Limited seats only
- Only for 2nd, 3rd and 4th year students

Scan QR code to register



12th-15th January, 2024
Timings: 9:30 AM onwards

Resource Person:

- Suyash Sharma
Software Engineer, IDEMIA

For More Info

Harsh
+91 8221860654

Flyer of Workshop

3.4.2.4 Expert Talk on Innovate with Java: A visual guide to project development

Institution Innovation Council (IIC) and Research Cluster of Computing (RCC) of Manav Rachna University organized an Expert Talk on “Innovate with Java: A visual guide to project development” on 23rd January, 2024. Mr. Hardeep Singh was the invited speaker for the session, software engineer, IDEMIA having over 5 years of experience in spring boot, Java, Jenkins, AWS DEVOPS and kibana.

The event commenced with an enlightening address by Prof. (Dr.) Goldie Gabrani, ED and Dean Research and Development illuminating the myriad resources available within our university to foster innovation. Prof. (Dr.) Parneeta Dhaliwal, Director IIC provided invaluable insights into project competitions and mentorship opportunities offered by our faculty members in the domains of Innovation, Entrepreneurship, and Startups. Mr. Hardeep Singh enlightened into the process of Project development, HTTP methods and protocols, database Connectivity, Deployment of Models and Project testing.

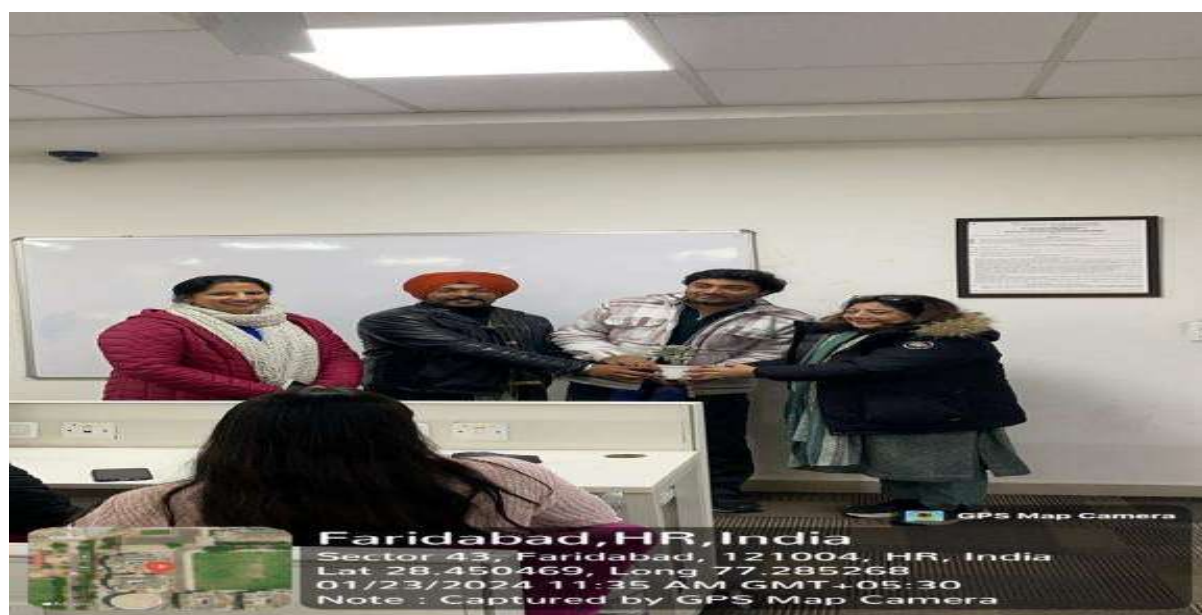
The talk was followed by an interactive question-and-answer session, allowing the students to engage with the speaker directly. Attendees had the opportunity to seek clarification on specific concepts and delve deeper into the practical aspects of the technologies enlightened by the speaker during his session. A total of 22 students attended the talk.

The session was concluded with a vote of thanks to Mr. Hardeep Singh by Dr. Ranjna Jain, RCC Coordinator. Such expert talks facilitated our students in networking opportunities with industry professionals which will lead to mentorship, collaboration, internships and job opportunities in future.

Some Glimpses



Pic 9 Expert Delivering a Talk



Pic 10: Felicitation of Expert

3.4.2.5 Workshop on Unleashing Innovation: Machine Learning Essentials for Beginners

Institution Innovation Council (IIC) & Department of Computer Science & Technology (DoCST) of Manav Rachna University organized a 5 days long Workshop on “Unleashing Innovation: Machine Learning Essentials for Beginners” from 29th January 2024 to 2nd February 2024, which was a comprehensive event with the aim to empower junior students with fundamental skills in Machine Learning, foster peer-to-peer learning and collaboration among students for upcoming competitions and ongoing projects. The training will be conducted by Ms. Liza kansal and Ms. Anoushka Pandey, student coordinators of IIC and students of AIML 6th semester under the guidance of Dr. Parneeta Dhaliwal and Dr. Ranjna Jain. These students have presented many research papers in the field of Machine Learning and were also finalist in UPES 4.0 hackathon conducted by UPES, Dehradun. The workshop on Day 1 commenced with an insightful introduction to the field of Machine Learning & python programming.

On Day 2, the speaker provided a holistic overview, emphasizing the significance of machine learning in today's digital landscape. Building on the foundational knowledge, the workshop transitioned into an in-depth discussion on preprocessing techniques, importance of data cleaning, Data transformation techniques and Data integration and reduction techniques.

On Day 3, Exploratory Data Analysis (EDA) was covered in which Understanding EDA and its significance in data analysis, Descriptive statistics, Data visualization and Exploring relationships between variables were covered.

On Day 4, Introduction to regression analysis, Simple linear regression, Multiple linear regression and Hands-on practice on Implementing regression models using Python libraries like scikit-learn was covered.

On Day 5, Introduction to classification analysis: Concepts and applications, Binary and multiclass classification algorithms: Logistic regression, decision trees, and random forest, Model evaluation metrics: Accuracy, precision, recall, F1-score, and ROC curve and Hands-on practice on Building and evaluating classification models using Python libraries was performed.

During the whole session, attention was devoted to practical aspects on each & every step. Overall, the workshop aimed to empower participants with practical skills and a comprehensive understanding of machine learning techniques. A total of 33 students attended the workshop. The workshop ended with a vote of thanks to Ms. Liza kansal and Ms. Anoushka Pandey with a token of thanks. We are thankful for their valuable time that they spare for the workshop.



Pic 11: Unleashing Innovation: Machine Learning Essentials for Beginners



Pic 12: Unleashing Innovation: Machine Learning Essentials for Beginner



Pic 13: Unleashing Innovation: Machine Learning Essentials for Beginners



Pic 14: Flyer

3.4.2.6 Pitchdeck – A Sustainable Idea Competition

On 7th September, 2023, the Innovation and Entrepreneurship club, under the pre incubation centre along IIC, Manav Rachna University organized a pitching event – “Pitchdeck- A sustainable Idea Generation Competition”, to introduce the first-year students to the I&E club.

The event commenced with an engaging registration process that drew the attention of aspiring entrepreneurs across the university. The registration period spanned two weeks and was open to all students interested in presenting their innovative business ideas. The registration period consists of online registration, team formation, idea synopsis, selection criteria, and confirmation email. Interested students accessed the registration link to filled out a comprehensive online registration form. Each team submitted a concise synopsis of their

business idea, highlighting the problem they aim to solve, their proposed solution, and the potential impact of their innovation. Upon successful submission of the registration form, participants received a confirmation email containing further details about the event, including the pitch format, evaluation criteria, and important data and time.

The Pitchdeck event was held on 7th September, 2023 at the K block room no. KG02. The event spanned from 12:30pm to 3:30pm, offering a mix of idea pitching, jury evaluation, and networking opportunities. The Jury consisted of an external guest Mr Mohit Mahajan, Our universities Dean Research, Dr. Pradeep K Varshney and Dr. Yogita Sharma, Head of Entrepreneurship, Incubation & Startup. There were total of 10 teams that were selected to present their idea and the jury evaluated them on the basis of novelty of idea, relation to sustainable goal, uniqueness and presentation. With the opening of ceremony, each participating team took the stage to deliver a compelling pitch of their business idea. Teams were allotted a maximum of 5 minutes for their presentation, followed by a brief Q&A session with the jury. After each pitch, the jury members engaged in private discussion to evaluate ideas based on predetermined criteria. The event closed with an opportunity to connect and exchange insights.

The Pitchdeck event's registration process and overall execution highlighted the dedication of the Innovation & Entrepreneurship Club to fostering a culture of innovation within the university. By creating an inclusive platform for first year students to showcase their entrepreneurial ideas, the event contributed to the growth of innovative thinking and provided a stepping stone for potential future ventures. This whole event was executed by the team I&E Club under the guidance of Dr. Yogita Sharma.

Some Glimpse:



Pic: 15: Pitchdeck – A Sustainable Idea Competition



Pic: 15: Pitchdeck – A Sustainable Idea Competition

3.4.2.7 Motivational Webinar on Successful Entrepreneurs/ Startup-Founders

On Saturday, September 9, 2023 from 12:00- onwards, an insightful online webinar was organized in association with AIC BIMTECH, featuring Mr. Pulkit Madan, the esteemed Founder and CEO of Warp Bay. The Webinar was organized by Manav Rachna University's Entrepreneurship cell (E-Cell) under MRU Innovation and Incubation cell (IIC). The webinar aimed to provide students with valuable insights into the realms of startups and entrepreneurship, drawing from Mr. Madan's personal journey and experiences.

Mr. Pulkit Madan, known for his exemplary entrepreneurial journey with Warp Bay, took center stage during the webinar. He shared his challenges, triumphs, and invaluable lessons learned along the way. His talk encompassed various facets of entrepreneurship, ranging from the inception of an idea to the execution of a successful venture. Mr. Madan delivered a comprehensive discourse, touching upon several pivotal aspects of entrepreneurship.

He emphasized the significance of assembling a passionate and skilled team, advocating for a collaborative environment where each member complements the others' strengths. Underscoring the inevitable hurdles in the entrepreneurial journey, Mr. Madan stressed the importance of resilience and determination in overcoming challenges. He encouraged students to seek wisdom from successful entrepreneurs, highlighting the importance of networking and continuous learning in fostering growth and innovation.

Mr. Madan emphasized the necessity of staying abreast of market trends, being open to taking calculated risks, and adapting strategies accordingly. Providing practical insights, he offered advice on formulating business plans, devising effective marketing strategies, and securing capital for startups. The webinar concluded with several key takeaways for aspiring entrepreneurs: The importance of a strong and cohesive team, the necessity of perseverance in the face of challenges, the value of learning from others' experiences and

networking, remaining updated on industry trends and being adaptable, embracing calculated risks and seizing opportunities, Implementing concrete strategies for business development and growth.

In summary, the online webinar featuring Mr. Pulkit Madan served as a beacon of inspiration and guidance for the enthusiastic students from Manav Rachna University. The session not only illuminated the intricacies of entrepreneurship but also equipped attendees with practical insights and strategies essential for navigating the dynamic landscape of startups.

Mr. Madan's expertise and wisdom undoubtedly left an indelible mark on the aspiring entrepreneurs, paving the way for their future endeavors. The organizers extend heartfelt gratitude to Mr. Pulkit Madan for his invaluable contribution to the webinar, as well as to all the participants for their active engagement and enthusiasm. A total of 100+ students from Manav Rachna University attended the My Story- Motivational Session.

Snapshot



My Story- Motivational Session by Successful Innovators

3.4.2.8 Incubator visit to AIC IIT Delhi, Sonipat, Haryana

School of Management & Commerce in association with Innovation & Entrepreneurship Club, Under Pre-Incubation Unit, Manav Rachna University in collaboration with IIC, MRU organized an Incubator visit to AIC IIT Delhi, Sonipat, Haryana on April 25, 2024.

AIC-IIT Delhi Incubation Centre is the trademark and brand name of the Atal Incubation Centre established at IIT Delhi. It is one among the several Atal Incubation Centres that are being established in the country and funded by the Atal Innovation Mission set up by NITI Aayog.

A total of 40 participants from BBA-Entrepreneurship & Family Business, MBA-Business Analytics Engineering and other members of the pre-incubation unit embarked their journey to Incubator Camp.

Objective of the visit

- To understand the culture of Start -up ECoSystem
 - To expose our budding Entrepreneurs to the various Challenges and growth trajectory of the Entrepreneurs in order to familiarize the students

The visit commenced with an engaging opening session led by an experienced mentor at AIC. They elucidated the purpose and objectives of the visit, emphasizing the crucial role of AIC in India's economic landscape. He elaborated on how AIC drives innovation, creates startups, and promotes self-sufficiency. During this session, he provided a comprehensive overview of how to support budding entrepreneurs in the sector.

Following the enlightening opening session, students embarked on a business

model canvas activity. Here the students were required to think of a business model by applying the SCAMPER Technique to it. The students were divided in the teams of 6 each and were provided with the material to comprehend and present their business ideas.

Students actively participated and came up with interesting business ideas. The motive of this activity was to bring up a feeling and understanding the importance of entrepreneurship among the students.

Learning Outcome:

- The visit empowered students with practical know-how and resources, preparing them for their entrepreneurial journey while contributing to the advancement of India's growth (Vikshit Bharat)
- The Business Models were proposed and presented by the student Teams which were evaluated and appreciated by the Incubator team.

We appreciate the support extended by senior functionaries for organising this visit. The whole visit was conducted under the guidance of Prof (Dr) Yogita Sharma and Dr. Shiv Kumar Singh Pundir and the student team of I&E Club.

Some Glimpse:



3.4.2.9 Workshop on Innovate with Technology

IIC in collaboration with RCC, Manav Rachna University hosted an insightful workshop titled "**Innovate with Technology**" on April 1st and 2nd, 2024. The workshop aimed to provide students with interdisciplinary applications utilizing MATLAB and hands-on experience on Arduino-based projects. Renowned speaker, **Mr. P. Vikram Kumar, an esteemed alumnus of IIT Chennai and a distinguished Science Communicator**, facilitated the sessions. The workshop was coordinated by Ms. Anu Priya Sharma, along with student coordinators, Durga Parshad, Sridhar, Srinivas, Sujith of CSE 2nd year.

Day 1 commenced with Mr. Vikram Kumar's engaging session on logical reasoning, encouraging students to apply their critical thinking skills. He delved into various logical scenarios, prompting students to employ their reasoning abilities effectively. Subsequently, Mr. Vikram Kumar explained MATLAB functionalities, covering many topics including the innovative concept of noise cancellation of audio signals.

Day 2 commenced with Mr. Vikram Kumar's insightful exposition on Arduino programming, guiding students through practical demonstrations and aiding them in crafting their own projects. The University generously provided requisite components to facilitate students' hands-on learning experience.

The target of two two-day workshops was to thoroughly understand and do at least 5 projects with Arduino and audio signal processing (denoising) using MATLAB. Towards the end of day 1, the following project ideas were discussed:

- Attendance in class based on photo taken,
- helmet detection and penalty system,
- Face mask detection,
- voice-based door/ laptop opening,

- Fingerprint/Iros-based lock open or attendance and many more.

The workshop witnessed active participation from all students who exhibited remarkable consistency and concentration throughout the two-day event. Mr. Vikram Kumar's dedication was commendable as he extended his assistance to students beyond workshop hours, even providing guidance late in the night within hostel premises.

Mr. Vikram Kumar also held an informative session for CST faculties, where he discussed innovative project ideas with faculties.

The workshop concluded with a token of appreciation by Dr. Parneeta Dhaliwal, Director, IIC. The coordinator of the event Ms. Anu Priya Sharma and Dr. Ranjana Jain honoured Mr. Vikram Kumar in recognition of his invaluable contribution. "Innovate with Technology" workshop proved to be an enriching experience for all attendees, equipping them with practical skills and knowledge to navigate the realms of MATLAB and Arduino-based projects effectively.



3.4.2.10 Bootcamp on Business Model Canvas

“A business model describes the rationale of how an organization creates, delivers, and captures value” — Alexander Osterwalder. With this thought in mind, Innovation and Entrepreneurship club, under IIC of Manav Rachna University in association with AIC IIT Delhi Sonipat Innovation Foundation organized Bootcamp on Business Model Canvas Workshop on 14th September 2023. The speaker for the event was Mr. Manveen Singh Chadha. Mr. Manveen Singh Chadha is the Senior Manager (Incubation) at FITT-IIT Delhi.

Mr. Chadha is steadfast at developing a pipeline of promising deep-tech startups with a vision to enable innovation and contribute towards nation-building. From designing, managing incubation programs to handholding startups to excel in the ecosystem, Mr. Chadha has led various capacity building efforts and technology-based entrepreneurship programs including “Delhi Innovation Summit” & “Sonipat Startup Summit” over the course of 10 years of his career. The event proved to be a great success and resounding success, with approximately 60 participants. This workshop held at G – block, CADR room was curated to cater to aspiring entrepreneurs and students who are keen on mastering the art of creating startups and business models. It helped the participants to gain valuable insights to serve a solid foundation for creating startups and take it as career opportunity.

The students were involved in a fun and creative activity wherein they made charts on an innovative product based on SCAMPER technique (an acronym for Substitute, Combine, Adapt, Modify/Magnify, Purpose, Eliminate/Minimize and Rearrange/Reverse) using stationary items like sticky notes, chart papers, sketch pens. They also presented their unique and innovative ideas in front of everyone. The interactive sessions and engaging activities facilitated learning and a dynamic environment. The workshop was the result of a successful



collaboration between the Innovation and Entrepreneurship Club, led by its dedicated members, and the invaluable guidance of the faculty coordinator, Dr. Yogita Sharma.

This event stands as a testament to the passion and commitment of the club members who worked tirelessly to bring this opportunity to fruition. The workshop itself was a rich source of knowledge and inspiration for all attendees. Through engaging presentations, hands-on activities, and interactive discussions, participants were able to delve deep into the intricacies of creating and refining business models.

The content was thoughtfully curated to provide a comprehensive understanding of the key elements that constitute a successful business venture. The positive feedback from the participants speaks volumes about the impact of the workshop. Attendees not only left with newfound knowledge but also a renewed sense of enthusiasm and motivation. Overall, the workshop was a resounding success, thanks to the dedication of the Innovation and Entrepreneurship Club members and the invaluable guidance of Dr. Yogita Sharma.

3.4.2.11 Demo Day

On April 18th and 19th, 2024, the Innovation and Incubation Center (IIC) collaborated with the School of Engineering to organize an exciting Demo Day. The session was inaugurated with welcome speech by Dr. Shruti Vashist, Dean Academics MRU. Prof. (Dr.) Rajeev Kumar Maheswari, Lucknow a distinguished expert in the field, graced the event as the guest judge. His insights and feedback were invaluable to the participants. Over 35 teams participated in this event, showcasing their innovative projects. The students presented an impressive array of projects, spanning both hardware and software domains. Here are some notable ones:

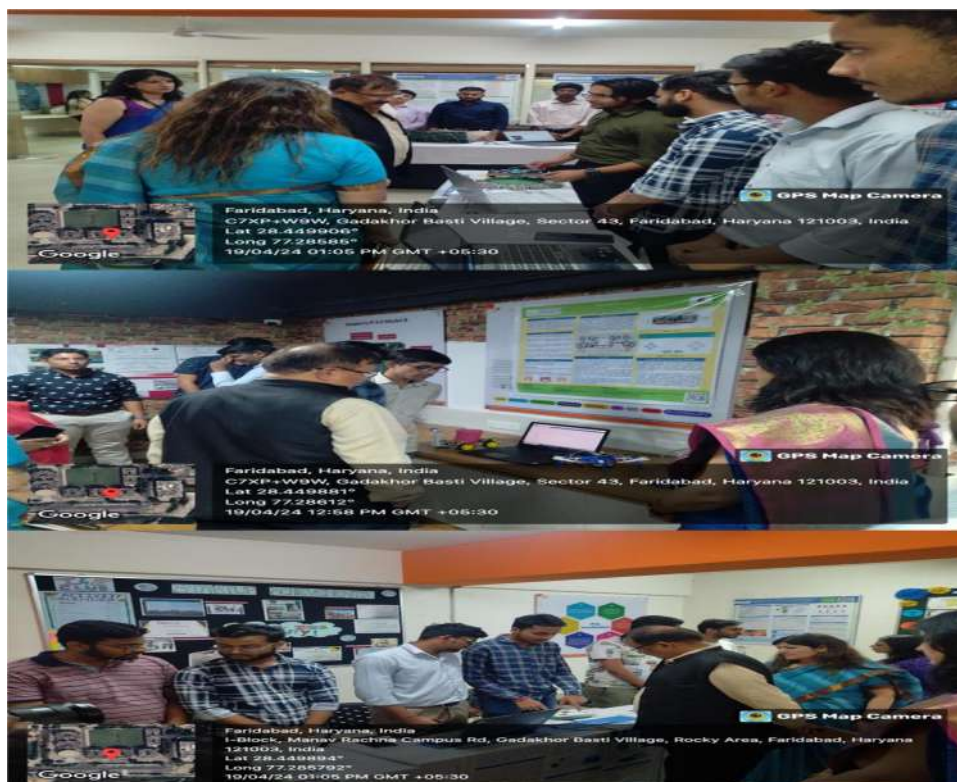
- Peach Leaf Disease Classification: A project aimed at using machine learning techniques to identify and classify diseases affecting peach leaves. This could

have significant implications for agriculture.

- Hypertensive Retinopathy Prediction: Students explored predictive models to detect hypertensive retinopathy, a condition related to high blood pressure affecting the eyes.
- Machine Learning-Based Prediction of Preeclampsia Risk: An analysis of clinical variables to predict the risk of preeclampsia during pregnancy. This project could enhance maternal healthcare.

On the similar path, various other projects also showcased by the students from various backgrounds, including computer science & Engineering, Mechanical engineering, and Electronics & Communication engineering. Their collaborative efforts were commendable.

Demo Day provided a platform for students to showcase their creativity, problem-solving skills, and technical prowess. The projects exhibited have the potential to make a real-world impact, and we look forward to seeing their continued development. Overall, the event was a resounding success, fostering innovation, collaboration, and knowledge sharing.



Some Glimpses:



3.4.2.12 Workshop on Industry 4.0 by SAE Society of MRU

The Society of Automotive Engineers (SAE) in collaboration with IIC and ME department at MRU organized a workshop on Industry 4.0, on 27th-Oct-2023 at Robotics Lab, a revolutionary concept encompassing the integration of advanced technologies to enhance automation in various industries. The workshop aimed to impart knowledge on the practical implementation of automation through the use of relays, Arduino, Raspberry Pi, and robotic arms, with a focus on communication using Python programming.

The workshop was conducted by Mr. Manoj Yadav, a distinguished expert from SVR Infotech, Pune. Mr. Yadav brought a wealth of experience and practical insights into the application of Industry 4.0 technologies. His expertise

in automation, relay systems, Arduino programming, Raspberry Pi applications, and robotic arm control through Python programming made him an ideal resource person for this workshop.

The workshop covered a wide range of topics to provide participants with a comprehensive understanding of Industry 4.0. The key areas included:

- Introduction to Industry 4.0: Understanding the fundamental concepts and principles behind the fourth industrial revolution.
- Automation Basics: Exploring the role of relays in automation and their application in various industries.
- Arduino and Raspberry Pi Integration: Practical sessions on programming and interfacing Arduino and Raspberry Pi for automation purposes.
- Python Programming for Communication: An in-depth look into Python programming for effective communication between automated systems.
- Robotic Arm Control: Hands-on sessions on controlling robotic arms and their integration into automated processes.

Workshop Highlights:

- Interactive Sessions: The workshop featured interactive sessions, encouraging participants to ask questions and engage in discussions with Mr. Manoj Yadav, fostering a dynamic learning environment.
- Live Demonstrations: Live demonstrations of automation setups, including relay systems, Arduino programming, Raspberry Pi integration, and robotic arm control, provided practical insights into Industry 4.0 applications.
- Hands-on Activities: Participants had the opportunity to participate in

hands-on activities, allowing them to apply the concepts learned during the workshop.



- **Networking Opportunities:** The workshop provided a platform for students to connect with industry experts, fostering networking opportunities for potential collaborations and knowledge exchange.

Conclusion:

The Industry 4.0 workshop conducted by the SAE Society of MRU, featuring Mr. Manoj Yadav from SVR Infotech, Pune, was a resounding success. Participants gained valuable insights into the practical applications of automation technologies, equipping them with the knowledge and skills needed for the evolving landscape of Industry 4.0.

The workshop not only contributed to the academic and professional growth of the participants but also strengthened the ties between MRU's SAE Society and industry professionals, paving the way for future collaborations and knowledge-sharing initiatives.

Some Glimpses:-



3.4.2.13 An Awareness session and visit to Incubation Facilities by students of K L Mehta Girls College

The Entrepreneurship Awareness Workshop cum visit was organized by IIC and MRU E cell in association with Dr. O P Bhalla Foundation as a community support initiative under the MRU Innovation and Incubation cell (IIC) on 16-2-2024. 15 students along with HoD CST department came to the campus for a one-day workshop and visit to Incubation. This event was an initiative in the direction to support colleges in the community for support towards funding, mentoring and incubation support of business ideas of student entrepreneurs who plan to embark on their entrepreneurial journeys.

The students interacted with the students who are currently working on the startup projects, faculties mentoring the projects, visited the incubation facilities and undertook a brief exercise on idea generation and how the ideas need to be understood under the lens of design thinking test of desirability, feasibility and viability.

Benefits of the Activity:

- The students were very enthusiastic and felt motivated after the interaction and visit to the incubation facilities.
- Support to other community colleges to undertake collaborative projects that can be funded and supported by faculty mentors.
- Increased student participation in the upcoming projects like Business Simulation workshop where the students from K L Mehta have shown active interest and registration.
- Future plans to conduct similar such entrepreneurship workshops so that active participation can be planned on collaborative start up projects.

Some Glimpse:-





3.4.2.14 Kaushal”: A skill development program

Innovation and Incubation centre (IIC) MRU in association with the Dr. O P Bhalla Foundation has been diligently working on enhancing the skill development of Government School Students through its initiative called Kaushal. We are proud to announce the successful completion of two batches, each comprising 50 students, under this program.

On April 25, 2024, marked the commencement of the first session of the third batch at Manav Rachna University (MRU). Under the mission of enhancing the skill of Government School Students and making them ready for job through its initiative called Kaushal Karyashala. The students were taught the basics of

Microsoft Office emphasizing on MS Word. The Program is being conducted by Dr. Prashant Bhardwaj, and Dr. Jai Prakash Sharma with the guidance of Dr. Parneeta Dhaliwal.

The students of this third batch belong to Grades 9 to 12 and are from GSSS Bhankri. Their enthusiasm was palpable during the inaugural class, where they delved into the basics of Hardware and Software, mastering essential skills such as operating a mouse.

We are excited about the prospects of this new batch and remain committed to empowering these students with valuable IT skills that will undoubtedly shape their futures.

Some Glimpse:-





3.4.2.15 INNOVATE AND ELEVATE 1.0 MASTERING FULL STACK DEVELOPMENT: A BOOTCAMP

In an ever-evolving digital landscape, the demand for skilled full stack developers continues to soar. To meet this demand and equip aspiring developers with comprehensive skills, IIC at MRU hosted an intensive five-day boot camp from 22nd April-26th April 2024 on full stack development. This immersive journey aimed to empower participants with the knowledge and tools necessary to thrive in the dynamic world of web development.

The expert of sessions was Senior Consultant & Trainer Mr. Vishal Batta, who is having a vast 15+ years of relevant experience in Software Development, which includes User Interaction, Business Analysis, Design, Development, Implementation using java/J2EE technologies with hand on experience on Application Design and Development using Java Technology on MVC Architecture and Web Technologies. He is Microsoft Professional (MCSD) and Certified Professional in Oracle from Expert Rating.

The event was coordinated by Ms. Anu Priya Sharma, along with student coordinators CH Akshaya, Sai Srinivas, Jai Kumar Mangla, and Nishchay Gupta under the guidance of Dr. Parneeta Dhaliwal, Director IIC.

BOOTCAMP DAY – 1: Foundations of Web Development

The introduction summary of the overall bootcamp was given by Mr. Vishal Batta. The topic started from the basics of HTML and CSS (Introduced with different ways of using CSS like Inline, Internal, and External)

Further he discussed about the standard code in the website of Bootstrap which is the most popular framework for developing responsive and mobile-first websites.

Students did hands-on practice on the responsive web designs and learnt how automatically pages adjust for the different sized screen and viewports.

The speaker created an atmosphere to start learning how to create a responsive with hands-on practice by using different layouts.

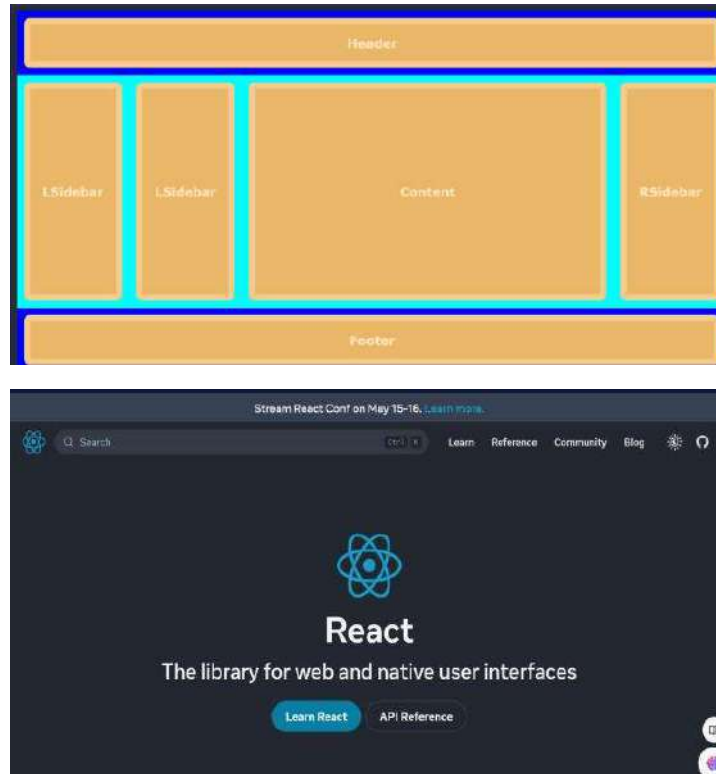
- Website link : <https://getbootstrap.com/>

Further students learned about the modern new technology of JavaScript i.e., **ECMA Script (European Computer Manufacturers Association Script)** and learned the use of `filter()` and `map()` functions.

BOOTCAMP GLIMPSES:



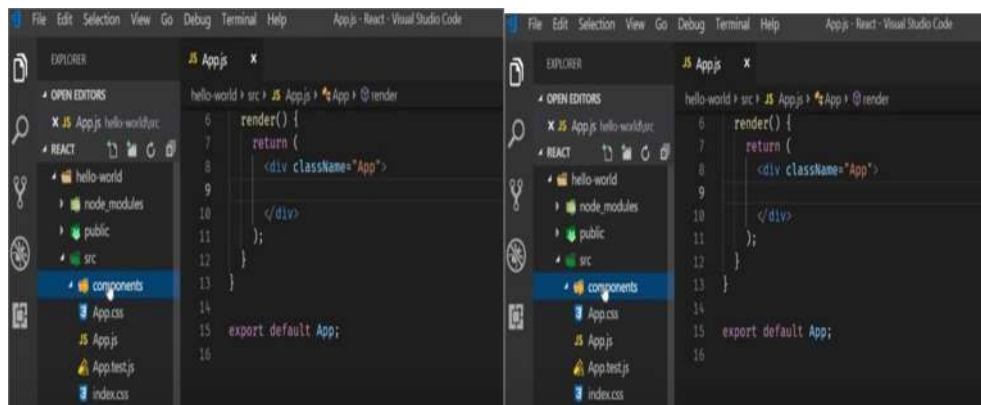
BOOTCAMP Learning Outcomes: DAY 1

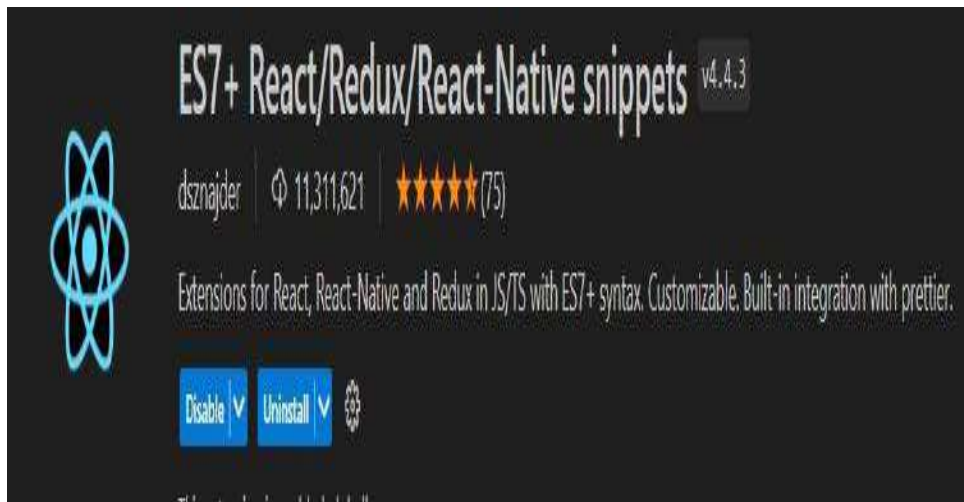


BOOTCAMP DAY – 2 Mastering Front-end Technologies

The main structure of web development was started on day 2. The **introduction to REACT JS, and Node.js**, which is an open-source Library for building user-interfaces and has a Rich Eco-System as it handles HTTP requests, routing etc. and capable of building full-fledged web applications. Visual Studio Code was used as an editor.

BOOTCAMP Learning Outcomes: Day2





BOOT CAMP – 3 Back-end Development Essentials

The third day of the boot camp shifted the focus to back-end development essentials. Participants were introduced to server-side programming languages such as SQL.

3rd day the speaker assigned the projects to a group of 2-4 members. 3 topics were given in which every group had to choose one topic.

Following mini projects topics were assigned to the teams:

Employee management system

Hospital management system

Hotel management system

Today Students were able to create an app. In the morning session they created an app called “React-route” with the basic components. In which they connected the web server by installing the react-route-dom.

In the Afternoon session students worked on the project which they have been assigned.

BOOTCAMP – 5: Project Showcase and Career Insights

The final day of the boot camp provided participants with an opportunity to showcase their newfound skills through project presentations. Collaborating in teams, they demonstrated full stack applications they had developed over the course of 5days, receiving feedback from the instructor. Additionally, the day concluded with insights into career pathways and job opportunities in the field of full stack development, equipping participants with valuable guidance as they embarked on their professional journey.

The five-day boot camp hosted by Manav Rachna University provided participants with an immersive and enriching experience in full stack development. Through a combination of theoretical knowledge and hands-on practice, attendees gained proficiency in front-end and back-end technologies, empowering them to build dynamic and scalable web applications. As they departed equipped with newfound skills and insights, they were well-prepared to embark on successful careers in the ever-expanding realm of web development.

At last there was feedback session by both instructors as well as by students. Some insights were shared by Ms. Anu Priya Sharma about the entire journey of five day bootcamp. On closing ceremony Dean Academics Dr. Shruti Vasista, Dean Engineering Dr. Goldie Gabrani shared their valuable thoughts. Dr. Parneeta concluded the session with vote of thanks. A memento was presented to the expert and certificate of completion were given the students.

Final Outcomes:

- Introduction to HTML, CSS, Javascript
- Introduction to React.js
- Projects and app development
- Problem Statements
- Industry based interview training
- Projects on:
 - Hospital Management System
 - College Management System
 - CRUD Application

BOOTCAMP GLIMPSES - DAY 5





3.5 CENTRES FOR EXCELLENCE

The training session on the "Installation of Room Air Conditioner and Sky Air Conditioner" was held on 19th March 2024 at Manav Rachna University. Organized by DAIKIN in collaboration with MRU, the session targeted MRU students and DAIKIN Service Partners to equip them with practical skills and technical knowledge essential for efficient installation and maintenance of DAIKIN air conditioning systems.

Objectives:

The primary objective of this training session was to:

1. Provide hands-on installation skills for DAIKIN's Room Air Conditioners and Sky Air Conditioners.
2. Enhance the technical understanding of HVAC systems among MRU students.
3. Strengthen the DAIKIN-MRU industry-academic collaboration by offering practical learning experiences.

Attendees:

- **DAIKIN Service Partners:** Technicians and service representatives.
- **MRU Students:** Mechanical Engineering students focused on HVAC and Thermal Engineering.

Agenda:

1. **Introduction**

Overview of DAIKIN's Room Air Conditioner and Sky Air Conditioner systems, including their unique features, components, and operational benefits.

2. Hands-On Installation Training

Step-by-step demonstration of installation techniques for both types of AC systems:

- o Safety protocols and installation requirements.
- o Proper handling and assembly of AC units.
- o Demonstration of electrical connections and system calibration.

3. Maintenance Best Practices

Preventive and corrective maintenance procedures were discussed to prolong AC lifespan, improve efficiency, and prevent common issues

Outcomes:

- **Skill Enhancement:** Attendees gained practical skills, enhancing their ability to execute installation and maintenance tasks confidently.
- **Industry Knowledge:** Students gained insight into industry practices and standards in HVAC installation and maintenance.

Some Glimpse:-



3.6 Research Motivation-Undergraduate Programme

Research motivation refers to the underlying reasons or driving factors that inspire students to engage in research activities. Providing research motivation to undergraduate students involves creating an engaging and supportive environment that fosters their interest in research. Here are some key aspects of research motivation:

- 1. Provide Research Opportunities:** Offer structured opportunities for students to get involved in research, such as internships, summer research programs, or independent study projects. Highlight accessible options for first-time researchers.
- 2. Intellectual Curiosity:** A desire to explore new ideas and solve complex problems. This curiosity often leads students to ask questions and seek answers through research.
- 3. Celebrate Diversity in Research:** Highlight diverse research topics and methodologies. This can help students see that there are many ways to conduct research and that their unique perspectives are valuable.
- 4. Passion for a Subject:** A strong interest in a specific field or topic motivates students to delve deeper, explore literature, and conduct original research.
- 5. Desire for Knowledge Advancement:** Many students get motivated by the goal of knowledge in their field. They aim to address gaps or challenges and enhance understanding.
- 6. Career Development:** Engaging in research can enhance skills, making students more competitive in the job market. Research experience is often



valued by employers and can open doors to advanced study or specialized roles.

7. Problem-Solving: The desire to address real-world issues can drive research efforts. Many students are motivated by the potential to create solutions that positively impact society or specific communities.

8. Collaboration and Networking: Research often involves teamwork and collaboration, providing opportunities to connect with peers and experts, which can be motivating for many.

9. Mentorship and Guidance: Support and encouragement from faculty members or mentors inspires students to pursue research, helping them to navigate the challenges and recognize their potential.

10. Personal Growth: The research process can lead to personal development, including improved critical thinking, resilience, and independence. Many students are motivated by the transformative nature of research experiences.

9. Recognition and Contribution: The prospect of sharing findings through publications, conferences, or community engagement motivates students to produce quality research.

11. Funding and Resources: Availability of grants, scholarships, or research funding can also motivate individuals to pursue research opportunities, alleviating financial burdens associated with their studies.

12. Create a Supportive Environment: Build a community where students feel comfortable sharing ideas and seeking help. A supportive atmosphere can reduce apprehension and encourage more students to participate in research.

By implementing these strategies, faculty members inspire undergraduate students to embrace research as a rewarding and integral part of their academic journey. Besides this, by understanding this motivation helps the faculty members and University to create environments which supports and encourage the engagement of research among students and researchers.



CHAPTER: 4

SUMMER TRAINING, INTERSHIPS AND PLACEMENTS

Introduction

Fulfilling the dreams of the students has been a constant endeavor of Corporate Resource Centre (CRC), the central arm of Manav Rachna University. The Corporate Resource Centre (CRC) plays an imperative role in shaping up the career of students from orientation to their final placements. The Centre endeavors to assist students in accomplishing their career goals through the best job opportunities. CRC takes on the responsibility of organizing in-campus interviews/ off campus interviews with the business giants.

The CRC

- CRC functions as a connecting bridge between the University, Corporates/Industries and Students.
- Aims to place the maximum number of students through campus & off-campus interviews conducted by the top companies
- Provides the suitable job opportunities to students as per their skill sets
- Gathers information, through close and regular interactions with the leading recruiters, regarding the knowledge and skills requirements of the industry

- Advises the institutions / faculties to incorporate these requirements to make our students even more industry ready and job ready.

- The Placement activities are for the students and by the students.
- The process is transparent and commences with the uploading of the student's profiles on the Superset portal.
- Each student, faculty coordinators and CRC members have access to the portal and all of them have their individual login Ids.
- The leading companies from all sectors are invited by the CRC on the campus, where the eligible students guided to go through the entire selection process.
- There is a dedicated team of faculty coordinators and student coordinators to monitor the entire process starting from the registration till the final placement.

4.1.1 Steps for students' registration on Superset Portal for placement

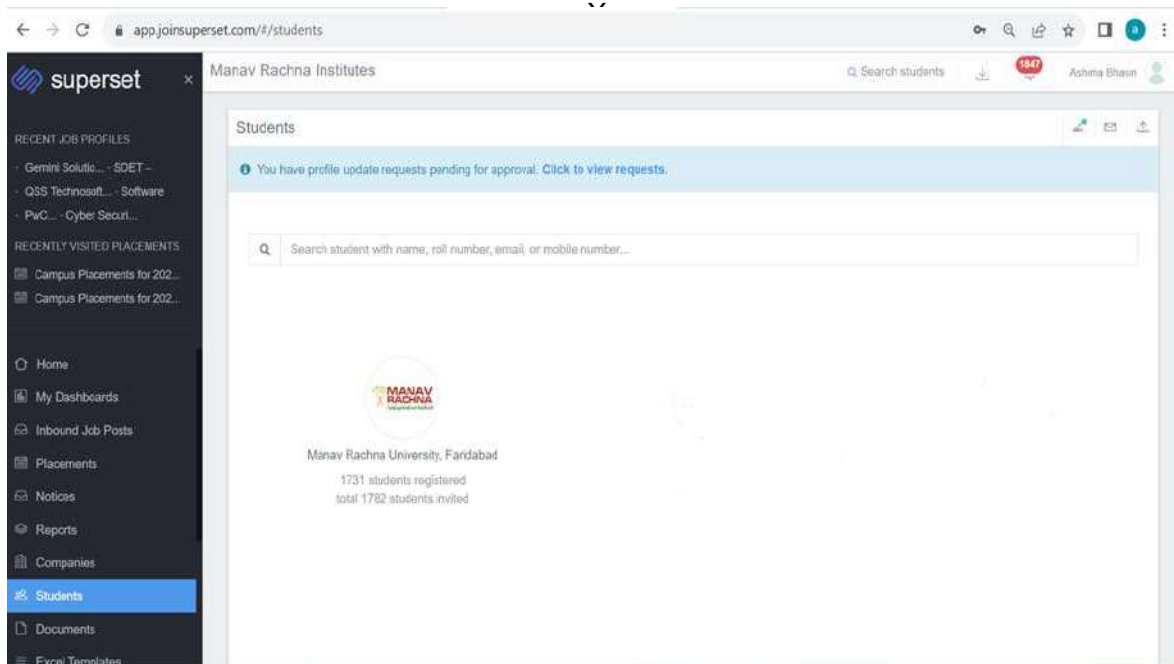
☞ Personal and academic data is uploaded on the portal by **superset** backend team.

☞ System mails along with portal link with their user ID and password are sent to all the students.

☞ It is mandatory for all pre final year students to accept the invite and register themselves on superset with their career choices

- ☛ Students who are seeking placements assistant from the University enroll themselves on the platform.
- ☛ After student's enrolment, placement coordinators (PCs) will verify the students' profile. Without data verification one will not receive job notification from CRC.
- ☛ After data verification aspirants receive the job updates on their registered email id and Mobile app.

Superset Link: <https://app.joinsuperset.com/#/a/dashboard>



ROLES AND RESPONSIBILITIES OF STUDENT PLACEMENT CO-ORDINATORS

Placement Coordinator should be responsible for providing master data of pre final year students within the stipulated time period to CRC

PCs act as a linking pin between students and CRC

Ensure timely registration of students on Superset portal. Take the undertaking of those students who are not interested for placements and get it uploaded on Superset

Verifies students' database on Superset Portal timely

Any changes in the Superset portal by the students are to be verified by PCs with the help of relevant documents

PCs counsel and motivate students for the registration for campus placements within the time period

Identify broad areas of placements by exploring other reputed Institutes/ Universities websites

PCs timely update CRC about self-placement with valid document proof

PCs shall timely collect the offer letter / Appointment Letter / Joining Letter and submit it to CRC

Placement coordinator (PC) also takes care of students' discipline and coordination during campus placement

PCs create the Student Placement Committee every year which will closely work with them for coordination during placements. Also submits the list of selected SPCs to CRC

PC is responsible for keeping records of the attendance of students

Encourage the active participation of students in the recruitment drive and ensure the maximum registration and participation

PC is expected to submit the details of those students to CRC who have not applied for a campus drive. The reason for the same should also be submitted

PC has a right to debar the students who are not following the guidelines. The Action taken on such cases should be submitted to CRC

PC keeps the record of all the offences committed during the placement events

PC submits the report/data of final year students who go for higher studies and entrepreneurship

- ❖ SPC helps CRC in all placement related activities such as providing help in welcoming, escorting and see off the guests.
- ❖ SPC is encouraged to identify potential recruiters and develops relationships with corporate.
- ❖ SPC is expected to take initiatives in clearing the doubts of future aspirants about the selection process, duties and skills required.
- ❖ A dedicated workstation is earmarked for SPC members at CRC, for related activities and data storage.

ROLES AND RESPONSIBILITIES OF STUDENT PLACEMENT CO-ORDINATORS

➤ **Role & Responsibilities: Student Placement Committee (SPC) Members**

- ✓ SPC acts as a linking pin between CRC and aspirant students.

➤ **GENERAL GUIDELINES**

- ☞ All eligible students who require placement assistance must fill a Placement registration form/ register on placement portal.
- ☞ Once registered, the student must participate in the placement activities.

- ✎ The Student wishing to opt out of the placement assistance can do so by signing the declaration in Annexure 2.
- ✎ Students participating in the campus placement are required to be present in formal attire. This is, light colour shirt and dark colour trousers with tie and blazer for the male students. For female students, the attire is business suits with scarf or formal kurti.
- ✎ Students should follow the deadlines in giving their name for the campus placement, failing in which they need to route through their placement coordinators with valid reasons.
- ✎ Any student, who misbehaves, shall be liable to be debarred from all Placement related activities.

ELIGIBILITY CRITERIA:

- ✎ All registered students graduating from the University are eligible to participate in the placement activities.
- ✎ Students should have good conduct throughout the course
- ✎ A student can participate in the placement process of a company subject to the following conditions
 - **Student should be registered in Superset portal**
 - **He/ She meets the eligibility criteria specified by the company**

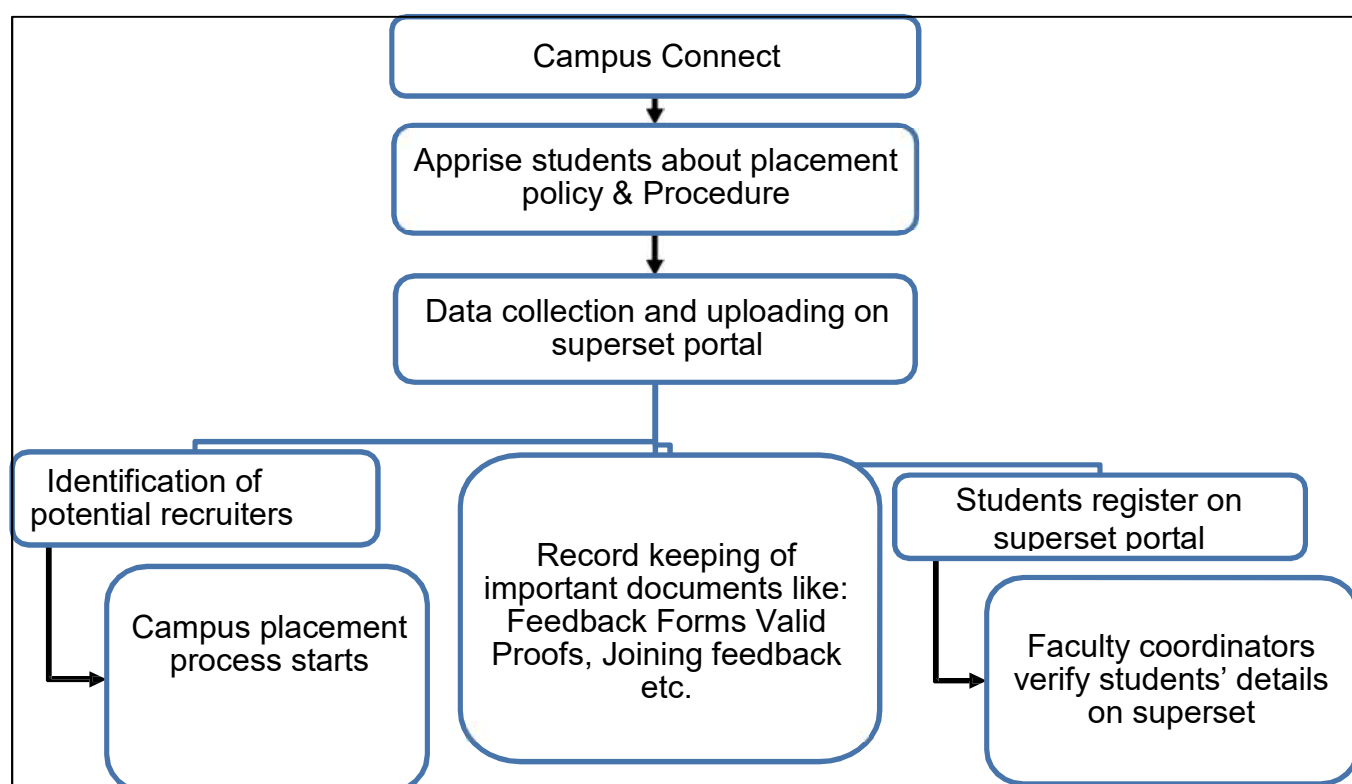
4.1.2 Placement Policy Guidelines for Campus Placement

In order to streamline the placement procedure and afford equal, just and fair opportunity to all categories of students, the following guidelines are notified:

- a.** CRC consider Students passing only through the online automation platform (Superset)
- b.** All students are allowed to participate in all placement activities (in /off campus) until they are finally selected.
- c.** Once a student gets confirmation from a company for selection, he/ she is not allowed to participate in any further placement activity.
- d.** If a student is selected by a company other than his/her core Competency Company, a second chance is allowed for participating in campus placement.
- e.** An additional opportunity for getting selected in companies offering Rs. One lac (p.a.) or more compared to previous offer is allowed to the students.
- f.** Students who already get selected on their own are afforded opportunity, if desired to participate in all campus placement events till finally selected, irrespective of package differential.
- g.** A student, who confirms participation in a placement event (in/off campus) and thereafter absents himself without valid reasons, is not allowed to participate in the next three placement event (one- time debarring). This is to discourage absenteeism, which causes embarrassment to the faculties, CRC and the

organizers of the event. This penalty may be waived off at the discretion of the Vice Chancellor.

h. All students are permitted to choose one company as the 'Dream Company' while making the online registration at the beginning of the placement season. This enables students to appear for the selection process as and when the 'Dream Company' of their choice, even if they have been selected earlier by a different company. Students are not allowed to change their 'Dream Company' mid-stream even if the 'Dream Company' of their choice does not conduct recruitment drive.



Placement Proforma- ANNEXURE-1

TERMS & CONDITIONS FOR CAMPUS PLACEMENTS

Terms & Conditions for Campus Placements

- ✉ All the students, interested to appear for placement drives (on/off Campus) must be registered with CRC with correct data. If appearing for placements the eligibility criteria of the organization concerned should be matched
- ✉ Before appearing for any placement drive, all the students need to ensure that they are meeting the required eligibility criteria of the company. If it is found that the student has given false information about his/her marks or backlog at the time of Campus Recruitment, it will be considered as a Level 3 offence and the student will be awarded three black dots. Moreover, needless to say that his current job offer will be revoked by the company
- ✉ All announcements regarding CRC activities, schedules and other day to day notices will be sent via email to student placement coordinators, circulation of these notices among respective mail groups will be considered as an official mean of communication between CRC and the students. The students are advised to check their email and placement groups frequently for all CRC related updates
- ✉ CRC publishes the list of eligible students or opens registration form before any placement drive. It is mandatory for all the registered students to attend the drive, skipping the drive without prior written

information will be considered as a Level 1 offence and student will be awarded one black dot

☞ Usage of cell phones/laptops, ringing of cell phones, talking or walking out during the PPT is prohibited

☞ Students are advised to strictly follow the schedule of the placement drives; students reporting late will be sent back and will not be allowed to attend the drive

☞ Students are advised to be present at seminar Hall/Auditorium during the announcement of short listing for the next round, failing to do the same without prior information; the student will not be considered for the next round

☞ Once the student has attended the first round and is shortlisted for further rounds, he/she is advised to appear for all the remaining rounds of recruitment process. Students found unavailable from the venue without prior information and permission will be considered as Level 2 offender and will be awarded two black dots

☞ Students are advised to maintain the highest level of decorum and discipline during on/off campus.

☞ Placement activities, if any student is found causing indiscipline or misbehaving with Company staff/CRC staff/student coordinators/participating students; he/she will be treated as a defaulter and black dot/s will be awarded according to level of misconduct

- ✦ In case a student gets one black-dot as punishment by the CRC and the same student gets one more black-dot for any other disciplinary action, then in this case, the number of black-dots will be added for that particular student which will be two black-dots
- ✦ Black dots will not be removed in any case, even if the student has faced the punishment. Black dots will always be carried forward
- ✦ Students are advised to follow prescribed dress code before attending any recruitment drive; students not found in desired dress code will be sent back from the venue and will not be allowed to attend the drive.

Explanation of Black dots

Level of offence	Black Dot Award	Result
Level 1	Black Dot 1 (*)	Rs. 500 fine
Level 2	Black Dot 2 (**)	Rs. 500 fine +Warning letter
Level 3	Black Dot 3 (***)	Rs. 1000 Fine and Debarred from next 2 companies
Level 4	Black Dot 4 (****)	Rs. 1000 fine and Debarred from next 3 companies. Debarred from placements for the entire session

Any concern or query regarding placement process can be asked from CRC help desk between **3:00 PM to 4:00 PM (Monday to Friday)**

UNDERTAKING ANNEXURE-2

 MANAV RACHNA UNIVERSITY Established as State Private University vide Notification No. 20 of 2014	UNDERTAKING
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I..... Roll No.

Student of Branch..... hereby
undertake that, I am not interested to appear in any campus
placement drive. I want to pursue higher studies/ Entrepreneurship/
Others and will submit the document proofs to CRC as when
available.

If others, please specify -----

-----.

Counter verified by faculty placement coordinator with Signature

Signature of the Student

Name: _____ Dept. : _____

 MANAV RACHNA UNIVERSITY Established in 2004 (Formerly Manav Rachna Institute of Management)		RECRUITER'S FEEDBACK FORM ACADEMIC YEAR: JULY 20__JUNE 20	
Branch		Date	
Name		Designation	
Organisation			
e-mail ID		Phone #	
Note: Your valuable opinions and suggestions are solicited for further improvement of the Manav Rachna Academic system.			

1. Recruiter Feedback Form

Please rate the following parameters on a scale of 1 to 5 by ticking (☐) in the appropriate box. **Consider 5- Excellent, 4-Very good, 3-Good, 2 - Average and 1- Poor.**

Parameters	5	4	3	2	1
Aptness of university curriculum for the present job					
Relevance of courses taught in terms of futuristic technologies					
Technical and soft skills acquired for multidisciplinary real- life situations					
Balance between theory and lab-based courses					
Aptness of training / projects & research work undertaken					
Competence in critical thinking, problem solving and creativity acquired through curriculum					

Slice of industry component / interaction in curriculum					
Team Spirit & leadership skills					
Relationship with seniors/peers/subordinates					
Infrastructure Facilities (Labs/Library/Sports Facilities)					
Discipline					

Suggestion for bridging industry-academia gap for empowering students' job readiness

Reasons for recruiting students from Manav Rachna

Signature		Date	
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2. Student Quarterly Feedback

ANNEXURE-4

 MANAV RACHNA UNIVERSITY Established as Manav Rachna University under the UPEA Act 2009	STUDENTS' QUARTERLY FEEDBACK FORM		
Name		Roll no.	
Program/ Branch		Batch	
Company Name		Designation	
Contact No.		E-mail	

We solicit your valuable feedback for the scope of further improvements. Please specify your response by giving the rating between 1-5 (1-Average, 2- Satisfactory, 3-Good, 4-Very Good, 5-Excellent) (Pl. tick ☐ in the appropriate box).

S. No.	Parameters	5	4	3	2	1
1	How was your experience with Superset?					
2	Timely communications and support from placement cell during campus placement?					
3	How effective the aptitude training was?					
4	How effective the technical training was?					
5	How effective the aptitude tests were?					
6	Relevance of course curriculum in terms of campus placements					
7	Job satisfaction					
Signature		Date				

3. Student Joining Feedback

ANNEXURE- 5

 MANAV RACHNA UNIVERSITY Deemed to be University by the Ministry of Education, Government of India	STUDENT'S JOINING FEEDBACK FORM
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Name		Roll no.	
Program/Branch		Batch	
Company Name		Designation	
Contact No.		E-mail	
Date of joining		Location	

Please give your rating for the following regarding joining in the company about the employer on a scale of 1-5 with 5- Strongly agree, 4- Agree, 3- No answer, 2-Disagree, 1- Strongly disagree (Pl. tick ☐ in the appropriate box).

S. No.	Parameters	5	4	3	2	1
1	On boarding process was smooth					
2	Company has a positive work environment					
3	Salary on time					
4	Company policies & process are employee friendly					
5	Company training & development programs have been designed as per the employee overall growth					

6	Company has good future growth prospects					
7	Job satisfaction					
I would like to give the following feedback, opinion and suggestion for improvement of Campus placements.						
Signature				Date		

Employer/Industry Feedback

ANNEXURE- 6

 MANAV RACHNA UNIVERSITY Deposited in Bank of India, University vide Registration No. 23 of 2014	EMPLOYER/ INDUSTRY FEEDBACK FORM
Dear Employer, We express gratitude to you for providing our students, valuable employment opportunities at your prestigious organization. We shall be grateful to you if you spare some of your valuable time to fill-up this feedback form. It will help us to improve the learning opportunities further and give you ever better employees in future.	
Name	
Organization	

Please rate the student against the parameters on a scale of 1-5 with 5- excellent, 4- good, 3- Above average, 2- Average and 1- Unsatisfactory by ticking ☐ in the appropriate box.

Reasons for Recruiting students from MR (Please tick ☐)

1. Content Knowledge	2. Analytical Skills		
3. Communicative Competence	4. Quality Relevance of Program to institutional needs		
5. Academic Excellence (CGPA)	6. Reputation / Goodwill		

S.N	Assessment Parameter	5	4	3	2	1
1	Ability to learn and make use of learning opportunities					
2	Ability to contribute to the goal of the organization					
3	Initiative taking ability					
4	Quality of work					
5	Technical Knowledge /Skills					
6	Ability to take up being proactive responsibility / work beyond hours					
7	Interest and motivation					
8	Relationship with seniors/peers/subordinates					
9	Involvement in social activities					

Percentage of placement of outgoing students						
Sr. No.	Roll No.	Name of student placed	Program graduated from	Name of the employer	Pay package at appointment	Link of attached documents
Total percentage of placed students=						
Submit supporting valid documents						
Signature				Date		
Designation						

Details of Placements, Entrepreneurship & Higher Studies

ANNEXURE- 7

Details of recently graduated students who have progressed for Entrepreneurship (previous graduating batch)				
Name of student enrolling into Entrepreneurship	Program graduated from	Name of institution organization	GST / Registration Number	Link to the relevant documents

ANNEXURE - 8

ANNEXURE - 9

Percentage of recently graduated students who have progressed to higher education (previous graduating batch)				
Name of student enrolling into higher education	Program graduated from	Name of institution joined	Name of programme admitted to	Link to the relevant documents

4.2 TOP RECRUITERS

LIST OF TOP RECRUITING COMPANIES

The top recruiting companies (on the basis of salary offered and number of students placed), visited our campus for placement in 2023-24 are mentioned below:

4.2.1

S. No.	Company Name (On the Basis of Salary)	Average INR/ Annum	S. No.	Company Name (On the basis of number of students placed)	Number of students placed
1	Salesforce	45.00 LPA	1	Coforge	17
2	Commvault	34.00 LPA	2	Accenture	6
3	Ex-Squared Solutions	9.00 LPA	3	Planet Spark	6
4	British Telecom	8.92 LPA	4	QSS Technosoft	4
5	Dreamfolks Services	8.00 LPA	5	AVIZVA	4
6	LumiQ	8.00 LPA	6	British Telecom	4
7	QSS Technosoft	7.20 LPA	7	Crowe Horwath IT Services LLP	2
8	DeltaX	7.00 LPA	8	Ex-Squared Solutions	2

4.2.2

9	AVIZVA	7.00 LPA	9	Dreamfolks Services	2
10	Planet Spark	6.50 LPA			

4.3 School-wise Placement Statistics and Analysis

4.3.1 Statistics of placements across various Schools

Number of students placed & percentage of students placed

Engineering

School	Courses	Placemen t Proof	Higher Studies	Family/ self- employed	Total	% with total Strength
School of Engineering	CST	67	3	4	74	37
	MECH	2	0	0	2	25
	ECE	0	0	0	0	0
	M.TECH. MECH	1	0	0	1	100
	Total	70	3	4	77	35.98

Non-Engineering

School	Courses	Placemen t Proof	Higher Studies	Family/self - employed	Total	% with total Strength
School of Law	LAW	1	0	0	1	1.51
School of Management & Commerce	BBA	12	0	6	17	19.1
School of Education & Humanities	B.Ed	1	0	5	6	9.37
School of Sciences	M.Sc CHEMISTRY	3	0	3	6	37.5
	Total	16	0	14	30	11.71

Item	2023-2024	2022-2023
Total No. of Final Year Students (N)	207	225
No. of students placed in companies or Government Sector (x)	76	191
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level Tests, GRE, GMAT etc.) (y)	4	7
No. of students turned entrepreneur in engineering/technology (z)	0	2
$x + y + z =$	80	200
Percentage	38.6	88.8

School-wise placement statistics & analysis comparison with previous years School of Engineering

Mechanical Engineering

Item	2023-2024	2022-2023
Total No. of Final Year Students (N)	8	26
No. of students placed in companies or Government Sector (x)	2	18
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level Tests, GRE, GMAT etc.) (y)	NIL	3
No. of students turned entrepreneur in engineering/technology (z)	NIL	2
$x + y + z =$	2	23
Percentage	25	88.4

Electronics & Communication Engineering

Item	2023-2024	2022-2023
Total No. of Final Year Students (N)	5	11

No. of students placed in companies or Government Sector (x)	NIL	5
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level Tests, GRE, GMAT etc.) (y)	NIL	1
No. of students turned entrepreneur in engineering/technology (z)	NIL	3
$x + y + z =$	0	9
Percentage	0	81.8

School of Law

Item	2023-2024	2022-2023
Total No. of Final Year Students (N)	66	67
No. of students placed in companies or Government Sector (x)	1	6
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level Tests, GRE, GMAT etc.) (y)	NIL	10
No. of students turned entrepreneur in engineering/technology (z)	NIL	19
$x + y + z =$	1	35
Percentage	1.5	52.2

School of Management & Commerce

Item	2023-2024	2022-2023
Total No. of Final Year Students (N)	89	60
No. of students placed in companies or Government Sector (x)	11	21
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level Tests, GRE, GMAT etc.) (y)	NIL	16
No. of students turned entrepreneur in engineering/technology (z)	6	7
$x + y + z =$	17	44
Percentage	19.1	73.3

School of Education & Humanities

Item	2023-2024	2022-2023
Total No. of Final Year Students (N)	64	87
No. of students placed in companies or Government Sector (x)	1	29
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level Tests, GRE, GMAT etc.) (y)	NIL	28
No. of students turned entrepreneur in engineering/technology (z)	5	1
$x + y + z =$	6	58
Percentage	9.3	66.6

School of Sciences

Physics

Item	2023-2024	2022-2023
Total No. of Final Year Students (N)	6	13
No. of students placed in companies or Government Sector (x)	NIL	4
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level Tests, GRE, GMAT etc.) (y)	NIL	5
No. of students turned entrepreneur in engineering/technology (z)	NIL	0
$x + y + z =$	0	9
Percentage	0	69.2

Chemistry

Item	2023-2024	2022-2023
Total No. of Final Year Students (N)	16	19
No. of students placed in companies or Government Sector (x)	3	6
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level Tests, GRE, GMAT etc.) (y)	NIL	11
No. of students turned entrepreneur in engineering/technology (z)	3	NIL
$x + y + z =$	6	17
Percentage	37.5	89.4

Mathematics

Item	2023-2024	2022-2023
Total No. of Final Year Students (N)	14	13
No. of students placed in companies or Government Sector (x)	NIL	4
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level Tests, GRE, GMAT etc.) (y)	NIL	1
No. of students turned entrepreneur in engineering/technology (z)	NIL	1
$x + y + z =$	0	6
Percentage	0	46.1

4.4 Summer Trainings/Internships

4.4.1 Overview of Internship opportunities

Internship opportunities offered by corporates for university students provide valuable real-world experience. These internships are generally designed to complement academic-learning with practical exposure, often lasting around six months.

They help students develop key skills, such as problem-solving, communication, and teamwork, which are crucial for career success. Internships also offer insights into industry-specific practices, allowing students to explore different career paths and clarify their professional goals. Additionally internships enable students to build professional networks, gain valuable references, and improve their resumes, ultimately increasing their employability and readiness for full-time roles after graduation.

4.5 Feedback from Employers

4.5.1 Refer to **Annexure-1** for Feedback from recruiting companies

4.5.2 Areas of Improvement suggested by employers

Overview of Feedback received from Employers

Feedback from employers is crucial for various reasons, particularly when it comes to shaping educational and professional development. Below mentioned is the overview of feedback received by the employers:

1. **Assessment of Skills & Knowledge:** Employers provided insights of the skills that need to be improvised in order to align with industry needs
2. **Knowledge Depth:** Recruiters highlighted the areas where individuals need deeper understanding
3. **Project Exposure:** They suggested pursuing projects which are relevant to current industry trends and will enhance their portfolios and skillsets
4. **Problem-Solving Skills:** They advised on enhancing problem-solving skills

4.6 Student Testimonials

4.6.1 Experiences and Feedback from Students who got placed

1. Tuhin Tarafder, Roll no. 2K20CSUN04051, B.Tech. Computer Science and Engineering - Artificial Intelligence and Machine Learning, Placed in **Commvault** at a Package of **32.99**

I want to take a moment to express my deep gratitude to Manav Rachna University, the CST Department for providing me with the knowledge, skills, and support that have prepared me for this incredible journey. I also want to extend my heartfelt thanks to my professors, mentors, and peers who have guided and inspired me along the way. Your wisdom and encouragement have been invaluable. To my family and friends, your unwavering belief in me has fuelled my determination, and I am thankful beyond words.

2. Simar Jyot Singh Narang, Roll. No. 2K20CSUN04047, B.Tech. Computer Science and Engineering - Artificial Intelligence and Machine Learning, Placed in **British Telecom** at **9 LPA**

I am grateful to the University for shaping my career and preparing me for the future. I would like to thank my great teachers and mentors for their constant support and guidance throughout my academic journey, providing me platforms like IEEE to explore my capabilities and expand my horizon. I would also like to thank my friends, peers and rivals alike, for pushing me to always be a better version of myself. I'm thankful to British Telecom for giving me this wonderful opportunity to work with them. I am looking forward to starting my professional journey with them soon.

3. Tannu Sangwan, Roll no. 2K20CSUN01108, B.Tech. Computer Science and Engineering - B.Tech, Placed in **British Telecom** at **8.92 LPA**

I want to express my heartfelt gratitude for the outstanding opportunity that the university has facilitated through campus placements. Department's unwavering guidance and support have been instrumental in securing this placement offer, and I extend my special thanks to Mr. Manoj Kumar, Ms. Hanu Bhardwaj, and Ms. Mamta Arora for their invaluable mentorship. Your collective efforts have not only opened doors but have also shaped my future in a profound way, and I am thankful for the department's pivotal role in this journey.

4. Abhay Parashar, Roll no. 2K20CSUN05001, B.Tech. Computer Science and Engineering (Cyber Security & Threat Intelligence), Placed in **Lumiq.AI** at a package of **8 LPA**

I am extremely grateful to my mentors, professors, peers and university for this offer.

CDC's initiative-- Bootcamp was the headstart to my preparation journey. It gave me the right direction and confidence. My professors at MRU always motivated us to learn about latest developments and unconventional domains within computer science and technology, making students aware of current industry requirements. University played a crucial role, by providing us ample of opportunities to get good jobs, arranging interviews and coordinating everything so well. Thank you everyone at Manav Rachna Educational Institutions for helping me to get placed.

5. Manya Bhardwaj, Roll no. 2K20CSUN01066, B.Tech. Computer Science and Engineering - B.Tech, Placed in **Avizva Solutions** at **7 LPA**

I am profoundly grateful to Manav Rachna University for the invaluable placement offer. Their unwavering support, outstanding guidance, and commitment to my academic and professional development have been instrumental in shaping my success.

6. Gracy Singh, Roll no. 2K20CSUN01037, B.Tech. Computer Science and Engineering - B.Tech, Placed in **Avizva Solutions** at **7 LPA**

I want to express my heartfelt gratitude to the university, my teacher, and the department for offering me this amazing placement opportunity. Their support and guidance have played a crucial role in shaping my academic and professional path.

7. Vikas Raghav, Roll no. 2K20CSUN01122, B.Tech. Computer Science and Engineering - B.Tech, Placed in **Planet Spark** at a package of **6.5 LPA**

I am immensely grateful to my university for the placement offer. Their guidance and support have been invaluable in preparing me for this opportunity.

8. Atharva A Shukla, Roll no. 2K20CSUN01017, B.Tech, Computer Science and Engineering - B.Tech, Placed in Crowe Horwath IT Services, at a package of 6 LPA

I am deeply grateful to Manav Rachna University for playing a pivotal role in my journey to securing a placement at Crowe Horwath. The guidance and support provided by the Placement Cell were instrumental in this achievement. Their dedication to nurturing talent and connecting students with the right opportunities made all the difference. I am proud to be an alumnus of such an esteemed institution.

Date: 25/8/22

 **MANAV RACHNA**
UNIVERSITY

Recruiter's Feedback Form

Academic Year (July 2023 - June 2024)

Branch:

Name: Atharva A Shukla Designation:

Organization: MINPLEA / TAYLOR

Note: Your valuable opinions and suggestions are solicited for further improvement of the Manav Rachna Academic system.

Please rate the following

	Excellent	Very Good	Good	Average
Aptness of university curriculum for the present job				✓
Relevance of courses taught in terms of futuristic technologies				✓
Technical and soft skills acquired for multidisciplinary real life situations				✓
Balance between theory and lab based courses				✓
Aptness of training / projects & research work undertaken				✓
Competence in critical thinking, problem solving and creativity acquired through curriculum				✓
Slip of industry component / interaction in curriculum				✓
Team Spirit & leadership skills			✓	
Relationship with seniors/peers/subordinates			✓	
Infrastructure Facilities (Labs/Library/Sports Facilities)		✓		
Discipline			✓	

Suggestion for bridging industry-academia gap for empowering students' job readiness

1) Depth of knowledge can be enhanced. Students know things from high level but not in depth. 2) Good interview manner but unfortunately limited or no real projects exposure

Reasons for recruiting students from Manav Rachna

— Location

— Brand Name

Signature: Atharva A Shukla

Date: 6/9/23



Recruiter's Feedback Form

Academic Year (July 2023 - June 2024)

Branch:

Name: VAIBHAV GOEL Designation: Sr. DATA SCIENTIST

Organization: EX-SQUARED

Note: Your valuable opinions and suggestions are solicited for further improvement of the Manav Rachna Academic system.

Please rate the following

	Excellent	Very Good	Good	Average
Aptness of university curriculum for the present job		✓		
Relevance of courses taught in terms of futuristic technologies		✓		
Technical and soft skills acquired for multidisciplinary real life situations			✓	
Balance between theory and lab based courses			✓	
Aptness of training / projects & research work undertaken			✓	
Competence in critical thinking, problem solving and creativity acquired through curriculum			✓	
Slip of industry component / interaction in curriculum		✓		
Team Spirit & leadership skills		✓		
Relationship with seniors/peers/subordinates		✓		
Infrastructure Facilities (Labs/Library/Sports Facilities)	✓			
Discipline	✓			

Suggestion for bridging industry-academia gap for empowering students' job readiness

PRACTICAL KNOWLEDGE OF what is taught

Reasons for recruiting students from Manav Rachna

Good experience with previous hired interns & Employees.

Signature: *Vaibhav*



CORPORATE RESOURCE CENTRE (CRC)

Company Name- Blue Pi Branch Gurgaon

Name: Davender Singh

Designation: SR. manager Recruitment

Email Id: davender.singh@bluepi.in

Please share your experience with Manav Rachna Educational Institutions, Faridabad.

- Quality of students - Below Avg.
- Communication of students - Below Avg.
- Energy levels - Below Avg.
- Infrastructure - Below Avg.
- Washrooms - Dirty and far away
- Internet - very poor
- Placement team - Good
- Food - good

Date: 8/02/2024

Signature [Signature]



CORPORATE RESOURCE CENTRE (CRC)

Company Name- Bluepi Branch

Name: VARUN TIWARI

Designation: People Business Partner

Email Id: varun@bluepi.in

Please share your experience with Manav Rachna Educational Institutions, Faridabad.

It was an average kind of experience as the
students were not so prepared and I feel there
communication was below average.

Date:

Signature

CHAPTER: 5

FACULTY ACHIEVEMENTS AND CONTRIBUTIONS

Chapter 5: Faculty Achievements and Contributions (Dr. Urmila)

Sr. No.	Faculty Achievements and Contributions	Page No.
5.1	Faculty Certifications and awards	
5.2	Conferences Organized and Attended	
5.3	E-Content developed	
5.4	FDPs, Webinar, and Workshops organized by the Departments for faculty	
5.5	Expert Talk delivered by faculty	

5. 1 Faculty Certifications and Awards

Faculty Certifications and Awards are highly essential in higher educational institutions to ensure the continuous improvement, recognition, and motivation of faculty members. These certifications and awards play an important role in enhancing teaching quality, professional development, and contributing to the overall success of educational institutions and the society.

Faculty certifications and awards are essential for nurturing a culture of continuous professional development, recognizing excellence and improving teaching-learning quality. These certifications and awards are not only benefit the individual faculty members by enhancing their teaching-learning skills and career opportunities but also contribute to the institution's overall reputation and the success of its students. These recognitions not only give name and fame but also encourages innovation, maintain subject expertise, and endorse an academic atmosphere that values growth, excellence, and achievement.

Name of teacher who received Certification/Award	Title of the Certification/Award	Duration (from – to) (DD-MM-YYYY)
Dr. S.K. Bose	Best Edited Book Award 2024 for book "Research Method and Legal Writing: A Handbook for LL.M and PhD Scholars" by higher education excellence award (HEEA 2024)	23-06-2024

Dr. Prashant Bhardwaj	Best Paper Award in SOLARISIS 2024(International Conference on Energy, Ecology and Environment)	02-09-2024
Dr. Yogita Sharma	Shiksha Ratan Samman award by Amity University, Mohali	10-01-2023
Dr. Yogita Sharma	Certificate of Appreciation for outstanding contribution as convenor in 34th chapter on Convention on quality concepts	21-10-23
Mr. Maharaj Krishen Koul	'□□□□□ of Excellence' - CDC Rewards & Recognition by CDC, MRU, Faridabad	31-10-2023
Dr. Pragati	Karmasyu Kaushalam Award - Best Teacher of the Year Award by MRU, Faridabad	09.11.2023
Mr. Neeraj Chopra	Best research paper recognition in G20 India : Vasudhev Kutumbkam by JCBUST, Faridabad	05-10-2023 to 06-10-2023
Dr. Shalu Singh	Best India Research Award 2023	10-06-2023
Dr. Mrinal pandey	Best paper Award for paper titled " An evaluation of Machine Learning techniques for personality classification on Innovating computing and communication ICICC 2024, at NIT, Patna	16-02-2024 to 17-02-2024
Dr. Mrinal Pandey	Intellectual Property Right Conclerve-2024 "BNMIT Research Excellence Award" by B. N.M. Institute of Technology.	14-03-2024 to 15-03-2024
Dr. S.K. Bose	"Humanitarian Excellence Award" with India's most inspiring changemakers, Jaipur, India.	15-08-2023
Dr. Tarundeep Kaur	Best Paper Award in Educational TechnologyENTENTE2023 held at NIIT University, Neemrana, Rajsthan.	30-11-2023 to 02-12-2023
Dr. S.K. Bose	"Indian Prime Icon Award" for best International Criminal Law Expert and Consltant for year 2023	17-07-2023
Mr. Ram Chatterjee	Certificate of Appreciation for mentor in NPTEL Local Chapter for Privacy and Security in Online Social Media Course	Jan-April 2024
Ms. Esha Khanna	Certificate of Appreciation as Top Performing mentor in NPTEL Online Certification course for "Programming, Data structures and Algorithms using Python" Jan-Apr 2024	Jan-April 2024
Dr. Shalu	Certificate of Appreciation for mentor in NPTEL Local Chapter for the IP Management and Technology Transfer Course	Jan-April 2024
Dr. Mamta Arora	Certificate of Appreciation for mentor in NPTEL Local Chapter for Data Analytics with Python	Jan-April 2024
Mr. Anup	Certificate of Appreciation for mentor in NPTEL Local Chapter for CLOUD COMPUTING	Jan-April 2024
Dr. Urmila	Session Chair at "2024 3rd International Conference on Advanced Communication and Intelligent Systems (ICACIS-2024)" organized on May 16-17, 2024 at Jawaharlal Nehru University, New Delhi, India.	16-05-2024 to 17-05-2024

Dr. Manoj	Session Chair at "2024 3rd International Conference on Advanced Communication and Intelligent Systems (ICACIS-2024)" organized on May 16-17, 2024 at Jawaharlal Nehru University, New Delhi, India.	16-05-2024 to 17-05-2024
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Sample Award Certificate

PSM राष्ट्रीय शिक्षा रत्न सम्मान 2022-23

Organized by: **PRITHVI अभ्युदय EDUCATORS ASSOCIATION-INDIA (PAAI)**

NGO Reg. No. U85300HP2022NPLO09741

Amity University (AU), Mohali-Punjab

AMITY UNIVERSITY
PUNJAB

Venue Partner:

Proud Awardee
Dr. Yogita Sharma
Educator and Mentor
Manav Rachna University

"Touching Hearts, Empowering Educators"- PAAI

Our Partners:-

**SUNDAY
OCTOBER 01,
2023**

10:00AM-06:00PM

7018971969, 8894620044
psm.srs21@gmail.com
<https://www.paaindia.in>

Venue:-
Amity University (AU)
Sector 82 A, IT City Rd, Block D,
Sahibzada Ajit Singh Nagar, Punjab

Organiser:-
DR. HARSHWARDHDHAN SINGH
FOUNDER CHAIRMAN
PRITHVI अभ्युदय EDUCATORS ASSOCIATION-INDIA (PAAI)

"शिक्षा के साथ संस्कार नहीं संस्कार के साथ शिक्षा आवश्यक है।"-PAAI

Our Partners:-

Amity University (AU)
Sector 82 A, IT City Rd, Block D,
Sahibzada Ajit Singh Nagar, Punjab

5.2 Conferences Organized and Attended

Conferences play important role in improving the profile of faculty members. Conferences provide platform for professional growth, showcasing research, and enhance network. By attending and organizing the conferences faculty could share their research on broader level. The faculty can gain visibility and recognition for their research contributions. By attending, participating in panel discussion, chairing sessions, and presenting their work faculty members get in touch with new trends and technologies. Organizing conferences at university may result in good collaboration with other institutions. Conferences also built network with scholars and students gaining exposure of new innovations. It provides interdisciplinary exposure to students as well as teachers.

Name of the teacher	Name of conference/ workshop attended for which financial support provided
Urmila Pilonia	6th International Conference on "Contemporary Computing and Informatics (IC3I-2023)" to be held at Amity University, Greater Noida between 14th-16th Sept., 2023.
Shalu	5th International Conference on "Advances in Computing, Communication Control and Networking (ICAC3N)" to be held at Galgotias College of Engineering and Technology, Greater Noida between 15th & 16th December, 2023.
Shalu	5th International Conference on "Advances in Computing, Communication Control and Networking (ICAC3N)" to be held at Galgotias College of Engineering and Technology, Greater Noida between 15th & 16th December, 2023.
Shalu	5th International Conference on "Advances in Computing, Communication Control and Networking (ICAC3N)" to be held at Galgotias College of Engineering and Technology, Greater Noida between 15th & 16th December, 2023.
Dinesh Kumar Sharma	3rd International Conference on "Plasma Theory & Simulations (PTS-2023)" to be held at Jawaharlal Nehru University (JNU) between 21 st to 23rd September, 2023.
Shalu	5th International Conference on "Advances in Computing, Communication Control and Networking (ICAC3N)" to be held at Galgotias College of Engineering and Technology, Greater Noida between 15th & 16th December, 2023.
Moditma	Conference cum Workshop on "Effective Teaching" to be held at Birla Institute of Technology & Science (BITS), Pilani between 30th – 31st July, 2023.
Manoj Kumar	3rd International Conference on "Advancement in Electronics & Communication Engineering AECE-2023" between 23rd-24th November, 2023 at Raj Kumar Goel Institute of Technology,

	Ghaziabad.
Mamta Arora	International Conference on "Machine Intelligence for Research & Innovation" at Dr. B. K. Ambedkar, N.I.T., Jalandhar between 1 st to 3rd Sept., 2023.
Manoj Kumar	3rd International Conference on "Advancement in Electronics & Communication Engineering (AECE-2023)" to be held at R.K., GIT, Ghaziabad between 23rd to 24th November, 2023.
Mamta Arora	International Conference on "Recent Advances in Science & Engineering (RAISE-2023)" to be held at Manipal Institute of Technology (MAHE), Manipal between 4th-5th October, 2023.
Anjali Sharma, Project Associate-I Physics Deptt.	International Conference on "Energy Materials & Rechargeable Batteries (ICEMRB-2023)" at Manav Rachna University, Faridabad between 19th – 22nd December, 2023.
Jitendra Pal Singh, Ramanujan Fellow Physics Deptt.	International Conference on "Energy Materials & Rechargeable Batteries (ICEMRB-2023)" at Manav Rachna University, Faridabad between 19th to 22nd December, 2023. The above registration amount may be sanctioned from Ramanujan Fellow Project Grant.
Urmila Pilonia	International Conference on "Self-Sustainable Artificial Intelligence Systems (ICSSAS 2023)" to be held at M.P.Nachimuthu M. Jaganathan Engineering College, Tamil Nadu between 18th to 20th October, 2023.
Shalu	International Conference on "Artificial Intelligence in Education and Industry 4.0" (IDICAIEI) to be organized by Datta Meghe Institute of Higher Education and Research (Deemed to be University), Sawangi (Meghe), Wardha-442107, Maharashtra between 27th & 28th November, 2023.
Shalu	International Conference on "Artificial Intelligence and Information Technologies (ICAIT 2023)" to be held at Samarkand State University, Uzbekistan between 3rd & 4th November, 2023.
Shalu	International Conference on "Artificial Intelligence and Information Technologies (ICAIT 2023)" to be held at Samarkand State University, Uzbekistan between 3rd & 4th November, 2023.
Shalu	International Conference on "Artificial Intelligence and Information Technologies (ICAIT 2023)" to be held at Samarkand State University, Uzbekistan between 3rd & 4th November, 2023.
Shalu	International Conference on "Artificial Intelligence and Information Technologies (ICAIT 2023)" to be held at Samarkand State University, Uzbekistan between 3rd & 4th November, 2023.

Mrinal Pandey	International Conference on "Evolutionary Computing and Mobile Sustainable Networks (ICECMSN 2023)" at Hindustan Institute of Technology, Coimbatore, Tamil Nadu between 9th to 10th November, 2023.
Mrinal Pandey	10th IEEE UP Section International Conference on "Electrical, Electronics and Computer Engineering (UPCON-2023)" to be held at Amity University, Greater Noida between 1st to 3rd December, 2023.
Dinesh Kumar Sharma	28th International Conference on "Nuclear Tracks and Radiation Measurements 28th ICNTRM-2023)" to be held at Guru Gobind Singh Indraprastha University, New Delhi between 6th to 10th November, 2023.
Sanjay Singh	International Conference on "Electrical, Electronics and Computer Engineering (UPCON-2023)" to be held at Amity University, Greater Noida between 1st to 3rd December, 2023.
Manoj Kumar	3rd International Conference on "Evolutionary Computing and Mobile Sustainable Networks (ICECMSN 2023)" to be held at Hindustan Institute of Technology in Coimbatore, Tamil Nadu between 9th to 10th November, 2023.
Urmila Pilonia	2nd International Conference on "Automation, Computing and Renewable Systems (ICACRS 2023)" to be held at Mount Zion, College of Engineering & Technology, Pudukkottai, Tamil Nadu between 11th to 13th December, 2023.
Urmila Pilonia	2nd International Conference on "Advancements in Smart Computing and Information Security (ASCIS 2023)" to be held at Marwadi University, Gujarat between 8th to 9th December, 2023.
Urmila Pilonia	2nd International Conference on "Advancements in Smart Computing and Information Security (ASCIS 2023)" to be held at Marwadi University, Gujarat between 8th to 9th December, 2023.
Neelu Choudhary	10th IEEE UP Section International Conference on "Electrical, Electronics and Computer Engineering (UPCON-2023)" to be held at Amity University, Greater Noida between 1st to 3rd December, 2023.
Charu Pathak	International Conference on "Emerging Materials, Smart Manufacturing & Computational Intelligence (ICEMSMCI-2023)" to be held at Chitkara University, Punjab between 7th to 8th December, 2023.
Mrinal Pandey	10th IEEE UP Section International Conference on "Electrical, Electronics and Computer Engineering" to be held at Amity University, Greater Noida between 1st to 3rd December, 2023.
Mrinal Pandey	10th IEEE UP Section International Conference on "Electrical, Electronics and Computer Engineering" to be held at Amity University, Greater Noida between 1st to 3rd December, 2023.

Mrinal Pandey	International Conference on "Innovative Computing and Communication (ICICC-2024)" to be held at Shaheed Sukhdev College of Business Studies, University of Delhi, New Delhi between 16th – 17th February, 2024.
Ram Chatterjee	International Conference "Innovative Data Communication Technologies and Application (ICIDCA-2024)" to be held at RVS College of Engineering & Technology, Coimbatore, India from 10th to 11th January, 2024.
Chaitali Wadhwa, Shaharyar Asaf Khan	International Conference on "Trade and Investment Law: Legal and Economic Perspectives" to be held at Bennett University, Greater Noida on 1st December, 2023.
Mamta Arora	IEEE 3rd International Conference on Innovation in Technology (INOCON) to be held in Sai Vidya Institute of Technology, Bangluru, Karnataka between 1st -3rd March, 2023.
Prinima Gupta	International Conference on "Machine Learning and Data Engineering" to be held at UPES, Dehradun from 23rd to 24th November, 2023.
Dr. Manoj Kuma	International Conference on "Innovative Data Communication Technologies & Application (ICIDCA 2024)" to held at RVS College of Engineering & Technology, Coimbatore from 10th-11th January, 2024.
Mrinal Pandey	International Conference on "Advances and Applications of Artificial Intelligence and Machine Learning (ICAAAIML 2023)" to be held at Sharda University, Greater Noida from 28th – 29th December, 2024.
Mamta Arora	International Conference on "Innovative Computing and Communication (ICICC-2024)" to be held at Shaheed Sukhdev College of Business Studies, University of Delhi, New Delhi from 16th – 17th February, 2024.
Narender	International Conference on "Advances in Electrical, Computing, Communications and Sustainable Technologies (ICAECT 2024)" to be held at Bhilai, Chhattisgarh from 11th to 12th January, 2024.
Joginder Singh	International Conference on "Emerging Materials, Smart Manufacturing & Computational Intelligence (ICEMSMCI-2023)" being held at Chitkara University, Punjab from 7th-8th Dec., 2023.
Dr. Mamta Arora	International Conference on "Innovative Computing and Communication (ICICC-2024)" to be held at Shaheed Sukhdev College of Business Studies, University of Delhi, New Delhi from 16th – 17th February, 2024.
Pradeep Kumar Mouria	International Conference on "Advancement in Material, Manufacturing and Industrial Applications (ICAMMIA-2023)" being held at Meerut Institute of Engineering and Technology, Meerut from 26th-27th October, 2023.
Mamta Kaushik	26th International Symposium, Electronic Theses and Dissertations (ETD) Symposium 2023 being held at Gandhinagar, Gujarat from 26th-28th October, 2023.

Meena Chaudhary	International Conference on "Computing, Power, and Communication Technologies (IC2PCT-2024)" to be held at Galgotias University, Noida from 9th – 10th February, 2024.
Meena Chaudhary	International Conference on "Computing, Power, and Communication Technologies (IC2PCT-2024)" to be held at Galgotias University, Noida from 9th – 10th February, 2024.
Mamta Arora	4th International Conference on "Smart Data Intelligence (ICSMDI-2024)" to be held at Kongunadu College of Engineering and Technology, Tamil Nadu, India from 2nd – 3rd February, 2024.
Sunil Kadyan	International Conference on "Global Business Transformation: Now Next and Beyond" to be held at Symbiosis Institute of Business Management, Hyderabad from 30th – 31st January, 2024.
Sampriti Phukan	International Conference on "Sustainability, Technology, Resilience, Innovation, Development and Entrepreneurship (Stride 2023)" to be held at The Northcap University, Gurugram from 14th – 16th December, 2023.
Yogita Sharma	International Conference on "Global Business Transformation: Now Next and Beyond" to be held at Symbiosis Institute of Business Management, Hyderabad from 30th – 31st January, 2024.
Nikita Mittal, Research Scholar, School of Sciences, Department of Mathematics	International Conference on "Analysis and its Applications (ICAA-2024)" to be held at Jamia Millia Islamia, Department of Mathematics, New Delhi from 19th – 21st January, 2024.
Prashant Bhardwaj	Conference on "SOLARIS-2024, Energy, Ecology & Environment" to be held at Jamia Millia Islamia, Department of Mathematics, New Delhi from 19th – 21st January, 2024.
Savita Sharma	Conference on "Mindfulness for Sustainable Business & Innovation" at IIM Bodh Gaya, Bihar on 9th and 10th February 2024
S.K Bose	2nd National Conference on "Legal Education, profession and intergrating pro bono culture for better access to justice" on 6th & 7th April'2024
Mandeep Bhadana	5th International Conference on Advances in Mechanical Engineering (ICAME 2022), organized by the Department of Mechanical Engineering, SRM Institute of Science and Technology, Kattankulathur during March 20-22, 2024.
Smriti Mishra	5th International Conference on Advances in Mechanical Engineering (ICAME 2022), organized by the Department of Mechanical Engineering, SRM Institute of Science and Technology, Kattankulathur during March 20-22, 2024.
Piyush Mahendru	5th International Conference on Advances in Mechanical Engineering (ICAME 2022), organized by the Department of Mechanical Engineering, SRM Institute of Science and Technology, Kattankulathur during March 20-22, 2024.

Gianender	5th International Conference on Advances in Mechanical Engineering (ICAME 2022), organized by the Department of Mechanical Engineering, SRM Institute of Science and Technology, Kattankulathur during March 20-22, 2024.
Urmila	2nd IEEE International Conference on Disruptive Technologies (ICDT - 2024)
Mamta Arora	5th International Conference on Computing, Communication and Cyber-Security (IC45'05)
Shalu	5th International Conference on Computing, Communication and Cyber Security (ICAS/05-2024)
Manoj	5th International Conference on Computing, Communication and Cyber-Security (IC45'05)
Gunjan Chandwani	International Conference on "Computing, Power, and Communication Technologies (IC2PCT-2024)" to be held at Galgotias University, Noida from 9th – 10th February, 2024.
Minakshi Sharma	International Conference on "Re-envisioning Sustainability and Technological Innovation in Manufacturing and service Industry (RASTMSI 2024)" Vedalya Institute, Gurugram on 8-9th February, 2024.
Meenakshi Gupta	International Conference on "Advanced Research in Engineering & Technology (ARET 2024)" hybrid mode between 24th-25th February 2024
Piyush Charan	IEEE International Conference on "Interdisciplinary Approaches in Technology and Management for Social Innovation (IATMSI-2024)" to be held at Atal Bihari Vajpayee Indian Institute of Information Technology and Management, Gwalior between 14th-16th March 2024
Sunil Kumar Kadyan	Global Business Transformation Conference held during between 30th-31st January 2024 at Symbiosis Institute of Business management, Hyderabad
Minakshi Sharma	International conference "Re-envisioning Agility, Sustainability and Technological innovation in manufacturing and service industry (RASTMI 2024) on 8th and 9th February 2024
Asmita Patel	8th International and 12th Biennial Conference of the Indian Society of Victimology organized by Rajiv Gandhi National University of Law
Chaitali Wadhwa	International Conference on "Trade and Investment Law: Legal and Economic Perspectives" to be held at Bennett University, Greater Noida
Yogita Sharma	Global Business Transformation Conference held during between 30th-31st January 2024 at Symbiosis Institute of Business Management, Hyderabad
Gianendra	16th International conference on Material Processing and Characterization

Department	Name of the Conferences Organised
Physics	International Conference on "Energy Materials and Rechargeable Batteries-2023", organised by Physics department, MRU, Faridabad on 19-12-2023 to 22-12-2023.

Sample Certificate



5.3 E-Content developed

The **need for E-Content creation** in education has become increasingly necessary due to various factors, including the shift toward digital learning era, the growing demand for personalized education, and the need to enhance engagement and accessibility of the contents. E-Content development for students by faculty members at Manav Rachna University (MRU) is focusing on creating digital learning materials as per the requirements of industry and academia to boost student learning and skill enhancement. The primary aim for the creation of E-Contents is to deliver educational content through online platforms/ICT in a structured and interactive manner. **E-Content** involves developing digital learning resources that are accessible, engaging, and aligned with educational goals. This type of content is designed to help students understand key concepts and apply knowledge in a digital learning environment. Faculty members from various departments/disciplines create digital content like video lectures, interactive modules, online textbooks, and multimedia presentations, to student's learning experiences. There are various E-content creation formats like text based contents, video lectures, podcasts and infographics.

Finally the need for **e-content creation** is driven by the evolving landscape of education and the increasing role of technology in teaching-learning. E-content empowers academicians to deliver more flexible, accessible, and engaging learning experiences that meet the needs of modern students. It also provides institutions with the tools to ensure continuity, quality, and efficiency in teaching and learning processes, preparing students for both academic success and future professional environments.

The few structured approach for the creation or developing E-Content for students by MRU faculty members are as follows:

- Needs Assessment
- Content Planning and Structuring
- Content Creation
- Technological Tools for Content Development
- Engagement and Interactivity
- Assessment & Feedback Mechanisms
- Monitoring and Evaluation
- Collaboration among Faculty

By focusing on these structures approaches, faculty members is creating an enriched e-learning environment for students, fostering better engagement, learning outcomes, and student satisfaction.

Name of Teacher who developed E-Content	Title of the E-Content Developed	Programme
Dr. Rashee Singh	Mentor to Ms. Lalita under Hub 'Education-4' of Open	Open Education for a Better World mentoring programme
Dr. Ritu Sharma	Mentor to Dr Rekha for the project title "Gauging emotional intelligence using a live interface" under Hub Education-2 for OE4BW 2023	Open Education for a Better World mentoring programme
Dr. Savita Sharma	Selected as mentor for the project under OER4BW project (UNESCO)	Open Education for a Better World mentoring programme
Dr. Savita Sharma	Selected as mentor-course on 'Storytelling as a Design Process'	Open Education for a Better World mentoring programme
Dr. Savita Sharma	Selected as mentor-course on 'Nutrition Essentials - A Blueprint for Healthy Living	Open Education for a Better World mentoring programme
Dr. Ritu Sharma	Selected as Mentor-course on Resilience in the Professional sphere of Educators	Open Education for a Better World mentoring programme
Dr. Rashee Singh	Selected as Mentor to Dr. Joyti Sehrawat in Hub-Education'- Open Education for Better World (OE4BW) 2024 initiative of UNESCO	Open Education for a Better World mentoring programme
Dr. Rashee Singh	Selected as a Co-Developer for the OE4BW 2023	Open Education for a Better World mentoring programme

Sample Certificate



5.4 FDPs, Webinar, and Workshops organized by the Departments for faculty

Faculty Development Programs (FDPs), webinars, seminars, and workshops are essential for the holistic growth and professional development of faculty. These programs play a crucial role in enhancing the teaching, research, and overall academic capabilities of the faculty. At Manav Rachna University (MRU), Faculty Development Programs (FDPs), Webinars, Seminars, and Workshops are commonly organized by various departments of the university to meet the personal and professional skills of faculty members and keep them updated with the latest trends in Teaching and Research. FDPs are organized to help the faculty members to improve their Teaching Skills, Research Methodologies, and knowledge of emerging technologies.

Dates (from-to) (DD-MM-YYYY)	Title of the professional/ administrative development program organized for the faculty
28-11-2023 to 02-12-2023	FDP on "Internet of Things" in association with ICT Academy and CST, MRU
12-12-2023 to 13-12-2023	Workshop on "Course Level Problem and Project based Learning: Design and implementation", organized by CST, MRU
21-08-2023 to 25-08-2023	FDP on "Sustainable Development Goals: Challenges and Opportunities", for faculty members organized by ME, MRU
12-02-2024 to 16-02-2024	FDP on "Wireless Networks" in association with NITTTR, Chandigarh and CST, MRU
09-10-2023 to 24-10-2023	FDP on 'Pedagogical Interventions In light of National Education Policy 2020', organized by Education department MRU, Faridabad
21-10-2023	Workshop on "Exploring Library Resources with Specific focus on Online data Bases and Remote Access Facility", organized by Library, MRU
20-11-2023 to 24-11-2023	STC-ICT on "Advanced Instructional Methods for Teaching-Learning" conducted by NITTTR, Chandigarh with Education department MRU, Faridabad
7-10-2023	Workshop on "Basics of Research and Paper Writing", organized by Education department MRU, Faridabad
04-12-2023 to 09-12-2023	FDP on "Research Methodology", conducted by Education department MRU, Faridabad
24-07-2023	Session on "Empowering Access and Utilization of EBSCO E-Books: Training Session for Enhanced User Experience", conducted by Library, MRU, Faridabad
24-07-2023	STC on "Scilab Programming for Beginners" conducted by Department of ECE, Faridabad in association with NITTTR, Chandigarh
20-05-2023	Workshop on "Team Building & Collaborative Associations" for faculty and Non-Teaching Staff conducted by SoMC, Faridabad
08-02-2024	Training session on "Using Plagiarism Detection Software Drillbit", organized by Library, MRU, Faridabad

24-01-2024	Workshop on "User Awareness Intellectual Property", organized by Library, MRU, Faridabad
15-09-2023	User awareness training program on IEEE CSDL Unlock your research potential with IEEE Xplore, conducted by Library, MRU, Faridabad
27-02-2024	FDP on "Research Methodology", organized by LAW department, MRU, Faridabad
18-03-2024 to 22-03-2024	STC on "Effective Curriculum Design and Evaluation", conducted by ME department, MRU, Faridabad
11-03-2024 to 15-03-2024	STC on "Digital Tools in Teaching & Learning" organized by Education department, MRU, Faridabad
14-05-2024	FDP on "Bibliographic Analysis" organized by SoMC, MRU, Faridabad
01-10-2023 to 19-10-2023	Session on "NAAC Criterion" conducted by Internal Quality Assurance Cell, MRU, Faridabad
27-05-2024 to 29-05-2024	FDP on "IoT Foundations: Understanding the Basics" conducted by ECE, MRU
14-05-2024 to 15-05-2024	FDP on "OBE & ATTAINMENT" organized by SoMC, MRU
01-05-2024	Training Session on Using LexisNexis Resources to Enhance the Experience and Environment for Learning" organized by Library, MRU
04-04-2024	Workshop on "Practical Skill Enhancement in Sophisticated Analytical Instruments" conducted by School of Sciences, Manav Rachna University
30-03-2024	Workshop on "Propelling the Consultancy at Manav Rachna University" conducted by ECE, MRU
14-03-2024 to 15-03-2024	Workshop on "Creators of Metaverse" organized by the Department of Computer Science & Technology, School of Engineering, MRU, Faridabad
24-10-2023	Session "NAAC Preparedness by IQAC", organized by IQAC, MRU, Faridabad
10-08-2023	A Training Workshop for "Academic Audit: Guidelines Outcomes Targeted", organized by IQAC, MRU, Faridabad
10-01-2024	Session on "Campus Safety in Action: Manav Rachna University Emergency Evacuation Drill", conducted by IQAC, MRU, Faridabad
14-02-2024	Session for "Valedictory session for new joining faculty members", conducted by IQAC, MRU, Faridabad
29-02-2024	Session on "Understanding NAAC peer review for Quality Enhancement", conducted by IQAC, MRU

These initiatives ensure that faculty members remain competent in their teaching methods and contribute to research and academic excellence. Each department prepares its programs to meet the specific needs of its discipline. FDPs include Sessions on innovative teaching methods, usage of ICT, flipped

classrooms and activity-based learning and many more. Seminar and webinars include, Interdisciplinary seminar, departmental seminar, Research-based Webinars, Webinars with industry experts to bridge the gaps between industry and academia. Similarly, the workshops include Technical Workshops (Hands-on sessions), Soft Skills Development (Workshops on leadership, communication, time management) and workshops related to Innovation & Entrepreneurship. These initiatives ensure that every faculty member remain updated and competent in their teaching skills and contribute to teaching and research excellence. Each department modifies its programs to meet the specific needs of its discipline.

Name of teacher who attended the program	Title of the program	Duration (from - to) (DD-MM-YYYY)
Anshuman Sahai	FDP on "Digital tools for teaching and learning" Manav Rachna University, Faridabad	11-03-2024 to 15-03-2024
Ananna Bardhan	FDP on "Digital tools for teaching and learning" Manav Rachna University, Faridabad	11-03-2024 to 15-03-2024
Deepti Maikhuri	FDP on "Digital tools for teaching and learning" Manav Rachna University, Faridabad	11-03-2024 to 15-03-2024
Dinesh Kumar Sharma	FDP on "Digital tools for teaching and learning" Manav Rachna University, Faridabad	11-03-2024 to 15-03-2024
Shiv Kumar Dixit	FDP on "Digital tools for teaching and learning" Manav Rachna University, Faridabad	11-03-2024 to 15-03-2024
Shiv Kumar Dixit	FDP on "Effective curriculum design and evaluation", Manav Rachna University, Faridabad	18-03-2024 to 22-03-2024
Jaiparkash	FDP on "Effective curriculum design and evaluation", Manav Rachna University, Faridabad	18-03-2024 to 22-03-2024
Dinesh Kumar Sharma	Training Program on "Unearthed dangers: The hidden threat of solid waste in disaster risk" Manav Rachna University, Faridabad	18-03-2024 to 22-03-2024
Ananna Bardhan	Training Program on "Unearthed dangers: The hidden threat of solid waste in disaster risk" Manav Rachna University, Faridabad	18-03-2024 to 22-03-2024
Anshuman Sahai	Training Program on "Unearthed dangers: The hidden threat of solid waste in disaster risk" Manav Rachna University, Faridabad	18-03-2024 to 22-03-2024
Deepti Maikhuri	Training Program on "Unearthed dangers: The hidden threat of solid waste in disaster risk" Manav Rachna University, Faridabad	18-03-2024 to 22-03-2024

Rashi Banerji	FDP on "Research Methodology", SoMC, Manav Rachna University, Faridabad	27-02-2024 to 02-03-2024
Neeraj Chopra	FDP on "Research Methodology", SoMC, Manav Rachna University, Faridabad	27-02-2024 to 02-03-2024
Shweta Goel	FDP on "Research Methodology", SoMC, Manav Rachna University, Faridabad	27-02-2024 to 02-03-2024
Animesh Singh	FDP on "Research Methodology", SoMC, Manav Rachna University, Faridabad	27-02-2024 to 02-03-2024
Pooja Kapoor	FDP on "Research Methodology", SoMC, Manav Rachna University, Faridabad	27-02-2024 to 02-03-2024
Yogita Sharma	FDP on "Research Methodology", SoMC, Manav Rachna University, Faridabad	27-02-2024 to 02-03-2024
Shagun Chahal	FDP on "Research Methodology", SoMC, Manav Rachna University, Faridabad	27-02-2024 to 02-03-2024
Pragati Chouhan	FDP on "Research Methodology", SoMC, Manav Rachna University, Faridabad	27-02-2024 to 02-03-2024
Parul Jhajharia	FDP on "Research Methodology", SoMC, Manav Rachna University, Faridabad	27-02-2024 to 02-03-2024
Abhishek Saxena	FDP on "Microsoft Power BI Data Analyst Associate" by ICT Academy	06-11-2023 to 10-11-2023
Abhishek Saxena	FDP on "Wireless Networks" in association with NITTTR, Chandigarh	12-02-2024 to 16-02-2024
Abhishek Saxena	FDP on "Internet of Things" conducted by ICT Academy at MRU	28-11-2023 to 02-12-2023
Adnan Irshad	Participated in Faculty Orientation Programme at MRU	05-08-2023 to 30-09-2023
Ajit	FDP on "Sustainable Development Goals: Challenges and Opportunities" Conducted by Electrical Engineering Department, NITTTR Chandigarh	21-08-2023 to 25-08-2023
Ajit	FDP on "Scilab Programming for Beginners" Conducted by Electronics and Communication Engineering Department, NITTTR Chandigarh	24-07-2023 to 28-07-2023
Arpit Sand	FDP on "Digital Tools for Teaching and Learning" by NITTTR, Chandigarh.	11-03-2024 to 15-03-2024
Akanksha Choudhary	FDP on "Use of Data Analysis in Research" by Trinity Dwarka	16-11-2023 to 23-11-2023

Akhilesh Kumar Dwivedi	FDP on "Pedagogical Interventions in the Light Of National Education Policy 2020" at Manav Rachna University	09-10-2023 to 14-10-2023
Akhilesh Kumar Dwivedi	STC ICT on "Advanced Instructional Methods for Teaching-Learning" by NITTTR, Chandigarh	20-11-2023 to 24-11-2023
Akhilesh Kumar Dwivedi	FDP on "Effective Curriculum Design and Evaluation" (in Collaboration with MRU) by Curriculum Development Centre Department, NITTTR Chandigarh	18-03-2024 to 22-03-2024
Aman Jatain	FDP on "Wireless Networks" in association with NITTTR, Chandigarh	12-02-2024 to 16-02-2024
Anjali Panwar	Participated in Faculty Orientation Programme at MRU	05-08 -2023 to 30-09-2023
Anshuman Sahai	FDP on "Sustainable Development Goals: Challenges and Opportunities" by NITTTR Chandigarh	21-08-2023 to 25-08-2023
Anshuman Sahai	Research Methodologies for Science, management and engineering projects"	09-10-2023 to 13-10-2023
Anshuman Sahai	FDP on "Scilab Programming for Beginners" by MRU, Faridabad	24-07-2023 to 28-07-2023
Anup Singh	FDP on "Implementing IoT & Machine Learning Applications on Raspberry Pi"	03-07-2023 to 07-07-2023
Anup Singh	FDP on "Recent Developments in Electrical & Electronics Engineering : A Research Prospective" by SVCET (A), Chittoor, A.P.	24-07-2023 to 28-07-2023
Anup Singh	FDP on "AI for Building Speech and Vision Applications using Python" organized by Galgotias College of Engineering and Technology (GCET, Gr. Noida)	21-08-2023 to 25-08-2023
Anup Singh	FDP on "Internet of Things" conducted by ICT Academy at MRU	28-11-2023 to 02-12-2023
Anupriya Sharma	FDP on "Wireless Networks" in association with NITTTR, Chandigarh	12-02-2024 to 16-02-2024
Aparna Vyas	FDP on "Pedagogical interventions in the light of national education policy 2020"	09-10-2023 to 14-10-2023
Arushi M. Mehta	Participated in Faculty Orientation Programme at MRU	05-08 -2023 to 30-09-2023
Arushi M. Mehta	FDP on "Higher Education - A Paradigm Shift in Teaching and Learning" organized by IILM University, Gurugram	24-07-2023 to 29-07-2023
Arvinder Kaur	STC ICT on "Advanced Instructional Methods for Teaching-Learning" by NITTTR, Chandigarh	20-11-2023 to 24-11-2023
Arvinder Kaur	NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) NIEPA, New Delhi.	03-01-2024 to 12-01-2024

Bhanu Pratap Choudhary	FDP on "Scilab Programming for Beginners" Conducted by Electronics and Communication Engineering Department, NITTTR Chandigarh	24-07-2023 to 28-07-2023
Bhawna Singla	FDP on "Scilab Programming for Beginners" by MRU, Faridabad	24-07-2023 to 28-07-2023
Bhawna Singla	FDP on Enhancing Cyber security through Artificial Intelligence held at MRIIRS, Faridabad	05-02-2024 to 10-02-2024
Aparna Vyas	FDP on "Unearthed Dangers:The hidden tthreat of solid waste in Disaster Risk"held at MRU, Faridabad	18-03-2024 to 22-03-2024
Bhawna Singla	FDP on "Unearthed Dangers:The hidden tthreat of solid waste in Disaster Risk"held at MRU, Faridabad	18-03-2024 to 22-03-2024
Chandni Magoo	FDP on "Emotional Intelligence" conducted by ICT Academy	09-10-2023 to 13-10-2023
Chaitali Wadhwa	FDP on "SPSS techniques" by Centre for sustainable Development and Policy Research Analysis, New Delhi	16-10-2023 to 21-10-2023
Chandni Magoo	FDP on "Internet of Things" conducted by ICT Academy at MRU	28-11-2023 to 02-12-2023
Charu Pathak	FDP on "Scilab Programming for Beginners" Conducted by Electronics and Communication Engineering Department, NITTTR Chandigarh	24-07-2023 to 28-07-2023
Deepa Arora	FDP on "Scilab Programming for Beginners" by MRU, Faridabad	24-07-2023 to 28-07-2023
Deepa Arora	Workshop on "MATLAB & SIMULINK" by MRIIRS, Faridabad	03-07-2023 to 07-07-2023
Deepa Arora	FDP on "Sustainable Development Goals - Challenges and Opportunities" Conducted by Electrical Engineering Department, at MRU	21-08-2023 to 25-08-2023
Deepti Maikhuri	FDP on "Sustainable Development Goals: Challenges and Opportunities" by NITTTR Chandigarh	21-08-2023 to 25-08-2023
Deepti Maikhuri	FDP on "Scilab Programming for Beginners" by MRU, Faridabad	24-07-2023 to 28-07- 2023
Deepti Thakral	FDP on "Artificial intelligence and Machine Learning Applications" by DIET, AP, India	01-07-2023 to 10-07-2023
Deepti Thakral	FDP on "Scilab Programming for Beginners" by MRU, Faridabad	24-07-2023 to 28-07-2023
Deepti Thakral	Orientation Program "NEP 2020 Orientation & Sensitization programme" by Jamia University	04-12-2023 to 13-12-2023
Deepti Thakral	FDP on "Artificial Intelligence in Education & Business" by Hindustan College of Arts & Science, Coimbatore	08-01-2024 to 12-01-2024
Deepti Thakral	FDP on Wireless Networks in association with NITTTR, Chandigarh	12-02-2024 to 16-02-2024

Eram Aziz	FDP on "Pedagogical Interventions in the Light of National Education Policy 2020" at Manav Rachna University	09-10-2023 to 14-10-2023
Eram Aziz	STC on "Advanced Instructional Methods for Teaching-Learning" by NITTTR, Chandigarh	20-11-2023 to 24-11-2023
Esha Khanna	FDP on "Wireless Networks" in association with NITTTR, Chandigarh	12-02-2024 to 16-02-2024
Esha Khanna	FDP on "Emotional Intelligence" conducted by ICT Academy at MRU	09-10-2023 to 13-10-2023
Esha khanna	FDP on "Internet of Things" conducted by ICT Academy at MRU	28-11-2023 to 02-12-2023
Gianender	FDP on "Scilab Programming for Beginners" by MRU, Faridabad	24-07-2023 to 28-07- 2023
Gianender	FDP on "Managing Your Ego and Emotions at Workplace" by NITTTR Chandigarh	11-09-2023 to 15-09-2023
Gianender	FDP on "Sustainable Development Goals: Challenges and Opportunities" by NITTTR Chandigarh	21-08-2023 to 25-08-2023
Goldie Gabrani	FDP on "Internet of Things" conducted by ICT Academy at MRU	28-11-2023 to 02-12-2023
Gunjan Chandwani	FDP on "Internet of Things" conducted by ICT Academy at MRU	28-11-2023 to 02-12-2023
Harsha	FDP on "Sustainable Development Goals: Challenges and Opportunities" by NITTTR Chandigarh	21-08-2023 to 25-08-2023
Roopa Rani	FDP on "Sustainable Development Goals: Challenges and Opportunities" by NITTTR Chandigarh	21-08-2023 to 25-08-2023
J P Sharma	FDP on "Sustainable Development Goals: Challenges and Opportunities" Conducted by Electrical Engineering Department, NITTTR Chandigarh	21-08-2023 to 25-08-2023
Joginder Singh	FDP on "Sustainable Development Goals: Challenges and Opportunities" Conducted by Electrical Engineering Department, NITTTR Chandigarh	21-08-2023 to 25-08-2023
Joginder Singh	FDP on "Digital Prototyping using CATIA" conducted by ICT Academy at Manav Rachna University	27-11-2023 to 01-12-2023
Joginder Singh	FDP on "Idea Generation Method" conducted by ICT Academy at Manav Rachna University	06-11-2023 to 10-11-2023
K Deepa	FDP on "Scilab Programming for Beginners" Conducted by Electronics and Communication Engineering Department, NITTTR Chandigarh	24-07-2023 to 28-07-2023
Bharatendu Aggarwal	FDP on "Research methodology" by Mahatma Hansraj Faculty development Centre & SOL, MRU	04-12-2023 to 09-12-2023
Anjali Panwar	FDP on "Research Methodology" by Mahatma Hansraj Faculty development Centre & SOL, MRU	04-12-2023 to 09-12-2023

Arushi	FDP on Human Rights organized by the Justice V.R. Krishna Iyer Chair on Human Rights, School of Legal, CUSAT, Kerala	27th May - 2nd June 2024
Chhavi	FDP on Research methodology by Mahatma Hansraj Faculty development Centre & SOL, MRU	04-12-2023 to 09-12-2023
Kanu Priya	FDP on "Research methodology" by Mahatma Hansraj Faculty development Centre & SOL, MRU	04-12-2023 to 09-12-2023
Kanu Priya	FDP on "Advance Tools and Techniques on Research Methodology" organised by Research Foundation of India & RFI Care	04-09-2023 to 13-09-2023
Kanu Priya	Participated in Faculty Orientation Programme at MRU	05-08 -2023 to 30-09-2023
Kaveri Sharma	FDP on "SPSS Techniques" by Center for Sustainable Development and Policy Research Analysis, New Delhi	16-10-2023 to 21-10-2023
Kiran Gupta	FDP on "Pedagogical Interventions in the Light of National Education Policy 2020" at Manav Rachna University	09-10-2023 to 14-10-2023
Kiran Gupta	STC ICT on "Advanced Instructional Methods for Teaching-Learning" by NITTTR, Chandigarh	20-11-2023 to 24-11-2023
Kriti Dagar	FDP on "Pedagogical Interventions in the Light of National Education Policy 2020" at Manav Rachna University	09-10-2023 to 14-10-2023
Lokesh	FDP on "Scilab Programming for Beginners" Conducted by Electronics and Communication Engineering Department, NITTTR Chandigarh	24-07-2023 to 28-07-2023
Madhvi Khush	FDP on "Research Paper Writing" by BPIT and RFI-CARE	21-08-2023 to 26-08-2023
Madhvi Khush	FDP on "Pedagogical Interventions in the light of education policy 2020", by MRU, Faridabad	09-10-2023 to 14-10-2023
Mamta Arora	FDP on "Wireless Networks", in association with NITTTR, Chandigarh	12-02-2024 to 16-02-2024
Mamta Arora	FDP on "Internet of Things", conducted by ICT Academy at MRU	28-11-2023 to 02-12-2023
Mandeep Bhadana	FDP on "Sustainable Development Goals: Challenges and Opportunities" Conducted by Electrical Engineering Department, NITTTR Chandigarh	21-08-2023 to 25-08-2023
Mandeep Bhadana	FDP on "Managing Your Ego and Emotions at Workplace" by NITTTR Chandigarh	11-09-2023 to 15-09-2023
Manisha Narula	FDP on Research methodology by Mahatma Hansraj Faculty development Centre & SOL, MRU	04-12-2023 to 09-12-2023
Manisha Narula	FDP on "Advance Tools and Techniques on Research Methodology"	04-09-2023 to 13-09-2023

Manisha Narula	FDP on "Interdisciplinary Sustainable Strategies and Reflections in Law, Management and IT in Digital Era"	24-07-2023 to 30-07-2023
Manisha Narula	Participated in Faculty Orientation Programme at MRU	05-08 -2023 to 30-09-2023
Manoj Kumar	FDP on "NAAC and Internal Quality Assurance" by Media Engineering Department, MRIIRS, Faridabad	11-09-2023 to 15-09-2023
Manpreet Kaur	FDP on "Internet of Things" conducted by ICT Academy at MRU	28-11-2023 to 02-12-2023
Meena	FDP on "Wireless Networks" in association with NITTTR, Chandigarh	12-02-2024 to 16-02-2024
Meena Kapahi	FDP on "Sustainable Development Goals: Challenges and Opportunities" by NITTTR Chandigarh	21-08-2023 to 25-08-2023
Meenakshi Gupta	FDP on "Scilab Programming for Beginners" Conducted by Electronics and Communication Engineering Department, NITTTR Chandigarh	24-07-2023 to 28-07-2023
Meenakshi Gupta	FDP on "Sustainable Development Goals: Challenges and Opportunities" by NITTTR Chandigarh	21-08-2023 to 25-08-2023
Meenal Rawat	FDP on "Pedagogical Interventions in the Light of National Education Policy 2020" at Manav Rachna University	09-10-2023 to 14-10-2023
Meenal Rawat	STC ICT on "Advanced Instructional Methods for Teaching-Learning" by NITTTR, Chandigarh	20-11-2023 to 24-11-2023
Minakshi Sharma	FDP "Advanced Instructional Methods for Teaching-Learning " organized by NITTTR Chandigarh	20-11-2023 to 24-11-2023
Mira Mishra	FDP on "Pedagogical Interventions in the Light of National Education Policy 2020" at Manav Rachna University	09-10-2023 to 14-10-2023
Mira Mishra	STC on "Advanced Instructional Methods for Teaching-Learning" by NITTTR, Chandigarh	20-11-2023 to 24-11-2023
Mira Mishra	Viksit Bharat@2047 ke Alok me Bhartaiya Gyan Parampara Ke Nootan Aayam	08-01-2024 to 12-01-2024
Monika	FDP on "Wireless Networks" in association with NITTTR, Chandigarh	12-02-2024 to 16-02-2024
Mrinal Pandey	FDP on "Internet of Things" conducted by ICT Academy at MRU	28-11-2023 to 02-12-2023
Narender	FDP on "Wireless Networks" in association with NITTTR, Chandigarh	12-02-2024 to 16-02-2024
Nazish A Shamshi	FDP on "Sustainable Development Goals: Challenges and Opportunities" Conducted by Electrical Engineering Department, NITTTR Chandigarh	21-08-2023 to 25-08-2023

Neelu chaudhary	FDP on "Wireless Networks" in association with NITTTR, Chandigarh	12-02-2024 to 16-02-2024
Neelu chaudhary	FDP on "Internet of Things" conducted by ICT Academy at MRU	28-11-2023 to 02-12-2023
Neeraj Chopra	FDP "Advanced Instructional Methods for Teaching-Learning " organized by NITTTR Chandigarh	20-11-2023 to 24-11-2023
Neeraj Chopra	FDP on "Scale Development and Data Analysis using smart PLS4" by Koach Scholar	25-10-2023 to 29-10-2023
Nibedita Hazarika	FDP on "Pedagogical Interventions in the Light of National Education Policy 2020" at Manav Rachna University	9-10-2023 to 14-10-2023
Nibedita Hazarika	STC on "Advanced Instructional Methods for Teaching-Learning" by NITTTR, Chandigarh	20-11-2023 to 24-11-2023
Niharika Thakur	FDP on "Scilab Programming for Beginners" Conducted by Electronics and Communication Engineering Department, NITTTR Chandigarh	24-07-2023 to 28-07-2023
Nitika	FDP on "Scilab Programming for Beginners" Conducted by Electronics and Communication Engineering Department, NITTTR Chandigarh	24-07-2023 to 28-07-2023
Parneeta Dhariwal	FDP on "Internet of Things" conducted by ICT Academy at MRU	28-11-2023 to 02-12-2023
Piyush Charan	FDP Cum STC on "Current Advancements in Electric and Hybrid Vehicle Technology: Opportunities and Challenges" organised by Amity University, Lucknow.	08-07-2023 to 14-07-2023
Piyush Charan	FDP on "Scilab Programming for Beginners" Conducted by Electronics and Communication Engineering Department, NITTTR Chandigarh	24-07-2023 to 28-07-2023
Piyush Charan	FDP on "Sustainable Development Goals: Challenges and Opportunities" Conducted by Electrical Engineering Department, NITTTR Chandigarh	21-08-2023 to 25-08-2023
Piyush Charan	FDP on "Internet of Things" conducted by ICT Academy at MRU	28-11-2023 to 02-12-2023
Piyush Charan	FDP on "Artificial Intelligence" organized by the Department of Computer Science and Application in Association with Internal Quality Assurance Cell (IQAC), Christ Academy Institute for Advanced Studies, Bangalore.	20-11-2023 to 24-11-2023
Piyush Charan	Faculty Orientation Programme at MRU	05-08-2023 to 30-09-2023

Piyush Charan	NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by Teaching Learning Center Indian Institute of Technology (BHU) Varanasi.	05-02-2024 to 14-02-2024
Piyush Charan	FDP on "Wireless Networks" Conducted by Computer Science and Engineering Department, NITTTR Chandigarh	12-02-2024 to 16-02-2024
Piyush Charan	FDP on "Effective Curriculum Design and Evaluation" Conducted by Curriculum Development Centre Department, NITTTR Chandigarh	18-03-2024 to 22-03-2024
Piyush Charan	FDP on "Teaching and Learning in Engineering" from SWAYAM NPTEL	Jan-Feb, 2024
Piyush Mahendru	FDP on "Sustainable Development Goals: Challenges and Opportunities" Conducted by Electrical Engineering Department, NITTTR Chandigarh	21-08-2023 to 25-08-2023
Pooja Kapoor	FDP "Advanced Instructional Methods for Teaching-Learning" organized by NITTTR Chandigarh	20-11-2023 to 24-11-2023
Pooja Parmar	FDP on "Pedagogical Interventions in the Light of National Education Policy 2020" at Manav Rachna University	9-10-2023 to 14-10-2023
Pooja Parmar	STC on "Advanced Instructional Methods for Teaching-Learning" by NITTTR, Chandigarh	20-11-2023 to 24-11-2023
Pradeep Maurya	FDP on "Sustainable Development Goals: Challenges and Opportunities" Conducted by Electrical Engineering Department, NITTTR Chandigarh	21-08-2023 to 25-08-2023
Pradeep Maurya	FDP on "Grassroots innovation and Skill Development Conclave for Rural Development"	11-09-2023 to 16-09-2023
Prashant Bhardwaj	FDP on "Sustainable Development Goals: Challenges and Opportunities" Conducted by Electrical Engineering Department, NITTTR Chandigarh	21-08-2023 to 25-08-2023
Prashant Bhardwaj	FDP on "Scilab Programming for Beginners" Conducted by Electronics and Communication Engineering Department, NITTTR Chandigarh	24-07-2023 to 28-07-2023
Prinima Gupta	FDP on "Wireless Networks" in association with NITTTR, Chandigarh	12-02-2024 to 16-02-2024
Prinima Gupta	FDP on "Internet of Things" conducted by ICT Academy at MRU	28-11-2023 to 02-12-2023
Puja Das	Participated in "Faculty Orientation" Programme at MRU	05-08-2023 to 30-09-2023
Ram Chatterjee	FDP on "Wireless Networks" in association with NITTTR, Chandigarh	12-02-2024 to 16-02-2024

Ranjna	FDP on "Internet of Things" conducted by ICT Academy at MRU	28-11-2023 to 02-12-2023
Ranjna jain	FDP on "Wireless Networks" in association with NITTTR, Chandigarh	12-02-2024 to 16-02-2024
Rashee Singh	STC on "Advanced Instructional Methods for Teaching-Learning" by NITTTR, Chandigarh	20-11-2023 to 24-11-2023
Rashi Banerjee	FDP "Advanced Instructional Methods for Teaching-Learning " organized by NITTTR Chandigarh	20-11-2023 to 24-11-2023
Ritu Sharma	FDP on "Pedagogical Interventions in the Light of National Education Policy 2020" at Manav Rachna University	09-10-2023 to 14-10-2023
Ritu Sharma	FDP on "Managing your Ego & Emotions at Work Place" in MRIIRS by by NITTTR, Chandigarh	11-09-2023 to 15-09-2024
Ritu Sharma	STC ICT on "Advanced Instructional Methods for Teaching-Learning" by NITTTR, Chandigarh	20-11-2023 to 24-11-2023
Roopa Rani	FDP on "Sustainable Development Goals: Challenges and Opportunities" by NITTTR Chandigarh	21-08-2023 to 25-08-2023
Ruchi Gupta	Workshop on "MATLAB & SIMULINK" by MRIIRS, Faridabad	03-07-2023 to 07-07- 2023
Ruchi Gupta	FDP on "Scilab Programming for Beginners" by MRU, Faridabad	24-07-2023 to 28-07- 2023
Sachin Lakra	FDP on "Wireless Networks" in association with NITTTR, Chandigarh	12-02-2024 to 16-02-2024
Sanjay Kumar	FDP on "Wireless Networks" in association with NITTTR, Chandigarh	12-02-2024 to 16-02-2024
Sanjay Singh	FDP on "Internet of Things" conducted by ICT Academy at MRU	28-11-2023 to 02-12-2023
Savita Sharma	STC on "Advanced Instructional Methods for Teaching-Learning" by NITTTR, Chandigarh	20-11-2023 to 24-11-2023
Savita Sharma	FDP on "Effective Curriculum Design and Evaluation" (in Collaboration with MRU) by Curriculum Development Centre Department, NITTTR Chandigarh	18-03-2024 to 22-03-2024
Seema Aggarwal	FDP on "Scilab Programming for Beginners" by MRU, Faridabad	24-07-2023 to 28-07-2023
Shaharyar Asaf Khan	FDP on "SPSS Techniques" by Center for Sustainable Development and Policy Research Analysis, New Delhi	16-10-2023 to 21-10-2023
Sharv Dutt Anand	FDP on "Pedagogical Interventions in the Light of National Education Policy 2020" at Manav Rachna University	09-10-2023 to 14-10-2023
Sharv Dutt Anand	STC ICT on "Advanced Instructional Methods for Teaching-Learning" by NITTTR, Chandigarh	20-11-2023 to 24-11-2023
Shelly	Workshop on "Emerging technologies in Big Data analytics using HADOOP & Python" by ABES Engineering College, Ghaziabad	21-08-2023 to 25-08-2023

Shruti Vashisht	FDP on "Scilab Programming for Beginners" Conducted by Electronics and Communication Engineering Department, NITTTR Chandigarh	24-07-2023 to 28-07-2023
Shruti Vashisht	FDP on "Sustainable Development Goals: Challenges and Opportunities" by NITTTR Chandigarh	21-08-2023 to 25-08-2023
Simran Singh	FDP on "Research methodology" by Mahatma Hansraj Faculty development Centre & SOL, MRU	04-12-2023 to 09-12-2023
SK Bose	Refresher Course on "Teaching Pedagogy in Legal Studies & Social Sciences as Resource Person" organized by Ministry of Education & Barkatullah University	24-07-2023 to 07-07-2023
Smriti Mishra	FDP on "Sustainable Development Goals: Challenges and Opportunities" Conducted by Electrical Engineering Department, NITTTR Chandigarh	21-08-2023 to 25-08-2023
Smriti Mishra	FDP on the "Internet of Things" conducted by ICT Academy at Manav Rachna University	28-11-2023 to 02-12-2023
Smriti Mishra	FDP on "Digital Prototyping using CATIA" conducted by ICT Academy at Manav Rachna University	10-07-2023 to 14-07-2023
Smriti Mishra	Participated in Faculty Orientation Programme at MRU	05-08-2023 to 30-09-2023
Srishti Bhatla	FDP on "Use of Data Analysis in Research" by Trinity Dwarka	16-11-2023 to 23-11-2023
Sumbul Fatima	Certificate Course on "Commercial Arbitration" organised by JUS Corpus	25-10-2023 to 31-10-2023
Sumbul Fatima	FDP on "IPR & outer space activities" DPIIT IPR Chair, MNLU Mumbai in association with the Centre for Research in Intellectual Property and Centre for Research in Air and Space Laws at Maharashtra National Law University Mumbai	25-11-2023 to 29-11-2023
Sumbul Fatima	Participated in Faculty Orientation Programme at MRU	05-08-2023 to 30-09-2023
Sunil Kadhiyan	FDP on "Use of Data Analysis in Research" by Trinity Dwarka	16-11-2023 to 23-11-2023
Surabhi Sharma	Participated in Faculty Orientation Programme at MRU	05-08-2023 to 30-09-2023
Surabhi Sharma	FDP on "Insolvency and Bankruptcy Laws in India" by NLU Assam	14-10-2023 to 20-10-2023
Asmita Patel	FDP on "Digital Tools for Teaching and Learning" by AICTE	11th to 15th March, 2024
Asmita Patel	FDP on "Research methodology" by Mahatma Hansraj Faculty development Centre & SOL, MRU	04-12-2023 to 09-12-2023

Vani Kataria	FDP on "Research methodology" by Mahatma Hansraj Faculty development Centre & SOL, MRU	04-12-2023 to 09-12-2023
Tamanna Chabbra	FDP on "Internet of Things" conducted by ICT Academy at MRU	28-11-2023 to 02-12-2023
Tamanna Sachdeva	FDP on "Wireless Networks" in association with NITTTR, Chandigarh	12-02-2024 to 16-02-2024
Tamanna Sachdeva	FDP on Internet of Things conducted by ICT Academy at MRU	28-11-2023 to 02-12-2023
Tarundeep Kaur	FDP on "Research methodology" by Mahatma Hansraj Faculty development Centre & SOL, MRU	05-08-2023 to 30-09-2023
Urmila Pilonia	FDP on "NAAC and Internal Quality Assurance" by Media Engineering Department, MRIIRS, Faridabad	11-09-2023 to 15-09-2023
Vani Kataria	Refresher Course on "Teaching law in 21st century-1st edition" organized by Gujarat Maritime University, Gandhinagar.	03-07-2023 to 05-08-2023
Vani Kataria	Participated in Faculty Orientation Programme at MRU	05-08 -2023 to 30-09-2023
Varun Yadav	NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by Teaching Learning Center Indian Institute of Technology (BHU) Varanasi.	05-02-2024 to 14-02-2024
Vijay Gill	FDP on "Scilab Programming for Beginners" Conducted by Electronics and Communication Engineering Department, NITTTR Chandigarh	24-07-2023 to 28-07-2023
Vijenderpal Singh	FDP on "Scilab Programming for Beginners" Conducted by Electronics and Communication Engineering Department, NITTTR Chandigarh	24-07-2023 to 28-07-2023
Yamini Atreya	FDP on "Research methodology" by Mahatma Hansraj Faculty development Centre & SOL, MRU	04-12-2023 to 09-12-2023
Yojna Arora	FDP on "Cloud Infrastructure (AWS)" by R P Sarathyns Institute of Technology, Tamil Nadu	21-08-2023 to 25-08-2023
Meenakshi Gupta	STC on "AI/ML and Data Science for Industry 4.0 (Intermediate Level)" by NITTTR, Chandigarh	29-01-2024 to 02-02-2024
Mr. Piyush Mahendru	FDP on "Effective Curriculum Design and Evaluation" by NITTTR in collaboration with MRU, Faridabad	18-03-2024 to 22-03-2024
Gianender	FDP on "Effective Curriculum Design and Evaluation" by NITTTR in collaboration with MRU, Faridabad	18-03-2024 to 22-03-2024
Ajit	FDP on "Effective Curriculum Design and Evaluation" by NITTTR in collaboration with MRU, Faridabad	18-03-2024 to 22-03-2024
Prashant Bhardwaj	FDP on "Effective Curriculum Design and Evaluation" by NITTTR in collaboration with MRU, Faridabad	18-03-2024 to 22-03-2024

JP Shrama	FDP on "Effective Curriculum Design and Evaluation" by NITTTR in collaboration with MRU, Faridabad	18-03-2024 to 22-03-2024
Smriti Mishra	FDP on "Effective Curriculum Design and Evaluation" by NITTTR in collaboration with MRU, Faridabad	18-03-2024 to 22-03-2024
Nazish	FDP on "Effective Curriculum Design and Evaluation" by NITTTR in collaboration with MRU, Faridabad	18-03-2024 to 22-03-2024
Mandeep	FDP on "Effective Curriculum Design and Evaluation" by NITTTR in collaboration with MRU, Faridabad	18-03-2024 to 22-03-2024
Pradeep	FDP on "Effective Curriculum Design and Evaluation" by NITTTR in collaboration with MRU, Faridabad	18-03-2024 to 22-03-2024
Dinesh Tripathi	FDP on Sustainable Development Goals: Challenges and Opportunities	21-08-2023 to 25-08-2023
Dinesh Tripathi	FDP on "Scilab Programming for Beginners" Conducted by Electronics and Communication Engineering Department, NITTTR Chandigarh	11-03-2024 to 15-03-2024
Dinesh Tripathi	FDP on "Effective Curriculum Design and Evaluation" by NITTTR in collaboration with MRU, Faridabad	18-03-2024 to 22-03-2024
Advin Masih	FDP on "Effective Curriculum Design and Evaluation" by NITTTR in collaboration with MRU, Faridabad	18-03-2024 to 22-03-2024
Seema Aggarwal	FDP on "Effective Curriculum Design and Evaluation" by NITTTR in collaboration with MRU, Faridabad	18-03-2024 to 22-03-2024
Ruchi Gupta	FDP on "NAAC and Internal Quality Assurance" by NITTTR Chandigarh	11-09-2023 to 15-09-2023
Ruchi Gupta	FDP on "STEM Teaching" by NITTTR Chandigarh in collaboration with MRIIRS, Faridabad.	18-12-2023 to 22-12-2023
Aparna Vyas	FDP on "Mathematics in Engineering and Science-Importance and Applications" held at VIT-AP University, Andhra Pradesh organized by the Department of Mathematics, School of Advanced Sciences.	02-01-2024 to 06.01.2024
S.K. Bose	FDP on "one week online Faculty Development Programme" on "Contemporary approaches to legal Research" organized by School of Law, Hindustan Institute of Technology and Science from 13 to 20 February'2024.	13-02-2024 to 20-02-2024
Piyush Charan	FDP on "Teaching and Learning in Engineering" from SWAYAM NPTEL	Jan-Feb, 2024
Varun Yadav	FDP on "Teaching and Learning in Engineering" from SWAYAM NPTEL	Jan-Feb, 2024
Charu Pathak	FDP on "Teaching and Learning in Engineering" from SWAYAM NPTEL	Jan-Feb, 2024
Ekta Rawat	FDP on "Digital Tools for Teaching and Learning" by NITTTR Chandigarh in collaboration with Media Engineering Department, MRU, Faridabad	11-03-2024 to 15-03-2024
Roopa Rani	FDP on "Digital Tools for Teaching and Learning" by NITTTR Chandigarh in collaboration with Media Engineering Department, MRU, Faridabad	11-03-2024 to 15-03-2024

Priti Gupta	FDP on "Digital Tools for Teaching and Learning" by NITTTR Chandigarh in collaboration with Media Engineering Department, MRU, Faridabad	11-03-2024 to 15-03-2024
A. Jayamani	FDP on "Digital Tools for Teaching and Learning" by NITTTR Chandigarh in collaboration with Media Engineering Department, MRU, Faridabad	11-03-2024 to 15-03-2024



Sample Certificate:



5.5 Expert Talk delivered by faculty

Expert talks delivered by faculty members at other institutions are highly valuable for both the individual faculty member and their institution. These talks/sessions promote knowledge sharing, professional development, and institutional reputation, while fostering collaboration across teaching and research communities. From Time-to-time Manav Rachna University Faculty members are delivering talks/session at various platforms in Academia and industry. In these Talks/Sessions, they are representing the university across various platforms and sharing their knowledge with them. By doing this, they are Showcasing MRU's Expertise and Academic Excellence, Knowledge Sharing, Enhancing University's Brand and Reach and Promoting Innovation and Entrepreneurship and other institutions too. Finally expert talks/sessions delivered by University faculty at other institutions significantly contribute to their professional growth, enhance MRU's academic reputation, and make a culture of collaboration, innovation, and knowledge sharing across the academic and industry.

Name of teacher who delivered Expert Talk	Title of the talk delivered	Duration (from – to) (DD-MM-YYYY)
Ms. Chaitali Wadhwa	Talk delivered in workshop on "Gender and Media" organized by WICCI – Rajasthan Legal Rights Consortium	31-08-2024
Ms. Chaitali Wadhwa	Guest arbitrator for the "Regional Rounds of the 17th FDI Investment Arbitration International Moot Court Competition", 2024	22-08-2024 to 25-08-2024
Ms. Chaitali Wadhwa	Talk delivered in series of workshops on "Moot Court and Debating", organized by DPS Noida	01-08-2024
Ms. Chaitali Wadhwa	Talk delivered in workshop on "Intersectionality in Gender and Law" organized by Project SEEKH	22-06-2024
Ms. Chaitali Wadhwa	Podcast on "Discussion on Women Rights", MR Radio 107.8 FM	10-03-2024
Ms. Chaitali Wadhwa	Talk delivered in workshop on "Awareness on the Sexual Harassment of Women at Workplace", organized by DAV College, Faridabad	21-12-2023
Dr. Manisha Narula	Session on "Navigating Copyright and Patents Law in India" in FDP on "Enhancing Research & Innovation Through Modern Research Methods" at School of Allied Health Sciences, Department of Physiotherapy, MRIIS	27-05-2024 to 31-05-2024
Dr. Yamini Atreya	Session on "Innovate & Protect: Understanding Intellectual Property" in FDP on "Enhancing Research & Innovation Through Modern Research Methods" organised by School of Allied Health Sciences, Department of Physiotherapy, MRIIS	27-05-2024 to 31-05-2024
Dr. Manisha Narula	Session on "From Ideas to Patents: Understanding Intellectual Property Rights", Department of Economics, School of Behavioral & Social Sciences, MRIIS	09-04-2024
Dr. Yamini Atreya	Judge in Preliminary Round of "Parley 4.0: National Debate Competition", Kanoria School of Law for Women in association with Rajasthan State Human Rights Commission	16-05-2024 to 17-05-2024
Dr. Yamini Atreya	Judge in "Niti Samiksha: Reformatory Policy Drafting Competition", Innoskill 2024, organised by Manav Rachna Educational Institutions	03-04-2024 to 04-04-2024
Ms. Sampriti Phukan	Session on "Awareness on the Sexual Harassment of Women at Workplace" as an external expert at KritKal Solutions, Software Company, Noida, U.P	09-04-2024

Dr. Ajit	Keynote Speaker on "SOLARIS 2024", International Conference on Energy, Ecology and Environment- SOLARISIS 2024	07-02-2024 to 09-02-2024
Dr. Prashant Bhardwaj	Keynote Speaker on "SOLARIS 2024", International Conference on Energy, Ecology and Environment- SOLARISIS 2024	07-02-2024 to 09-02-2024
Dr. Joginder and Dr. J P Sharma	Talk delivered in workshop on "Structural and CFD Analysis" , at MRU, Faridabad	03-02-2024
Dr. Sachin Lakra	A talk on "Fractal Patterns and Structures" at GIST Engineering College, East Godavari, India	22-06-2024
Dr. Sachin Lakra	Guest Lecture on "Fractal Patterns and Structures" at Vasireddy Venkatadri Institute of Technology, Guntur, AP, India	26-06-2024
Dr. Mrinal Pandey	Resource Person for FDP on Research and Development in Machine Learning/Deep Learning at AKGC, Gaziabad	04-08-2023 to 09-08-2023
Prof. Mrinal Pandey	Invited as Session Chair at International Conference on Advances in computation, communication and information Technology.MRIIRS, Faridabad.	23-11-2023 to 24-11-2023
Prof. Mrinal Pandey	Guest Lecture on Advancements in AI, IOT and Management for Sustainability: A Multidisciplinary Outlook at Lingaya's Vidyapeeth	22-07-2024 to 26-07-2024
Dr. Mamta Arora	Invite talk on "The Impact of Artificial Intelligence on a Smart Society" at HMSS 2023	27-05-2023 to 28-05-2023
Dr. Manoj Kumar	Invited Talk on "Recent Technology of AI in Computer Vision", at AECE2023, Noida, India	23-11-2023 to 24-11-2023
Dr. Urmila Pilonia	Chaired a technical session at AECE2023, Noida, India	23-11-2023 to 24-11-2023
Dr. Manoj Kumar	Chaired a technical session at AECE2023, Noida, India	23-11-2023 to 24-11-2023
Dr. Urmila Pilonia	Invited Talk on "Role of IoT and Blockchain in Healthcare", at AECE2023, Noida, India	23-11-2023 to 24-11-2023

Sample Certificate



FOREIGN DIRECT INVESTMENT INTERNATIONAL ARBITRATION MOOT

SOUTH ASIA REGIONAL ROUND 2024 :: LLOYD LAW COLLEGE

22nd - 25th August 2024

Presented to

Ms. Chaitali Wadhwa

In recognition of your esteemed role as an **Arbitrator**, your expertise and guidance has significantly contributed to the success of this prestigious event.



Manohar Thairani
Manohar Thairani
President
Lloyd Law College

Christian Campbell
Christian Campbell
Director
Center for International Legal Studies

Dr. Md. Salim
Dr. Md. Salim
Senior Director & Dean
Lloyd Law College & Lloyd School of Law

Dr. Akhilesh Kumar Khan
Dr. Akhilesh Kumar Khan
Director
Lloyd Law College & Lloyd School of Law

CHAPTER: 6

STUDENT-CENTRIC: OUTREACH, INCLUSIVITY, PROFESSIONAL ACTIVITIES AND ACHIEVEMENT HIGHLIGHTS

The students of Manav Rachna University continue to excel both academically and in extracurricular domains, making a mark on various national and international platforms. This chapter highlights the outstanding achievements of our students, recognizing their success in competitions, research, innovation, sports, and community service. Through dedication, hard work, and a commitment to excellence, MRU students have brought pride to the university by consistently raising the bar in diverse fields, showcasing their potential as future leaders and change-makers. The achievement highlights of our students are listed below:

1. Vaishali, School of Education and Humanities has won First prize in 100 mtr race, a Second prize in Lemon Race & First prize in Basketball competition in Manav Rachna Inter College Sports Tournament.
2. Akshita Bhardwaj, School of Education and Humanities won Basketball and Cricket competition during the Manav Rachna Inter College Sports Tournament.
3. Rama Chauhan, School of Education and Humanities won 1st prize in the International Sheru classic powerlifting competition in Pragati Maidan from 7th to 9th June 2024.
4. Shruti Kumar, School of Law won first prize in Bhartiya Mahila Sansad, the National Youth Parliament held from 25th - 26th April 2024
5. Prisha Bhardwaj, School of Law won First prize in the IX Edition National Moot Court Competition, the Northcap University held from 19th- 20th April 2024
6. Priyank Walter, School of Law won First prize in the IX Edition National Moot Court Competition, the Northcap University held from 19th- 20th April 2024
7. Shruti Kumar, School of Law Won the Best Memorial Award in Pratigya, Law Knot, Inooskill 2024 from 3 - 4th April 2024

8. Shruti Kumar, School of Law won the Verbal Mention first position in the Lok Sabha, The National Youth Parliament by Vox Juris held on 15th March 2024
9. Aarushi Sharma , School of Law won First Position in Cricket in 10TH Open Girls Sports Meet held on 8th February 2024
10. Aarushi Sharma, School of Law won First Position -Table Tennis- 10TH Open Girls Sports Meet held on 8th February 2024
11. Arushi Sharma, School of Law won the First Position in Sports Week in Tug of War on 9th January 2024.
12. Digamber Phagna, School of Law won first prize in Powerlifting – BITS Open Sports Meet held from 22nd to 26th September 2023
13. Vidhi Singh, School of Law won first prize in the 65th National Shooting Championship Competitions in Shotgun Events- Clay Pigeon Trap Shooting National Championship Jr. Women (Team), held from 21st October to 30th November 2023
14. Vidhi Singh, School of Law won eighth position in the 66th National Shooting Championship Competitions in Shotgun Events- Clay Pigeon Trap Shooting National Championship Jr. Women (Team) held from 21st October to 30th November 2023
15. Vidhi Singh, School of Law won First Position in the 66th National Shooting Championship Competitions in Shotgun Events- Clay Pigeon Trap Shooting National Championship Jr. Women (Team) held from 21st October to 30th November 2023
16. Vidhi Singh, School of Law won Fourth Position in the 66th National Shooting Championship Competitions in Shotgun Events- Clay Pigeon Trap Shooting National Championship Jr. Women (Team) held from 21st October to 30th November 2023.
17. Harsh, Rishav, Avdhesh, Department of CST achieved 3rd position in IDEATHON 2023(Theme- Health and Well Being), under the mentorship of Dr. Parneeta organized at J. C Bose University of Science and Technology.
18. Tejas Singh, Vansh Aggarwal, Ayush Sachdeva and Kartik Dargan, Department of CST achieved 2nd position in InnovaThon 2023 under the mentorship of Dr. Parneeta Dhaliwal, Dr. Ranjna Jain, organized by Amity University on 2nd and 3rd November 2023.
19. Tanisha Bhayana, Udita Kejriwal and Sudeep Batra, Department of CST are among the 1% toppers for the NPTEL course Ethics in engineering practice.

20. Lakshit Gera, Department of CST is among the 2% toppers for the NPTEL course Ethics in engineering practice.
21. Amaan Khan, Department of CST is among the 2% toppers for the NPTEL course The Joy of Computing using Python.
22. Ramaya Gayatri Kovvali and Yagh Yadav, Department of CST are among the 5% toppers for the NPTEL course Ethics in engineering practice.
23. Aswani Soni and Ayush Varnashy,, Department of CST are among the 5% toppers for the NPTEL course The Joy of Computing using Python.
24. Aritra Chaterjee,, Department of CST is among the 1% toppers for the NPTEL course Ethics in Corporate Finance.
25. Vansh Aggarwal and Avdhesh Kumar Sharma, Department of CST are among the 5% toppers for the NPTEL course Ethics in Ecology and Environment.
26. Saurav Kumar Srivastava, Department of CST is among the 5% toppers for the NPTEL course Introduction to Internet of Things.
27. Aarya Bhatia, Department of CST is among the 5% toppers for the NPTEL course Water Society And Sustainability.
28. Team Shinchin, with members Harsh Bhardwaj, Swayam Arora, Chhaya Sharma and Khushboo Mehta, Department of CST clinched the 3rd prize at the MRSDC MRI, a 12 Hours Hackathon - HackItUp 1.0 on 9th- 11th Feb 2024.
29. Team **“Chole (A)_Codes(T)_Bhature(P)”** comprising of **Tanish Sharma, Ashwani Soni and Pratyush Mishra** excelled with a remarkable **4th Rank**, in **Inter University Programming Contest (IUPC), organized by** LNMIIIT Jaipur's Plinth 2024 Cybros Event, 19th -21st January, 2024.
30. Bhargavi Devapatla, Department of CST, Manav Rachna University, along with Manas Jha, Manikanta Kancharla and Sankit Singhal, Manav Rachna International Institute of Research and Studies participated in Hackathon- Code Sangam that was held from 27th - 29th Feb 2024 at SGT University. It was a 36 hour hackathon having three rounds. The team bagged the first position and won a prize of Rs 15,000.
31. The Team Bring Hope - Rishav , Harsh and Avdhesh, Department of CST emerged victorious in Sociotown at the National Social Summit' 24, hosted

by the prestigious Indian Institute of Technology (IIT), Roorkee on 10th- 11th Feb, 2024. The team secured 3rd position among approximately 500 participants from various colleges nationwide

32. Charu Goyal, Chairperson of IEEE MRU, Department of CST was awarded the prestigious J.K Pal Memorial award for her exceptional guidance and mentoring of the IEEE Manav Rachna University team, as well as her endless contributions to IEEE.
33. Prerna Kandpal, Vice Chairperson of IEEE MRU, Department of CST was awarded the Outstanding Student Volunteer Award for her exceptional courage and selfless service towards IEEE MRU and IEEE.
34. Ayushi Bhardwaj, General Secretary of IEEE MRU, Department of CST received the Outstanding Student Volunteer Award for her exceptional courage and selfless service towards IEEE MRU and IEEE.
35. Manya Sinha, Treasurer of IEEE MRU, Department of CST was felicitated with the Outstanding WIE Student Volunteer Award for her selfless service and dedication towards IEEE MRU.
36. Sudeep Batra, RAS Chairperson of IEEE MRU, Department of CST was felicitated with the "Outstanding WIE Student Volunteer Award" for his selfless service and dedication towards IEEE MRU.
37. Ramya Gayatri Kovvali, Varun Kumar Gera, Pratham Bhatia, Shivani Sharma, Department of CST have participated with great enthusiasm in the Altair Data Science Contest conducted by APOGEE, BITS Pilani (Birla Institute of Technology and Science, Pilani - Rajasthan) in April 2024. This event was taken up by the Centre of AI/ ML and Data Science (CAMD), Department of Computer Science. Out of 10 Consolidation prizes 4 Prizes were grabbed by students of Manav Rachna University.
38. Disha Panigrahy and Shivank Solanki, Department of CST are among the 5% toppers for the NPTEL course The Joy of Computing using Python.



39. Ashwani Soni, Department of CST is among the 5% toppers for the NPTEL course Getting Started with Competitive Programming.
40. Anoushka Pandey, Department of CST is among the 2% toppers for the NPTEL course Ethics in Engineering Practice.
41. Ayush Varshney, Department of CST is among the 2% toppers for the NPTEL course Privacy and Security in Online Social Media.
42. Ananya Mishra, Department of CST is among the 2% toppers of the NPTEL course Cloud Computing and Distributed Systems.
43. Disha Panigrahy, Department of CST is among the 5% toppers of the NPTEL course Programming, Data Structures And Algorithms Using Python.
44. Sanidhya Madhav Shukla, Department of CST is among the 5% toppers of the NPTEL course Design, Technology and Innovation.
45. Ashwani Soni, Department of CST is among the 2% toppers of the NPTEL course Programming, Data Structures And Algorithms Using Python.
46. Poonam Biswas, Kanan Arora, and Mansi Gusian, Department of CST emerged victorious in the cricket match during the 10th MREI Girls Sports Meet on 8th Feb 2024.
47. Anmol, Ramya, Udit, Ranveer, Kavya, Ishita and Mann, Department of CST were the part of team RUDRA that participated in Gasolina: A group dance competition organized by SGT University and secured 3rd position.
48. Mark Emmanuel, Ankit Bhardwaj, Chirag Khandelwal, Department of CST secured First Position in "Tech Showcase" on 28th of March 2024, organized by Department of Electronics and Communication Engineering, Manav Rachna University, for presenting a project on Hand Gesture Controlled PC.
49. Khwahish Farid, Department of Mechanical Engineering got Silver Medal in NPTEL Course of **"United Nations Sustainable Development Goals"** with 85% in the month of April-2024.

50. Gaurav and Khushal, Department of Mechanical Engineering got Silver Medals in NPTEL Course of “**Product Design and Manufacturing**” with 82% and 75% in the month of April-2024 respectively.
51. **Shubham Dhama**, School of Management and Commerce, won the 3rd prize in the Open Mic competition conducted by the New Delhi Institute of Management on 8th March 2024.
52. **Chirag Dev, Ayush Behl, and Ayush Tyagi**, School of Management and Commerce secured the 1st prize in a Case Study competition organized by the E-Cell at Maitreyi College, Delhi University on 18th March 2024.
53. **Om Chaudhary**, School of Management and Commerce achieved 12th place in the 25 Meter Standard Pistol Team Event and 59th place in the 25 Meter Standard Pistol Junior Men Individual Event at the All India National Shooting Championship, which took place from November 19 to December 9, 2023.
54. **Om Chaudhary**, School of Management and Commerce clinched two bronze medals in Sports Pistol and a hat-trick of gold medals in the 25-meter Standard Pistol category in the State shooting Competition held on 5th -14th July, 2024.
55. **Vani Kaushal**, School of Management and Commerce bagged the bronze medal in 10m Pistol Junior Women in Haryana on 31st July, 2024.
56. Ishpreet Kaur, Department of ECE secured first position in Women Cricket at Manav Rachna Inter College Sports Tournament 2024.
57. Ishpreet Kaur, Department of ECE secured first position in Women Basketball at Manav Rachna Inter College Sports Tournament 2024.
58. Ishpreet Kaur, Department of ECE secured second position in Women Volleyball at Manav Rachna Inter College Sports Tournament 2024.

6.2 Beyond the Classroom: Extra-Curricular Activities by the Department of Student Welfare

The holistic development of students is a key priority at Manav Rachna University, and the Department of Student Welfare (DSW) plays a pivotal role in nurturing talents beyond the academic sphere. This chapter highlights the diverse range of extra-curricular activities organized by DSW, aimed at fostering leadership, teamwork,

creativity, and social responsibility among students. From cultural festivals and sports tournaments to workshops, community service initiatives, and student clubs, these activities provide an enriching platform for personal growth, skill development, and the creation of lasting memories during their university journey.

Below are the details of the events organized by Department of Student Welfare along with the major highlights:

S.No.	Title of the event	Date
1.	Audition Round for Rehnuma literary society	01-08-2023
2.	Audition Round for Khalbali drama society	02-08-2023
3.	Audition Round for Noora fashion society	04-08-2023
4.	Audition Round for Rudra dance society	04-08-2023
5.	Audition Round for Moksh music society	09-08-2023
6.	Audition Round for Felicia art society	10-08-2023
7.	Project handmade papers- creating designer sheets from used papers	09-08-2023
8.	Session on Financial security	10-08-2023
9.	Poetry competition world youth day	10-08-2023
10.	Sustaini-Verse reel competition on nature	13-08-2023
11.	Flashmob on Independence Day	14-08-2023
12.	Quiz Competition on IndependenceDay	17-08-2023
13.	Reel making on meri maata mera desh	17-08-2023
14.	Sports trial for students (cricket,volleyball,basketball,football)	17-08-2023
15.	Just a minute : Debate Competition	17-08-2023
16.	Gamenics auditions	17-08-2023
17.	Drishti society auditions	24-08-2024
18.	Flashmob on India's successful landing on moon by Chandrayaan	24-08-2023
19.	Editorial team auditions	29-08-2023
20.	Poster making competition on sdg5	10-09-2023
21.	Just a minute -debate competition on peace conflict and resolution	21-09-2023
22.	Karisma personality development society workshop for introduction	21-09-2023

23.	Workshop on Lightroom	21-09-2023
24.	GD GOENKA fest participation and winning by Noora fashion society	27-09-2023
25.	becoming your personal stylist	29-09-2023
26.	Checkmate chess competition	19-10-2023
27.	Jugaad best out of waste	19-10-2023
28.	scavenger Hunt was organized to make students feel charged after studies	19-10-2023
29.	Dandiya Night organized in campus to celebrate Navratri	20-10-2023
30.	Debate competition youth parliament	26-10-2023
31.	Khel Khelo, sports event	26-10-2023
32.	Ethnic day, fashion festival to celebrate Diwali	02-11-2023
33.	Poster making competition FIT INDIA	22-11-2023
34.	How to deal with exam pressure session	23-11-2023
35.	Fresher's Party for batch 2022 and 2023	28-11-2023
36.	Sports week	9 to 12-01-2024
37.	Kites making from scrap	11-01-2024
38.	Lohri celebration	12-01-2024
39.	Voice your idea	12-01-2024
40.	International day of education- debate competition	18-01-2024
41.	Democratic Dazzle: A Quiz Extravanza	25-01-2024
42.	Jalmanch film festival	01-02-2024
43.	The Art of Silent Communication	08-02-2024
44.	Group Discussion on Cyber Fraud: Awareness	08-02-2024
45.	Vasant Panchmi Celebration	15-02-2024
46.	BGMI & TEKKEN 7 games	15-02-2024
47.	Eco-rang online video competition	25-04-2024
48.	Tie & Run sports competition	28-03-2024
49.	Karaanjali- Art competition	18-04-2024
50.	Poster making competition- Civil Day	18-04-2024
51.	Farewell batch 2024	03-05-2024

Few Glimpses of the events:

6.3 Exploring Horizons: Industrial and Exhibition Visits

1. The School of Law organized A Field trip to the Hon'ble High Court of Delhi for students to provide them with first-hand experience of the Indian Judicial System on 29th August 2023.



2. Students of School of Law visited Rashtrapati Bhawan on 16th September 2023.



3. Students of the School of Law attended Jan Bhagidari G20 University Connect organized by the G20 Secretariat on 26th September 2023. Hon'ble Prime Minister Shri Narendra Modi graced the Event.



4. School of Sciences (Chemistry) visited Arbro Pharmaceuticals Pvt. Ltd (Analytical division), New Delhi and Waste to wonderland theme park, New Delhi on 13th October 2023.



5. School of Sciences (All programs) visited to DBT-THISTI for India International Science Festival 2023 EXPO on 19 January 2024.



6. School of Sciences (All programs) visited to Water and Waste Management Conclave on 6th February 2024 at Tamarind Hall, India Habitat Centre, New Delhi



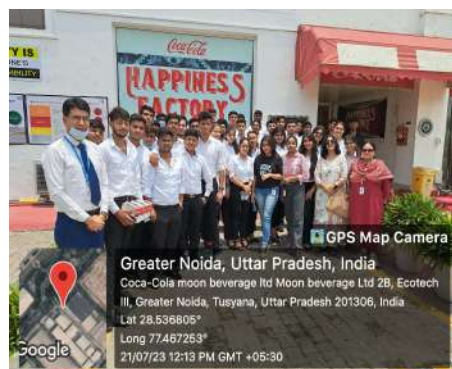
7. School of Sciences (Mathematics) visited IIT Delhi Campus on 25th January 2024 as an academic visit.



8. School of Engineering, ME Department visited **"Parametric Designs and Solutions, Gurugram"** on 28th March 2024 to explore 3D Printing Technology.



9. School of Management and Commerce organized an Industry Visit to **Moon beverages (Coca Cola bottling Plant) Greater Noida** on 21st July 2023 & 23rd August, 2023.



10. The Innovation & Entrepreneurship Club, under the Pre-Incubation Unit at Manav Rachna University, organized an industrial visit to the **National Small Industries Corporation (NSIC)**, under the Ministry of Micro, Small, and Medium Enterprises (MSME) of the Government of India on September 21, 2023.



11. School of Management and Commerce, Manav Rachna University planned an Industry Visit to **India International Trade Fair 2023** on 20 th Nov 2023.



12. In February 2024, students participated in various trips: a three-day spiritual and educational excursion to **Rishikesh and Patanjali Yogpeeth** from February

23rd to 25th with 31 students; a visit to Amul Banas Dairy on February 27th with 40 students; and a tour of Amrita Hospital on February 22nd with 14 students.



13. In April 2024, School of Management and Commerce visited industrial visits: **Haier Appliances India Pvt Ltd** in Noida on April 3rd, followed by 23 students on April 10th; 38 students touring **Devshri Animal Shelter** on April 5th; and 42 students visiting **AIC IIT in Sonipat** on April 25th.



14. The industrial visit to **Jai Bharat Maruti (JBM)**, Gurugram was organized by School of Management and Commerce for students on 26th July, 2024. The purpose of the visit was to provide students with real-world acquaintance to the manufacturing practices and operational strategies of a leading automotive component manufacturer as JBM is renowned for its expertise in producing high-quality components for major automobile manufacturers.



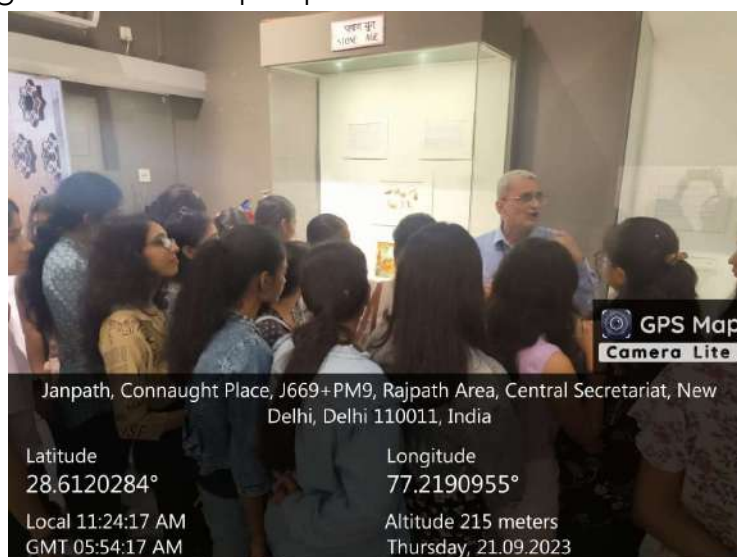
15. The BBA students of the School of Management and Commerce (SOMC) at Manav Rachna University undertook an industrial visit to **Victoria Auto (P) Ltd.**, a prominent player in the automotive industry on 26th July, 2024. This visit aimed to bridge the gap between theoretical knowledge and practical application, providing students with firsthand experience of industrial operations and management practices.



16. An educational trip was organized by School of Education and Humanities, Manav Rachna University for the students of Integrated B.Sc.B. Ed program on 15th February 2024 to the National Science Centre, New Delhi. The objective of the visit was to deepen the comprehension of diverse scientific ideas through engaging exhibits and educational displays.



17. School of Education and Humanities, Manav Rachna University organized a field visit to the National Museum Delhi on 21st September 2023 for the Integrated batches of B.A. Ed semester 1, 3, and 5 of Manav Rachna University. The objective of conducting this visit was to enhance the students' understanding and appreciation of Indian history, art, and culture, connect with their roots, and gain a broader perspective on our nation's diverse heritage.



18. Department of Electronics and Communication Engineering organized a visit to IREE 2023 on 12 October 2023



19. The Department of Electronics and Communication Engineering organized a visit to **Desmania India Pvt. Ltd. in Aug. 2023**



20. Project Exhibition “Tech Showcase” was organized by the Department of Electronics and Communication Engineering in March 2024.



6.4 Welcome Aboard: Orientation 2K23 for UG, PG, and Ph.D. Students

Deekshaarambh 2023, the Orientation Program at Manav Rachna University, welcomed students wholeheartedly with great gusto marking the beginning of the session 2023-2024. The major objective of the programme was to make the parents and students aware of the academic aspects, the rules and regulations of the university and ensuring parental participation in monitoring the performance and progress of students.

The university's orientation programme aimed to welcome and acquaint new students with the campus environment and provide them with a taste of the diverse cultural offerings on campus.

The orientation was a blend of various meaningful sessions like Interaction: Mentor Mentee session, encouraging students to build meaningful relationships with their academic mentors, who would guide them throughout their journey at MRU, session on Desired Sustainability Behavior followed, emphasizing the importance of eco-conscious actions and sustainability practices, Campus to Corporate session prepared students for professional success, offering insights into the transition from academic life to corporate environments.

Other essential sessions included UHV1, focusing on universal human values, and discussions on Anti-ragging and Discipline, ensuring students are aware of university policies promoting a safe and respectful campus environment. A Culture of Research & Innovations was also introduced to ignite students' curiosity in academic research and creative pursuits, while Library Activities showcased the vast resources available for academic growth.

Students were introduced to the Student Facilitation Centre, which provides administrative and academic support, and the Centre of Foreign Languages, offering opportunities to learn new languages and explore international collaborations. In addition to the informative sessions, students enjoyed an energetic Sports Wari indoor and outdoor event to promote fitness and team spirit.

Special attention was given to important topics like Gender Sensitization, alumni engagement through the Alumni Relation Office, and building a positive digital presence with a Social Media session.

The department-specific orientations included Skill Development Workshops, where students learned industry-relevant skills, setting the tone for their academic journey at MRU. The event was a holistic blend of information, interaction, and inspiration, setting the stage for a successful year ahead.

Few Highlights of the Orientation Program are given below:



Manav Rachna University Ph.D. Orientation Program Batch 2023-24

Manav Rachna University welcomed the eleventh batch of Doctoral Program in Orientation ceremony held on August 19th, 2023. The orientation program was aimed at stirring the innate potential of every scholar who will now be walking the campus for their journey towards Doctoral Degree next few years.



6.5 Highlights from the Ninth Convocation Ceremony

The 9th Convocation Ceremony of Manav Rachna University took place on 28th October 2023, marking a momentous occasion for the institution and its graduating students. The event was graced by Padma Bhushan Prof. (Dr.) Padmanabhan Balam, an esteemed biochemist and former Director of the Indian Institute of Science, Bangalore, who served as the Honorable Chief Guest.

In a ceremony rich with tradition and pride, honoris causa degrees were awarded to six luminaries, including Padma Vibhushan MC Mary Kom, renowned Indian boxer, and Ex Chief Justice U U Lalit, in recognition of their outstanding contributions in their respective fields.

Degrees were conferred upon a total of 424 undergraduate, 38 postgraduate, and 4 Ph.D. graduands, celebrating their academic achievements and readiness to embark on their professional journeys. In addition, 19 individuals were honored with special awards and medals for their exceptional performances, leadership, and contributions to the university community.

The convocation was a celebration of academic excellence, perseverance, and the bright futures that await the graduating class, highlighting Manav Rachna University's commitment to nurturing future leaders and innovators.



6.6 Vibrant Alumni Network Events

A strong and engaged alumni network is a cornerstone of Manav Rachna University's success, and the university prides itself on maintaining meaningful connections with its graduates. This chapter showcases the dynamic range of alumni events organized throughout the year, aimed at strengthening bonds between alumni and the university. From networking meetups and mentorship programs to industry talks and social gatherings, these events provide a platform for alumni to stay connected, share their achievements, and contribute to the growth of both current students and the institution.

Below are the details of the Alumni Network events organized:

S.No.	Name of the activity	Date	School/ Department	Name of Alumni
1.	Alumni Interaction Session in Orientation	21.07.2023	Education	All Alumni

2.	Alumni Interaction on Role of Flow Structures in Heat Transfer Enhancement	25.07.2023	Engineering/ ME	Dr. Naveen Sharma, Assistant Professor, Netaji Subhas University of Technology, New Delhi.
3.	Session on Guiding students for higher studies in securing fully funded research and development programs at Indian and foreign universities	12.10.2023	Sciences	Ms. Shruti Gulihar
4.	Session on Celebrating Success	17.10.2023	Engineering/ CST	Mr. Lakshay Mittal
5.	Enhancing Communication Skills	19.10.2023	Education	Ms. Asmita
6.	Session on "Tips for Thriving in the Real World"	20.10.2023	Engineering/ ECE	Ms. Shweta Gusain, Associate Consultant, E&Y LLP
7.	Alumni Talk on " Corporate Culture and Resume Writing"	20.10.2023	Management	Mr. Archit Gupta and and Mr. Desh Pareekh
8.	Interactive Session by the Alumni on Exam Stress Management	24.11.2023	Law	Mr. Aditya Choudhary and Mr. Raghav Singh Dhariwal, Advocates
9.	Workshop on Code and Innovate	12.01.2024 to 15.01.2024	CST	Mr. Suyash Sharma, Software Engineer, IDEMIA
10.	Career Pathways: Navigating Ph.D. and Research Opportunities in Advanced Technology Institute	09.02.2024	Engineering/ ECE	Ms. Parnika Gupta, Researcher, Tyndall National Institute, Ireland and Ms. Ojasvi Gupta, Masters, Technical University, Dublin
11.	Alumni Talk-Navigating Government sector jobs after graduation: Insights from Alumni	01.04.2024	Management	Mr. Gaurav Sharma, HR Officer, Powergrid corporation of India
12.	Alumni Talk on Guidance for various Carrier Options after UG and PG Program in Sciences	02.05.2024	Chemistry	Ms. Riya Chugh, Assistant Professor, MRIIRS

Few Glimpses of the events:



6.7 Inspiring Minds: Webinars, Expert Talks, and Workshops for Students

At Manav Rachna University, continuous learning extends beyond the classroom through a wide array of intellectually stimulating webinars, expert talks, and workshops. This chapter highlights the initiatives undertaken to connect students with industry leaders, academics, and professionals from various fields. These interactive sessions provide valuable insights into emerging trends, practical knowledge, and real-world experiences, empowering students to broaden their horizons and enhance their skill sets. By fostering a culture of lifelong learning, MRU ensures that its students are well-equipped to navigate the challenges of the modern world.

Below is a brief overview of the key events and sessions held throughout the year, illustrating the impact of these learning opportunities on our students.

S.No.	Name of the Event/Session	Date	Name of the agencies/consultants involved with contact details (if any)
1	Orientation Session - SHL (AMCAT)	26-09-2023	Mr. Ankur Kumar Aggarwal, Mr. Shubham
2	Be ready for IAS (by Samkalp Vedhik)	27-09-2023	Mr. Vipin Yadav
3	Skill Assessment and Industry Gap Mapping by SHL (AMCAT)	03-10-2023	Mr. Ankur Kumar Aggarwal, Mr. Shubham
4	Skill Assessment and Industry Gap Mapping by SHL (AMCAT)	04-10-2023	Mr. Ankur Kumar Aggarwal, Mr. Shubham
5	Skill Assessment and Industry Gap Mapping by SHL (AMCAT)	06-10-2023	Mr. Ankur Kumar Aggarwal, Mr. Shubham
6	BootCamp-PrePlacement Crash Course	24-07-2023	Mr. Ankur Kumar Aggarwal
7	BootCamp-PrePlacement Crash Course	30-10-2023	Mr. Ankur Kumar Aggarwal
8	Session on How to be Corporate Ready from day 1	26-07-2023	Mr. Anurag Upadhyay, Manager at Accenture
9	International Webinar on the Topic entitled Generative AI	29-01-2024	Mr. Saurabh Sharma (Technical Architect, Ecommerce, AWS and Cloud SME working in IBM, London, UK)
10	Session on Robotic Process Automation by UiPath	19-01-24	Mr. Abhijeet Sreenivas, Program Manager-Learning Alliances UiPath

11	Session on Guiding Students for Competitive examinations	13-02-2024	Mr. Varun Yadav, Assistant Professor
12	Chips for Viksit Bharat Laying of Foundation Stone of Three Semiconductor facilities	13-03-2024	Live Address by Hon'able Prime Minister Shri Narendra Modi
13	Expert Talk on Role of HDL and HVL in ASIC/SOC Design & Verification	14-03-2024	Mr. Shashikant Sharma, Knowledge Associate, Truechipsolutions Pvt. Ltd. Noida
14	Empowering Women in Villages Through Agricultural Drones	11-03-2024	Live Address by Hon'able Prime Minister Shri Narendra Modi
15	Workshop on Solar Energy-Technology and Systems	14-03-2024 and 15-03-2024	Dr. Shiv Kumar Dixit, Assistant Professor
18	Workshop on MATLAB	15-02-2024, 22-02-2024, 29-02-2024	IETE Student Forum
19	Workshop on Meditation: A Wellness Tool	20-09-2023	Swami Medhanand Ji, President, Maharshi Dayanand Yogdham Ashram, Faridabad.
20	Seminar on Keeping peace with Gatekeeper of Peace to Curtail Pancreatic Cancer	23-02-2024	Dr. Rajender K Motiani from Regional Centre for Biotechnology, Faridabad
21	Workshop on Technological Trends in Teaching and Learning	21-02-2024	Dr. Mohd Mamur Ali (Assistant Professor, Department of Teacher Training and Non-Formal Education, IASE, Faculty of Education, Jamia Millia Islamia, New Delhi)
22	Workshop on Research Methodology	15-02-2023	Dr Amit Ahuja, Associate Professor , USE, GGSIPU
23	Extension Lecture on E-Waste Management	12-01 -2024	Dr Renu Sharna, Head of Program, HME Waste Management

24	Investor awareness program on Let's talk about our money: A way to entrepreneurial Development	10-08-2023	Mr. Surya Kant Sharma, Senior consultant, AMFI, Ex-DGM, SEBI
25	Session on Career Counseling	21-08-2023	Dr Akshita Bahuguna, Entrepreneur, Career Counsellor
26	Career Panel Discussion	20-07-2023	Mr. Jeetender Gupta, Advocate on Record, Supreme Court of India, Mr. Roopesh Sharma, Former Additional Advocate General, Supreme Court of India, Ms. Akansha Tripathi, Counsel, Indian International Arbitration Centre (IIAC)
27	Session on Career in Insolvency and Bankruptcy Laws	29-08-2023	Mr. Swarnendu Chatterjee, Founder, Law Chambers of Swarnendu Chatterjee & Advocate-on-Record, Supreme Court of India
28	Rural School Rights Workshop	24- 11-2023	GSSS Bhankri Village for Legal Awareness
29	Workshop on Cyber Awareness and Cyber Security	26-07-2023	Mr. Pawan Duggal, Advocate Supreme Court of India
30	Mediation Boot Camp	28-09-2023 to 29-09-2023	Mr. Jonathan Rodridgues, CouFounder, The PACT
31	Live Training by Cyber Cell Experts at IFSO	15-02-2024	The Intelligence Fusion & Strategic Operations (IFSO) /CCU, Delhi Police- Special Unit
32	Talk on Law and Technology	02-05-2024	Mr. Krishna Deo Singh Chauhan, Associate Professor, O.P. Jindal Global University

33	Workshop and Training by Forensic Laboratory Expert	22-02-2024	Ms. Neha Jha, Mr. Adarsh Mishra, Forensic Lab experts.
34	Workshop- Mastering Contract Drafting and Legal Document Preparation	23-02-2024	Mr. Tushar Khandelwal, Corporate Lawyer, Bharti Airtel Ltd.
35	Moot Court Competition	01-03-2024 to 02-03-2024	Justice R. C. Lahoti
36	Workshop on Regulating Digital Markets: the Ex Ante way	29-04-2024	Mr. Navneet Sharma, Director General, CIRC
37	Interactive Session on Mediation	01-05-2024	Mr. Ritik Arora, 3rd Year, School of Law, MRU
39	Guest Lecture on Commercialization of IPR	22-02-2023	Ms Kanika Dhingra, Assistant Professor, NLU Jodhpur
40	Centre for Legislative Studies and Research Committee conducted a boot camp in association with All India Lawyers forum on Introduction to Research and Abstract Writing"	20-10-2023	CLSR- Dr. SK Bose
41	Interactive Session on Mediation and Client Counseling	26-02-2024	Ms. Priyanka Walter, Final year student, SOL,MRU
42	Strategies for excelling in the legal profession globally	01-02-2024	Mr. Abhijit Narayan, head of the Indian desk for hengeler Mueller (German Law Firm)
43	Guest lecture on Career prospects in Banking Sector	09-08-2023	Head, PDC Indian Institute of Banking & Finance
44	Career Counseling session on BFSI Session	12-04-2024	MR. N.K. Bhasin, North Head, IIBF

45	Online Guest Lecture on Decoding Hypothesis testing- Revealing the Insights	19-08-2023	Dr. Shivoham Singh, a recognized expert in the field of statistics.
46	Guest lecture on Role of Fintech in Banking Sector	18-09-2023	Vice President from the London Institute of Banking and Finance (LIBF)
47	Session on Enhancing Financial Awareness for Future Business Leaders: Navigating the financial landscape.	20-11-2023	empaneled with Securities and Exchange Board of India (SEBI), NSE, BSE, NISM, PFRDA, CIEL and NCDEX
48	Workshop on Digital Marketing	12-10-2023 to 17-10-2023	Mr. Anurag, Digital Marketing Expert. Yung Minds
49	HR Horizons: Excel Essentials Workshop	03-04-2024	Dr. Animesh Singh, Associate Professor
50	Business stimulation	12-03-2024- 15-03-2024	Dr Bindu Agrawal – Master Simulation Coach Dr Pragati Chauhan, Prof -SMC MRU & Simulation Coach
51	Workshop on Co-PO attainment	14-05-2024	Dr. Sunil Kumar Roy, HOD, SMC
52	Workshop on Bibliometric Analysis	14-05-2024	Dr. Geetanjali Batra, ABVSM, JNU
53	Expert session on designing a Questionnaire	10-02-2023	DAV Century College
54	Quizander- Business Quiz	24-04-2023	Dean, SMC
55	Quiziverse	26-10-2023	Dean, SMC
56	Logic Wars- Where Ideas Collide	22-02-2024	Dr. Animesh, Associate Professor, SMC Dr. Yogita Sharma, Associate Professor, SMC

57	Quizmania: Kahoot Showdown	14-03-2024	Dr. Sunil Kadyan, Associate Professor, SMC Ms. Srishti Bathla, Assistant Professor, SMC
58	Brand Mines	26-04-2024	Ms Shagun Chahal, Assistant Professor, SMC
59	Business Quiz	30-04-2024	Dr. Gurpreet Kaur, Associate Professor, SMC
60	Alumni Interaction on Employability Skills	08-11-2023	Mr. Ayush Kumar Jha, Member Technical in Automatic Data Processing, Pune.
61	Session on Creating Stable Mind in Challenging Times	23-08-2023	BK ER. Sonika, Rajyoga Teacher and Trainer
62	Movie Screening Session on Gender Sensitization	14-03-2024	India's Daughter
63	International Webinar on Introduction to Wavelets	25-09-2023	Prof. Maria Skopina, Department of Higher Mathematics, St. Petersburg University, Russia.
64	Invited Talk on "Applications of Mathematics in Data Sciences"	22-11-2023	Prof.(Dr.) Mansaf Alam, Professor, Deptt. of Computer Sciences, Jamia Millia Islamia , New Delhi.
66	Applications of Probabilty & Statistics	27-03-2024	Prof.(Dr.) Ranjita Pandey. Professor , Deptt. of Statistics , University of Delhi.
67	Invited Talk on Approximation Theory & Its Applications	25-04-2024	Prof.(Dr.) Vijay Gupta, Dean Research & Professor , Deptt. of Mathematics , NSUT, New Delhi.
68	International Webinar on Emulsion Polymerization of Styrene by C1EG Ionic Liquid	12-10-2023	Prof. Rene Dario Peralta Rodriguez , Centre for Research in Applied Chemistry, Saltillo Mexico

69	International Webinar on Toward Infinite Origami Materials	31-10-2023	Prof. Bungo Ochiai, Department of Chemistry and Chemical Engineering, Yamagata University, Japan
71	Lab Safety Training & Demonstration of Double Distillation Unit	22-02-2024	Mr. Aditya Sharma, Sr.Executive (Sales), Borosil Scientific Ltd, Delhi
74	Expert Talk on Application of Micron and Nanotechnology	21-11-2023	Prof. V.K. Jain, Amity University, Noida
75	Seminar on G20 overview and its focus on the SDG's	21-09-2023	IETE Student Forum



CHAPTER: 7

SDGS AT MANAV RACHNA UNIVERSITY

Manav Rachna University (MRU) has showcased a robust commitment to sustainable development goals (SDGs) throughout the previous academic year. Across various domains such as education, research, campus operations, community engagement, and student involvement, MRU has actively pursued and implemented sustainable practices.

Introduction:

Manav Rachna University acknowledges the significance of sustainable development, integrating the Sustainable Development Goals (SDGs) seamlessly into its strategic vision. Through this alignment, MRU endeavors to cultivate a sustainable campus environment, drive research towards viable solutions for sustainability challenges, and inspire a sense of responsibility in its students, empowering them to be proactive agents of positive change.

7.1 KEY INITIATIVES

7.1.1 Sustainable Campus Operations:

- The university has all the water management techniques aligned for the purposes of ensuring sustainable development by minimizing the usage and subsequent wastage of water. The university has established various water management techniques which follow the statutory environmental laws as has also been highlighted under the Haryana State Action Plan on Climate Change.
- MRU has entered into and executed all the necessary relevant agreements with the registered and approved organizations for the purposes of e-waste management, solid waste collection and handling, safe disposal of hazardous waste (used/waste lube oil) and bio-medical waste management. The university is also in compliance with all the terms of the said agreements executed between the university and the respective organizations.
- Manav Rachna University is actively engaged in addressing solid waste management through its dedicated initiative, "Project Journey - Waste to Resources." This comprehensive project encompasses a multifaceted approach that includes creating awareness through events and competitions conducted in schools and villages. By organizing these educational initiatives,

the university aims to instill a sense of responsibility and promote sustainable waste management practices within local communities.

.1.2 Curriculum Integration and Research:

- MRU revised its academic curriculum to incorporate sustainability-related courses across various disciplines.
- The university facilitated interdisciplinary research projects addressing environmental, social, and economic sustainability challenges.
- Students and faculty members were encouraged to conduct research and publish papers on sustainable development topics.
- Curriculum Mapping and Integration of Sustainable Development Goals (SDGs) through project-based Learning at Manav Rachna University In the realm of modern education, the role of curriculum mapping is pivotal in aligning educational objectives with desired outcomes. In the context of academic teaching and learning, the United Nations Sustainable Development Goals (SDGs) provide a comprehensive framework for addressing global challenges. Manav Rachna University has recognized the significance of SDGs as a guiding tool for developing a curriculum that promotes holistic education and sustainable development. Manav Rachna University employs curriculum mapping with SDGs and integrates Project-Based Learning (PBL) to cultivate skills and competencies among students to contribute to the achievement of these goals.

7.1.3 Course on Essentials of Peace and Sustainability

Course offered as an elective subject to undergraduates of Manav Rachna

Manav Rachna Centre for Peace and Sustainability, at Manav Rachna University, has developed an insightful course entitled 'Essentials of Peace and Sustainability.' This course is made available to undergraduate students as an elective subject, with the primary objective of fostering greater awareness of the ambitious Sustainable Development Goals (SDG) agenda of 2030, its various components, and imparting the knowledge and skills required for peace-building. The course draws upon experiential and project-based learning approaches, as well as collaborative and cooperative learning strategies, to provide learners with a comprehensive and immersive educational experience. As part of the course, students select a specific SDG

and propose a solution based on their acquired knowledge in their respective domains, making the learning experience both practical and impactful.

7.1.4 Community Engagement:

- MRU actively engaged with the local community through awareness campaigns, workshops, and seminars on sustainable living practices.
- The university organized events, such as tree plantation drives and clean-up campaigns, to promote environmental stewardship.
- MRU collaborated with local NGOs and government bodies to support community development initiatives related to education, health, and environmental conservation.

7.1.5 Student Involvement and Empowerment

- MRU established student-led sustainability clubs to raise awareness and drive sustainable initiatives on campus.
- Students participated in sustainability-focused competitions, hackathons, and conferences, fostering innovation and creativity.
- The university provided internships and volunteering opportunities in sustainability-related organizations to enhance students' practical understanding.

7.1.6 Environmental Impact:

- Significant reduction in energy consumption through efficient lighting systems and solar power generation.
- Water conservation efforts resulted in a substantial decrease in water usage.
- Proper waste segregation and recycling practices led to a considerable reduction in landfill waste.
- Research and Publications
- Increased research output on sustainability topics, resulting in several research papers, publications, and patents.
- Interdisciplinary research projects addressed critical sustainability challenges, contributing to the body of knowledge in the field.

7.2 About Manav Rachna Centre for Peace and Sustainability (MRCPS)

MRCPS was established under the guiding principles of the visionary and legendary academician and nation-builder, Dr. O.P. Bhalla, who championed the cause of knowledge, values, and ethics to establish peace and sustainability. It is a hub of academic endeavors, training, research, community awareness programs, and more, dedicated to all spheres of peace and sustainability. Established on October 2, 2019, MRCPS envisions promoting peace and supporting the development of India's peace operations through the power of youth. It is the epicenter of peace and sustainability activities, focusing on education, training, value inculcation, attitude formation, research, policy-making, collaboration, and networking. MRCPS's Advisory Board comprises luminaries such as Padma Vibhushan Dr. Karan Singh as Chairman, former Chairman of UGC, former member NDMA, Chairman of Terre Policy Centre, UNEP, Founder of WISCOMP, Head of the Department of Psychology at Delhi University, Chairperson of Bharat Soka Gakkai (BSG), and Retired Officer in Chief- Indian Army, among others.

UN's Development Agenda for 2016-2030 i.e. "Transforming our World: the 2030 Agenda for Sustainable Development" comprising 17 Sustainable Development Goals (SDGs) and 169 related Targets have been adopted and signed by the Government of India in Sept 2015. There is already a strong interest in and response to the ambitious 2030 Agenda for Sustainable Development by governments, international agencies, businesses, civil society and other institutions in UN member countries. The SDGs also have strong relevance to universities and Higher Education institutions as education and research are explicitly recognised in a number of the SDGs. Universities play an important role as a convener and facilitator of support processes of SDGs to make an impact in our society. Realizing this responsibility towards nation and society, Manav Rachna University established Manav Rachna Centre for Peace and Sustainability (MRCPS) a center of excellence of Manav Rachna University, a visionary step for the Holistic Development of youth to build a Peaceful New Bharat. The centre was launched on 2nd October 2019, on the birthday of our father of nation. The centre is stirred by an eminent Advisory Board having very eminent luminaries from different domains.

The MRCPS is the epicenter of academic endeavors like: training, research, community awareness programmes in all spheres of Peace and Sustainability. The centre is the embryo for promoting new approaches towards ensuring

Sustainable Development and Peace at local, national and global level. This centre is going to be a think tank dedicated for promoting Peace, Security and Sustainable Development of the society.

7.2.1 VISION

- To bring Peace & Sustainability to humanity.

7.2.2 MISSION

- To study, educate, conduct training and promote research in all spheres of Peace & Sustainability.
- To propose and promote creative and new approaches towards ensuring Sustainable Development and Peace at local, national and global level.

7.2.3 OBJECTIVES

- To provide Education & Training in different aspects of Peace and Sustainable Development.
- To inculcate Values of Peace and Sustainability among students.
- To promote Research among youth in the area of Peace and Sustainability focusing on creation of sustainable communities with an attitude of health and well-being of all.
- To support Policy Making in the area of Peace at local, University, State and National level through research and experimentation.
- To promote Collaboration and Networking among promoters and practitioners.

Structure of MRCPS

MRCPS is presently focusing on six SDGs listed below:

1. SDG 3: Good Health & Well Being
2. SDG 4: Quality Education,
3. SDG 5: Gender Equality,
4. SDG 7: Affordable and Clean Energy,
5. SDG 8: Decent Work & Economic Growth
6. SDG 13: Climate Action,
7. SDG 16: Peace, Justice & Strong Institutions

MRCPS is making an attempt to contribute towards achieving the above mentioned SDGs through verticals SahRita, Parashakti, Prakarsh, Sadbhav and Samridha. MRCPS's five verticals, namely PARASHAKTI (Women empowerment), PRAKARSH (Quality Education), SAHRITA (Environment conservation), SAMRIDDHA (Economic Development), and SADBHAV (Health & Peace), focus on different six SDGs. The center has collaborated with UNESCO-MGIEP, IPRA, Heartfulness organization, among others. It encourages research projects under SDGs and introduces the Peace and Sustainability Student Club (MRPSC). MRPSC comprises Green Warriors striving for environment conservation, Peace Champions developing skills and attitude towards peace, and Gender Champions spreading awareness and putting efforts towards women's empowerment.

7.3 MANAV RACHNA CENTRE FOR PEACE AND SUSTAINABILITY VERTICAL

7.3.1 PRAKARSH

SDG-4 aims to ensure inclusive and equitable quality education and promote lifelong learning opportunities for all. It supports the reduction of disparities and inequities in education, both in terms of access and quality. It recognizes the need to provide quality education for all, especially vulnerable populations, including children from weaker sections of society, those with special needs, and indigenous and refugee children. SDG-4 is critical for sustainable development, as every child receiving quality education becomes a catalyst for positive transformation, breaking the cycle of poverty. Prakarsh, aligned with SDG-4, facilitates a steady progression towards an inclusive and equitable society, offering free yet quality education to all while promoting lifelong learning opportunities.

7.3.2 PARASHAKTI

MRU perseveres in continuous engagement with the local community, particularly women, to promote female education and empowerment through awareness campaigns and community programs. The university reinforces the promotion of its female staff in the organization based on merit and performance, ensuring gender parity and equity. This approach is designed to improve the representation of women in leadership positions and senior academic roles. MRU also provides 'Day-care' facilities on campus, creating a conducive environment for female teachers to work stress-free while ensuring their children are well cared for. Notably, Parashakti actively contributes to SDG-5 (Gender Equality), reinforcing MRU's commitment to fostering an inclusive and gender-equitable environment.

7.3.3 SAHRITA

Sahrita, a pivotal initiative at MRU, aligns its objectives with the global Sustainable Development Goals (SDGs) of SDG-7 (Affordable and Clean Energy) and SDG-13 (Climate Action). This comprehensive approach emphasizes the critical need for balancing innovative clean energy solutions with effective climate action, thereby contributing significantly to environmental sustainability and fostering the overall well-being of communities. Sahrita's

commitment to advancing clean energy and addressing climate challenges goes beyond mere compliance; it serves as a testament to MRU's proactive stance in mitigating the adverse effects of energy consumption and climate change. By incorporating sustainable practices and fostering awareness, Sahrita plays a crucial role in aligning MRU with international efforts to create a more resilient and ecologically responsible future.

7.3.4 SAMRUDDH

Inspired by SDG-8 (Decent Work and Economic Growth), Samruddh focuses on promoting inclusive and sustainable economic growth, full and productive employment, and decent work for students. Going beyond the goal of eliminating child labor, Samruddh aims to equip students with competence and skills that meet industry needs, fostering a capable workforce for the future.

7.3.5 SADBHAV

Sadbhav, rooted in compassion, aligns with SDG-16 (Peace, Justice, and Strong Institutions) as well as SDG-3 (Good Health and Well-being). The Manav Rachna Centre for Peace and Sustainability (MRCPS) at MRU strives to deconstruct societal binaries and disparities through initiatives like Wall of Peace and Sanvad. By emphasizing peace, justice, and strong institutions, MRU contributes to building inclusive societies, providing access to justice for all, and working towards global stability. Simultaneously, Sadbhav addresses health and well-being concerns, fostering a culture of empathy, goodwill, and faith within the university's value systems.

Manav Rachna Peace and Sustainability Club

MRCPS also introduced the Peace and Sustainability Club as Manav Rachna University has a strong faith in youth power and their conviction in making a better world.

The University assumes a pivotal role as a catalyst and enabler in supporting the processes of Sustainable Development Goals (SDGs) to create a meaningful impact on society. Emphasizing the belief in the power of youth to shape a better world, Manav Rachna University proudly introduces the Peace and Sustainability Club. Join hands with us to collectively strive towards achieving SDGs and fostering peace by being a part of this transformative club.

The Peace and Sustainability Club serves as a dynamic platform for addressing social, economic, and environmental issues. Together, we can initiate small yet impactful changes in our surroundings and within ourselves, contributing to a more positive and sustainable world. The cultivation of a peaceful attitude fosters a harmonious working culture that encourages excellence in

performance, a quality exemplified by top leaders. India, with its youth, has the opportunity to engineer peace and emerge as a global leader in this realm. Let's take the first step towards making our nation proud.

Recognizing that social impact holds greater prominence than purely economic operational performance, let's become globally aware citizens to showcase the brilliance of Manav Rachna and India on the world stage. International placements can be achieved by exemplifying the principles of "Engineering Peace" rather than just showcasing operational brilliance. Utilize this platform to enhance your career prospects.

Above all, adopting an attitude of peace empowers you to lead a meaningful life through your conduct and lifestyle, making a positive impact on those less fortunate. This commitment ensures peace through sustainability, making a lasting difference in the world.

7.4 The projects initiated by the Centre during 2023-24 are as follows:

Education for Sustainability Development Program: SUSTAINED



"SustainEd: Nurturing Tomorrow's Stewards" program is paving the way for a sustainable future by harnessing the potential of youth to become responsible global citizens. This innovative initiative trains university students to serve as ambassadors of sustainability throughout their academic journey and beyond. The program's curriculum is meticulously aligned with the Sustainable Development Goals (SDGs), ensuring that every department of the university plays a role in sustainable education. Additionally, value-added courses, such as "Essential for Sustainability," powered by OER and UNESCO, are attracting students from across India, highlighting the program's nationwide impact. Beyond the classroom, "SustainEd" organizes a series of awareness programs, including webinars, seminars, expert sessions, competitions, and international conferences, reinforcing the importance of sustainability. Level three of the program focuses on empowering enthusiastic students to connect with their communities and cultivate global sustainable citizenship, starting at the grassroots level. Through activities such as Nukkad Natak (street plays), peaceful rallies, cleanliness drives, and educational sessions, students actively engage with their localities to drive positive change.

Creating Heartful Campus

Heartfulness Campus is a sanctuary for holistic well-being and personal growth, dedicated to nurturing the mind, body, and soul. Rooted in the principles of heartfulness meditation, the campus provides a serene and uplifting environment for individuals seeking inner peace and spiritual awakening. The heartfulness approach, emphasizing the importance of the heart in meditation, serves as the cornerstone for a range of transformative programs and activities offered at the campus.

Through guided meditation sessions, wellness workshops, or immersive retreats, the campus invites participants to embark on a transformative experience, fostering a deep connection with their inner selves and promoting a harmonious balance of mind, body, and spirit. Heartfulness Campus stands as a beacon of tranquility and self-realization, providing a sanctuary where individuals can explore the path to inner peace and spiritual growth.

Second Stitch Towards Sustainable Fashion

The Manav Rachna Centre for Peace and Sustainability has embarked on an eco-conscious endeavor known as the "Second Stitch" project. This innovative

initiative involves the collection of old denim garments and the transformation of these discarded fabrics into stylish and sustainable bags or kits. The project not only encourages the recycling and upcycling of materials but also promotes the reduction of textile waste. "Second Stitch" is a shining example of the center's commitment to fostering environmental sustainability and harmony within the community, one stitch at a time. It serves as a reminder that by reimagining the potential of everyday items, we can contribute to a more eco-friendly and sustainable future.





KHUSHI

In a heartwarming display of gratitude and compassion, Manav Rachna Centre of Peace and Sustainability launched 'KHUSHI' under the Sadhbav vertical, with a noble purpose of spreading positivity and joy. The project involved volunteers interacting with total strangers, offering them a comforting and cherished hug of joy. This exceptional initiative, which began at the Pebble Downtown Mall, underlined the importance of acknowledging and appreciating the unsung heroes in our midst.

As a community, it reminded us of the power we hold to bring warmth into the lives of those who need it the most, ultimately making the world a better place, one hug at a time. Continuing the journey the other visit was planned in Gaushala promoting SDG 13 & SDG 15 sensitizing students for animal care. Students interacted with staff and provided fodder to cows.

CREATING HAND MADE PAPERS



In a proactive stride toward cultivating a sustainable campus and nurturing an eco-conscious ethos among students, a pioneering student-led initiative. This visionary project ingeniously repurposed discarded paper, breathing new life into it by crafting exquisite handmade sheets adorned with a vibrant palette of colors. This creative endeavor not only championed the cause of sustainability but also empowered young minds to become stewards of the environment. The manual production process of handmade paper imparts a distinctive variability that underpins artistic expression and individuality. Crafting handmade paper in the domestic sphere entails a series of intricate steps, encompassing the meticulous collection of paper waste, its immersion in water, blending into a pulpy mixture, construction of a carefully crafted paper mold, immersion and extraction of the mold in water, pressing and drying, and ultimately, the patient air-drying of the paper.



CHAPTER: 8

INTERNATIONAL RELATIONS

8.1	Office of International Affairs 8.1.1 Global Initiative - Memorandum of Understanding (MOU's) - Immersion Programs
8.2	International Panel of Experts
	International Alumni
8.3	International Events - Conferences - Webinar - Seminar - Workshop - Expert Talk - Extension Lectures - Activities Conducted - Faculty Development/ Achievement

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	2) Immersion Program	02	
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International Alumni		14	
International Events	-Webinar/ Session/ Guest Lecture/ Conference		
	-Faculty Development/ Achievement		

International Collaboration

Manav Rachna University (MRU) is a prominent institution in India, known for its commitment to providing high-quality education across various disciplines, including engineering, management, law, and the arts. Established with a vision to foster innovation and research, MRU emphasizes holistic development through a blend of academic rigor and extracurricular engagement.

The university has gained recognition for its robust international collaborations, partnering with esteemed institutions worldwide to enhance educational standards and opportunities. These collaborations facilitate student and faculty exchange programs, joint research initiatives, and global exposure, thereby enriching the learning experience and broadening the horizons for its academic community.

Office of International Affairs

Office of International Affairs shall be responsible for undertaking the following activities:

- ☐ To disseminate information related to admission process among prospective foreign students.
- ☐ To engage in promotional activities and brand building campaigns abroad.
- ☐ Single point of contact for carrying out all collaborative activities with the foreign institutes.
- ☐ Acts as a liaison body between the foreign students and sponsoring agency.
- ☐ To coordinate all matters relating to welcoming and supporting foreign students.
- ☐ To address the grievance of foreign students and sponsoring agency.
- ☐ Single point contact for registration with FRRO/e-FRRO.
- ☐ To facilitate networking with fellow students.



□ To extend all possible help to the foreign students to adapt to the new cultural environment and make their stay in India comfortable and enriching.

Our team

S.No	Faculty Members	Department
1	Prof. (Dr.) Meena Kapahi	Sciences
2	Ms. Savitta Saini	Prog. Mathematics
3	Dr. A. Jayamani	Prog. Chemistry
4	Dr. Abhishek Saxena	CST
5	Dr Piyush Charan	ECE
6	Dr J P Sharma	ME
7	Dr. Pooja Parmar	Education & Humanities
8	Ms. Chaitali Wadhwa	Law
9	Dr. Vandana Zutshi Bhat	Management & Commerce

MOU's WITH FOREIGN UNIVERSITIES/INSTITUTES

Sl. No	Name of the University	Country	Date of Signing	
1	Vilnius Gediminas Tech University	Lithuania	09-Jun	2023
2	Politehnica University Timisoara	Romania	05-Jul	2023
3	William Paterson University	USA	30-Nov	2023

4	PIHMS (Pacific International Hotel Management School)	New Zealand	23-Sep	2023
5	Queensland University	Haiti	09-Jan	2024
6	American University	USA	24-Apr	2024
7	Hellenic American University	USA	24-Apr	2024
8	INTI Universiti	Malaysia	20-Jun	2024
9	Tashkent State University	Uzbekistan	27-Jun	2024
10	Synergy University	Malaysia	27-Jun	2024
11	Sheridan College	Canada	21-Jun	2024
12	FTP University	Vietnam	20-Jun	2024

International Panel of Experts

Prof. Joonki Paik Department of Image Science Chung-Ang University Seoul South Korea	
Dr. Meenakshi Arora Assistant Dean (International Student Pathways) Director, Melbourne India Postgraduate Academy Associate Professor (Department of Infra. Engg.) The University of Melbourne, Australia	

Prof. Maria Skopina Department of Applied Mathematics and Control Processes St. Petersburg State University, Russia	
Prof. Luis Martinez Department of Computer Science, University of Jean, Spain	
Prof. Minna Hakkarainen, Professor and Head, Division of Polymer Technology, KTH Royal Institute of Technology, SE-100 44 Stockholm, Sweden	
Prof. Bungo Ochiai, Department of Applied Chemistry, Chemical Engineering, and Biochemical Engineering, Graduate School of Science and Engineering, Yamagata University, Yonezawa, Yamagata Japan	

International Alumni

	Name: Ms. Vinika Tyagi (Department of Chemistry, 17-2020) Current designation: Research and Development Laboratory, LifeScan, United Kingdom Industry experience: Sample handler NHS (Queen Elizabeth Teaching and Learning Center, Glasgow, United Kingdom) Achievements: Completed Master's in Pharmaceutical Analysis from University of Strathclyde, Glasgow, United Kingdom with Merit, Faculty of Science Masters Scholarship for excellent academic achievement.
	Ms. Chhavi Baliyan (Department of Mathematics, B.Sc. (Hons.) Mathematics, 2019-2021) Master in Actuarial Science, University College Dublin, Ireland
	Himani Saraswat (Department of Physics, 2021)



Surekha Chaudhary (Department of Physics, 2021)



Mr. Prashant Gupta (Department of ECE, 2011-2015)

Current Designation: Software Development Engineer, Amazon.com, Seattle, Washington

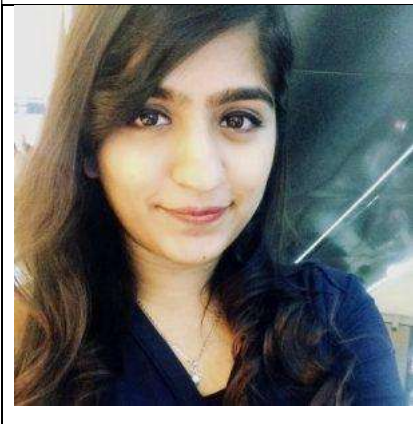
Industry Experience: 7 years

Achievements: Founder and CEO, MovAid, World's first complete and personalized tool to quantify rehabilitation progress of an individual post any type of orthopedic trauma, surgery or replacement



Sunny Verma (Department of ECE, 2014-2018)

Current Designation: Associate Security Consultant, Security Compass Advisory, Ontario, Canada

	Vinay Madaan(Department of ECE, 2012-2016) Higher Education:MS, Business Analytics at Naveen Jindal School of Management with Data Mining and Statistical Analysis, Dallas, USA
	Jivesh Taneja(Department of ECE, 2012-2016) Higher Education: Master of Science, UCD Michael Smurfit Graduate Business School Current Designation: Analytics Development Lead, ICON plc, Dublin, County Dublin, Ireland
	Ankita (Department of ECE, 2012-2016) Higher Education: MS, Computer Networking and Telecommunications, Northeastern University, Boston, Massachusetts Current Designation: Technical Support Engineer II, Samsara, San Francisco, California, United States
	Akansha (Department of ECE, 2012-2016) Higher Education: MS, Data Science and Analytics, Royal Holloway University, London Current Designation: Data Engineer, Digital Bucket Company, Wandsworth, England, United Kingdom

	Manvik Kathuria (Department of ECE, 2006-2010) Current Designation: Engineering Manager, Data Platform, Melbourne, Victoria,Australia Industry Experience: 11 years
	<u>Sakshi Sharma (Department of ECE, 2008-2012)</u> Higher Education: MBA, IE Business School, Madrid, Spain Current Designation: Partner Development Manager at Ardoq, Oslo, Norway Industry Experience: 12 years
	Ankita Behl (Department of ECE, 2006-2010) Higher Studies:MS, San Jose State University, California Current Designation:Manager, Client Data Services at MMIT (Managed Markets Insight & Technology), Bensalem, Pennsylvania, United Industry Experience: 9 years
	Vikas Aggarwal(Department of ECE, 2006-2010) Higher Studies: GNAM Exchange, IE Business School, Madrid, Spain Current Designation: Product Manager Data Evangelist Problem Solver, AUTO1 Group, Berlin, Germany Industry Experience: 10 years Achievements:Co Founder, Q Testers

S.No	Events	Event detail	Date	Organized by
1	Immersion Program	Global Immersion Trip to Dubai	29th September to 4th October 2023	Manav Rachna Educational Institute
		Orientation session on the upcoming Global Immersion Program – Malaysia	11th January 2024	The School of Law, in collaboration with the Office of International Affairs
2	Webinar	International Webinar on "Emulsion Polymerization of Styrene by the C1EG™ Ionic Liquid"	October 12, 2023	Prof. Rene Dario Peralta Rodriguez, Senior Researcher at Centre for Research in Applied Chemistry, Saltillo, Mexico and Department of Sciences, MRU
		International Webinar on "Toward Infinite Origami Materials"	October 31, 2023	Prof. Bungo Ochiai, Department of Chemistry and Chemical Engineering, Yamagata University, Japan and Department of Sciences, MRU

		International Webinar on the Topic entitled "Generative AI"	29th-Jan-24	The Department of Computer Science & Technology
	Guest Lectures	International Series - Guest Lecture	February 1, 2024	School of Law, Manav Rachna University
4	Session	International Session on "Empowering Research Tools with AI"	9-Feb-2024	The Department of Computer Science & Technology
5	Faculty Development / Achievement	Member of International Judging Panel		Dr Meena Kapahi
		Conference ICEMRB 2023 from	19 Dec to 22 Dec 2023	
		QS Reimagine Education Conference and Awards 2023 at Khalifa University, Abu Dhabi)	11 to 13 Dec 2023	Dr Meena Kapahi
		Appointment of Dr. Abhishek Saxena as Research Fellow	Two Years w.e.f Dec,23 to 2025	The Department of Computer Science & Technology, School of Engineering
		UNESCO OE4BW Platform Faculty Collaboration Meeting	(Jan 30, 2024)	Dr. Meena Kapahi
		Online Collaboration Meeting between	January 19, 2024	Manav Rachna University

		Manav Rachna University (Faridabad) and Queensland University (Haiti)		(Faridabad) and Queensland University (Haiti)
		UNESCO OE4BW Platform Faculty Collaboration Meeting	(Jan 29, 2024)	Hub Renewables Coordinator Dr. Suzana Verdel The meeting was attended by Prof. (Dr.) Meena Kapahi, Dr. Vinayak Vandan Pathak and Dr. Piyush Charan.
		Online Meeting with Ms. Sophie Kacki, Manager of Engagement Principles for Responsible Management Education (PRME)	17th Jan 2024	Online meeting was conducted with Ms Sophie Kacki The meeting was attended by : 1.Dr Pragati Chauhan-Professor- SMC MRU 2.Prof (Dr) Meena Kapahi- Dean - School of Sciences MRU 3.Prof (Dr) Parul Jhajharia- Dean SMC MRU

	Paper Presentation	Dr Akhilesh Examining the Evolution of Feminist Thought: A Journey from 19th Century to 21st Century		Paper Presentation in International conference on 6th Global Conference on Women Studies Conference Venue: Novotel Zürich City West Am Turbinenplatz, Schiffbaustrasse 13, 8005 Zürich, Switzerland
		Dr. Eram Aziz "Education: root of sustainable future" at International Interdisciplinary Conference on "Sustainable Development Goals: Policy, Practice, Concerns and Way Forward - 2024"	6th and 7th June, 2024.	School of Law, Bennett University (India) in collaboration with the University of Birmingham (UK) and the University of Camerino (Italy)
	MOOC DEVELOPED	Dr Rashee was selected as a Mentor for "Sustainable Living - Sustainable Future" six week massive open online course.		UNESCO International online Mentoring Programme
		Dr Savita was selected as Mentor for course		"Storytelling as a Design Process Under OE4BW initiative for youth Hub

		Dr Rashee selected as Mentor to Dr Jyoti Sehrawat in Hub-Education		Open Education for Better World OE4BW 2024 initiative of UNESCO
		Dr Ritu Sharma was selected as a mentor		UNESCO International online Mentoring Programme OE4BW on "Be a masters of your emotions"
		Dr Savita was selected as mentor		Course on "Nutritional Essentials- A Blueprint for Healthy Living under OE4BW for Hub "Health and Wellbeing" initiative of UNESCO
		Ms Meenal Rawat, Dr Eram Aziz and Dr. Savita Sharma - were selected as project developer and co-developers respectively		Online course on Skill Development for Sustainable Future

International Events - Immersion Program

Global Immersion Trip to Dubai

Manav Rachna Educational Institute has been associated with UAS International to organize Global Immersion Programs for students. This year UAS International organized yet another GIP to Dubai in September 2023. 8 students from Manav Rachna University and 4 from MRIIRS went to this Global Immersion Program in Dubai from 29th September to 4th October. Ms. Srishti Bathla from the School of Management & Commerce, MRU was offered a sponsored seat by UAS International to accompany the students on this GIP.

This was in continuation with two GIPs - one happened in February 2023 to Singapore and another in 2022 to Dubai.

Benefits:

1. Students got an opportunity to visit 3 industries namely- FLY DUBAI, DNATA, and DAMAC where they talked to their HR, Legal, and Operation consultants and got deep insights into the workings of the company.
2. Students also visited the iconic landmarks of Dubai - Burj Khalifa, Palm Jumeirah, Ferrari World, Mosque, Desert Safari etc.

Orientation Session on Global Immersion Program – Malaysia

The School of Law, in collaboration with the Office of International Affairs organized an orientation session on the upcoming Global Immersion Program – Malaysia on 11th January 2024. Members of UAS International interacted with the students in three groups of 40-50 each. They appraised the students about the duration and inclusions of the Program, and the overall cost. The students were informed about the academic and industrial value of their participation, and the additional experience they will gain as a tourist. Students had queries regarding visa, accommodation, and passport renewal – all of which were satisfactorily addressed by UAS.

International Events - Webinar

International Webinar on "Emulsion Polymerization of Styrene by the C1EG™ Ionic Liquid"

The Department of Sciences, Program - Chemistry, Manav Rachna University organized an International Webinar on Emulsion Polymerization of Styrene by the C1EG™ Ionic Liquid on October 12, 2023, by Prof. Rene Dario Peralta Rodriguez, Senior Researcher at Centre for Research in Applied Chemistry, Saltillo, Mexico. He completed his UG in Chemical Engineering at the University of Coahuila, MSc in Chemical Engineering at the University of Illinois, Urbana- Champaign, and pursued his PhD in Agricultural Engineering at the University of California, Davis. He has published enormous publications in highly reputed journals in the field of polymer chemistry more than 1,000 citations, h-index 21 and i10- index 37 (Google Scholar) also he is on the Editorial Advisory Board of several journals.

Ms. Aanchal, student of III M.Sc. Chemistry started the session, gave highlights of the webinar, and welcomed the guests and audience.

The talk enriched the students, research scholars, and faculty with the process of emulsion polymerization of Styrene using commercially available surfactant. More than 65 participants from different Universities attended the session with interest in the interactive session. At the end of the session, a memento as a token of appreciation was given to Prof. Rene, followed by a vote of thanks by Dr. A. Jayamani, and taking a group photo. A total of 67 participants attended the session.

International Webinar on “Toward Infinite Origami Materials”

The Department of Sciences, Program - Chemistry, organized an International Webinar on Toward Infinite Origami Materials on October 31, 2023, by Prof. Bungo Ochiai, Department of Chemistry and Chemical Engineering, Yamagata University, Japan. He has over 25 years of experience in the field of polymer synthesis. Currently working as Vice-Dean (Education), Faculty of Engineering, Yamagata University. He is an active member of the Chemical Society of Japan, Society of Polymer Science Japan, and American Chemical Society etc. Professor Bungo OCHIAI has authored more than 125 research papers.

Prof. Bungo Ochiai gave information about his polymeric material that has properties like Dynamic mechanical nature and shape memory for origami. Prof. Bungo explained the design of such materials and the ways of polymerization,

single-step copolymerization, and polymerization of 19-membered ring polymers using polyethylene glycol. He also gave information on characterizing the materials using different techniques especially NMR, evaluation of inclusion behavior, comparison of the effects of thermal & photocuring, and experiments with results related to the evaluation of properties of the polymeric material as an option for infinite origami material. At the end of his presentation, Prof. Bungo Ochiai answered more clearly the questions asked by the participants in the chat box. At the end of the session, a memento was given to Prof. Bungo Ochiai as a token of appreciation after the thanks note by Dr. A. Jayamani. The talk enriched the UG, PG students, research scholars, and faculty members with interesting polymeric material that could be more innovative as origami material. A total of 54 participants from different institutions participated in the webinar with more interaction with the speaker.

International Webinar on the Topic entitled “Generative AI”

The Department of Computer Science & Technology organized an International Webinar on the Topic entitled “Generative AI” on 29th-Jan-24 in LT03 at 12:00 PM. The Session began by giving the brief introduction of Webinar and welcoming the Guest Mr. Saurabh Sharma by Dr. Abhishek Saxena Coordinator, International Event of Dept. Mr. Saurabh Sharma, is a Technical Architect, Ecommerce, AWS and Cloud SME working in IBM, London, UK with extensive experience in Microservices Architecture & Java 17. He is a passionate advocate of Agile technologies and cutting-edge development practices, such as Test-driven Development, Hypothesis-driven Development, and trunk-based Development. Currently, he is exploring GenAI Foundation Models using watson, AWS-bedrock, and Open AI to build smart logger and code assistant solutions. The Webinar emphasizes the deep insights into the GenAI, and describes the working model of it. It delivers that how the AI has revolutionized the world by this approach and is rapidly evolving with recent technological changes. It defines the models that are working behind in this approach and how these models have given the various applications. The Sessions was very interactive and the students were very much keen to know the latest updates in the field of GenAI and have thoroughly

grasped the knowledge and working of LLM models.

International Event - Guest Lecture

The School of Law, Manav Rachna University organized a guest lecture on February 1, 2024 on the landscapes of the legal industry across UK and Europe. The speaker for the session, Advocate Abhijit Narayan, briefed the law students on three major fronts - How should a student pursue a Master of Laws (LLM) in the United States, and what key elements comprise this undertaking, covering prerequisites, thorough program research, and the complexities of the application process. 1. In navigating the competitive landscape of the legal industry, what multifaceted strategies, educational achievements, and hands-on professional experiences should a lawyer strategically prioritize and cultivate to not only meet but exceed the rigorous standards set by top-tier law firms. Moreover, how can the individual tailor their skill set, network effectively, and demonstrate a profound commitment to excellence in order to stand out as an exceptional candidate during the application and selection process for such sought-after positions. 2. The comprehensive strategies, professional milestones, and cultural considerations should be considered to effectively establish oneself as a distinguished lawyer in the diverse legal landscapes across European countries. Moreover, how can an aspiring legal professional navigate the complexities of legal systems, build a robust network, and showcase a commitment to legal excellence not only to meet but exceed the expectations of legal practice within the varied jurisdictions of Europe

International Events - Session

International Session on “Empowering Research Tools with AI”

The Department of Computer Science & Technology organized the International Session on “Empowering Research Tools with AI” for its faculty members and students by the Distinguished Speaker Dr. Deshinta A Dewi, Associate Professor, Faculty of Data Science and Information Technology, Inti International University, Malaysia on 9th-Feb-24, in CADR Hall, H Block Basement at 10:30 AM to 12:30 PM. The Speaker Dr Deshinta A Dewi was received by Dr. Abhishek Saxena,

Coordinator International Affairs and was welcomed by Prof (Dr.) Manpreet Kaur, Head of Department & Prof. (Dr.) Sachin Lakra, Associate Dean, by presenting a Bouquet. The Dean Engineering also welcomed the Guest by presenting the Memento.

The Session defines that research is a scientific and systematic investigation used to search new facts in any branch of knowledge. The individuals, who are conducting research, need to possess efficient knowledge and information regarding the various aspects involved which include the collection of data, organizing the data, analyzing it and obtaining the research findings. It defines that the various forms of research should be suitable and acceptable to the policy makers, planners and implementers of policy. The session also highlighted that there are various types of research which include fundamental, applied, action, qualitative and quantitative. Qualitative research is more interactive and it is needed to define the good quality of work. The Session also embarks the journey in close association with the University and reflects that in future more good quality of research work can be done with mutual cooperation and support. The Session was attended by the faculty members and staff of the Department and concluded with Vote of Thanks to the Speaker.

International Events - Faculty Development/ Achievement

Member of International Judging Panel

Dr. Meena Kapahi's selection as a member of the esteemed International Judging Panel for the 2023 QS Reimagine Education Awards. These awards recognize initiatives transforming the education landscape, and being part of this panel signifies Dr. Kapahi's dedication to pushing the boundaries of learning. The QS Reimagine Education Awards are a prestigious platform that honors and acknowledges trailblazers in education worldwide, fostering a dynamic community of #innovators committed to reshaping learning and enhancing future, employability prospects. Dr. Meena Kapahi's role in evaluating projects for these awards, which will contend for regional, category, and overall distinctions in the 10th Edition of the QS Reimagine Education Awards and Conference, showcases her expertise and contribution to this transformative field.

Conference ICEMRB 2023 from 19 Dec to 22 Dec 2023

In the International Conference on Energy Materials and Rechargeable Batteries from 19 Dec to 22 Dec, 2023 ICEMRB2023, speakers from reputed organisation such as IITs, NITs and CSIR labs delivered plenary, keynote and invited talks. Conference also get attention of internationally recognised expert in the field of energy materials and batteries. Prof. MV Reddy, Canada and Prof. Villas Pol, USA delivered plenary speech on rechargeable batteries. Prof. Sessa Srinivasan, form USA, Prof. Mmantsae Diale from South Afrtica; Dr. Shailesh Upreti from USA delivered talks. Dr. Asanov Igor from Russia speak on the use of synchrotron techniques in energy materials. Emerging researchers in the field of energy materials, batteries and associated experimental techniques from USA, Korea, Japan, Israel and Nepal participated in the conference. Participants from Nepal, China, Korea, and UAE also presented their work in the conference. Overall conference has almost 200 presentations (including plenary, keynote, invited, oral and poster) and participants from more than 10 countries.

QS Reimagine Education Conference and Awards 2023 from 11 to 13 Dec 2023 at Khalifa University, Abu Dhabi)

The project titled "The Journey From Wastes to Resources - An Awareness Campaign" submitted by Dr. Meena Kapahi has been shortlisted for the QS Reimagine Education Awards under the Sustainability Education Award category for the innovative approach for encouraging and teaching the principles and best practices of sustainable development. The project is funded by the Hazardous Substances Management Division, MoEFCC, Gol, under the Central Sector Scheme. The project stands in the top 30%, securing a spot on the 2023 Reimagine Education Awards shortlist receiving 1200+ submissions all over the world. Dr. Kapahi attended the QS Reimagine Education Conference and Awards (11 to 13 Dec 2023) at Khalifa University, Abu Dhabi and presented her work in the sustainability education category during the conference, showcasing the project's significance on the global stage.

Appointment of Dr. Abhishek Saxena as Research Fellow

The Department of Computer Science & Technology, School of Engineering is delighted to share that one of its distinguished Faculty Member Dr. Abhishek Saxena working as Associate Professor has been appointed as "Research Fellow" in International University, Nilai, Malaysia for Two Years w.e.f from Dec, 23 to 2025 for his contribution in the field of Artificial Intelligence, Machine Learning and Deep Learning. He will be responsible for promoting Research activities in the University with good Publications in Reputed International Journals getting grants on funded research projects, guiding research scholars, attending conferences, workshops, symposiums delivering expert lectures etc.

UNESCO OE4BW Platform Faculty Collaboration Meeting (Jan 30, 2024)

The online meeting was organised by Dr. Meena Kapahi on January 30, 2024, at 7:30 PM IST through the ZOOM platform with an objective to facilitate introductions with the Course Mentor Dr. Teresita Gravina and establish a coordinated schedule for course development activities. The meeting was attended by Prof. (Dr.) Meena Kapahi, Dr. Vinayak Vandan Pathak and Dr. Teresita Gravina. The collaborative effort led by Dr. Meena and Dr. Vinayak revolves around the creation of a MOOC titled "Integrating Sustainability into Education for Eco-conscious Leaders Tomorrow," under the guidance of Dr. Teresita. Dr. Meena commenced the meeting by providing a concise overview of the course modules, objectives, target audience, and proposed timelines. Dr. Teresita contributed insights by suggesting platforms that could serve as valuable references during the course material development. The meeting concluded with the finalisation of the next date for the meeting with well-defined set targets. The meeting successfully laid the foundation for a collaborative and well-coordinated effort among faculty members in developing MOOCs for the UNESCO OE4BW platform.

Online Collaboration Meeting between Manav Rachna University (Faridabad) and Queensland University (Haiti)

The collaboration meeting was conducted between Manav Rachna University (Faridabad) and Queensland University (Haiti) on January 19, 2024 through WhatsApp call at 7:30 pm IST. The primary objective was to explore collaboration opportunities between the two institutions. The meeting, graced by Prof. (Dr.) Jean-

Claude Dorsainvil, Hon'ble President of Queensland University, Haiti; Prof. (Dr.) Sangita Banga (PVC MRU); Prof. (Dr.) Shruti Vashist (Dean Academics); Prof. (Dr.) Goldie Gabrani (ED and Dean R&D); Prof. (Dr.) Geeta Thakur (Dean Students) and Prof. (Dr.) Meena Kapahi (Dean School of Sciences & Director Office of International Affairs), aimed to explore collaboration opportunities between UQ and Manav Rachna University (MRU). Prof. Meena Kapahi initiated the meeting with a brief introduction of all attendees and an overview of the existing collaboration between UQ and MRU. Prof. Shruti Vashist introduced various academic programs being offered at MRU. Prof. Jean-Claude gave a brief introduction of the academic programmes being offered at UQ. Discussion on Collaboration Initiatives: Members explored various avenues for collaboration, focusing on potential projects and Discussion on Collaboration Initiatives: Members explored various avenues for collaboration, focusing on potential projects and initiatives. Prof. Meena proposed the idea of launching online programs, events, and courses. However, Prof. Jean highlighted existing network issues that might hinder such initiatives. Prof. Sangita Banga emphasized the importance of practical and impactful collaborations in terms of research and projects. Prof. Jean suggested exploring projects related to marine water and fisheries. Members engaged in discussions regarding the feasibility and potential impact of such projects. The meeting laid the groundwork for potential collaborations between UQ and MRU, with a focus on practical and impactful research initiatives. Despite challenges in launching online programs, the commitment to finding feasible solutions and advancing collaborative efforts was evident among all participants. Both the universities to share the presentations of the brief introduction of programs and research initiatives to take it forward.

UNESCO OE4BW Platform Faculty Collaboration Meeting (Jan 29, 2024)

An online meeting was organised by the Hub Renewables Coordinator Dr. Suzana Verdel on January 29, 2024, at 6:30 PM IST through MS Teams. The meeting served as a pivotal event for faculty members from Manav Rachna University who are actively engaged in designing and developing Massive Open Online Courses (MOOCs) for the UNESCO OE4BW platform. The primary aim of the meeting was to facilitate introductions, foster collaboration among developers and mentors, and establish a coordinated schedule for course development activities. The meeting was attended by Prof. (Dr.) Meena Kapahi, Dr. Vinayak Vandan Pathak and Dr. Piyush Charan. Dr. Suzana Verdel initiated the meeting with a brief overview of the

UNESCO OE4BW platform and its significance in promoting open education for sustainable development. She then discussed the type of courses being developed as a part of the Hub Renewables. Faculty developers introduced themselves, sharing their expertise, experiences, and roles in the course development process. The meeting successfully laid the foundation for a collaborative and well-coordinated effort among faculty members in developing MOOCs for the UNESCO OE4BW platform. The courses being developed: Water Quality Monitoring and Management.

The courses being developed: Water Quality Monitoring and Management (Developer - Dr. Vinayak Vandan Pathak & Co-Developer - Prof. (Dr.) Meena Kapahi; Mentor - Dr. Teresita Gravina)

Online Meeting with Ms. Sophie Kacki, Manager of Engagement Principles for Responsible Management Education (PRME)

An Online meeting was conducted with Ms Sophie Kacki, Manager of Engagement Principles for Responsible Management Education (PRME) United Nations Global Compact to understand the process and benefits of this association on 17th Jan through Google meet. The meeting was attended by : 1.Dr Pragati Chauhan- Professor- SMC MRU 2.Prof (Dr) Meena Kapahi- Dean -School of Sciences MRU 3.Prof (Dr) Parul Jhajharia- Dean SMC MRU The meeting discussed on the following points: 1.Introduction to PRME through a PowerPoint presentation shared by Ms Sophie Kacki. Benefits of the association- offered through the Chapters, Working Groups, and PRME Global Students Chapter etc 2. Process of membership- an application process with a letter of commitment from the university. 3. 4.A brief on the Seven Principles of Responsible Management Education. 5.To inculcate sustainability in curriculum through the i5 Framework 6.Financial contribution in terms of Annual fees. 7.SIP Reporting after one year of membership. First year would be handholding through training / workshops participation to understand the implementation of the sustainability initiatives.

MOOC's Developed

- Dr Rashee was selected as a Mentor for UNESCO International online Mentoring Programme on "Sustainable Living - Sustainable Future" six week massive open online course.

- Ms Meenal Rawat, Dr Eram Aziz and Dr. Savita Sharma - were selected as project developer and co-developers respectively for online course on Skill Development for Sustainable Future
- Dr Ritu Sharma was selected as a mentor for UNESCO International online Mentoring Programme OE4BW on "Be a masters of your emotions"
- Dr Savita was selected as mentor for the course on "Nutritional Essentials- A Blueprint for Healthy Living under OE4BW for Hub "Health and Wellbeing" initiative of UNESCO
- Dr Rashee selected as Mentor to Dr Jyoti Sehrawat in Hub- Education - Open Education for Better World OE4BW 2024 initiative of UNESCO
- Dr Savita was selected as Mentor for course on "Storytelling as a Design Process Under OE4BW initiative for youth Hub

Dr Akhilesh Paper Presentation in International conference on Examining the Evolution of Feminist Thought: A Journey from 19th Century to 21st Century & 6th Global Conference on Women Studies Conference Venue: Novotel Zürich City West Am Turbinenplatz, Schiffbaustrasse 13, 8005 Zürich, Switzerland.

Dr. Eram Aziz - presented a paper titled "Education: root of sustainable future" at International Interdisciplinary Conference on "Sustainable Development Goals: Policy, Practice, Concerns and Way Forward - 2024" organized by School of Law, Bennett University (India) in collaboration with the University of Birmingham (UK) and the University of Camerino (Italy) held on 6th and 7th June, 2024.

CHAPTER: 9

INTERNAL QUALITY ASSURANCE CELL

Internal Quality Assurance Cell (IQAC)

Inter Quality Assurance Cell is involved in systematic implementation of quality enhancement procedures/criteria to attain improved levels of international compatibility and competitiveness at institutional and program level. The enhancement of these qualities involves continuous monitoring, evaluation, revision and implementation of various academic and administrative procedures. This is broadly implemented at three different levels.

Three levels of quality enhancement

The University focuses on the monitoring and improvement of quality at three levels i.e. institutional, national and international.

1. The University has a clearly defined mission and vision. At Institutional level quality enhancement is taken care through academics, curricular and extracurricular activities, feedbacks, administration, welfare facilities' etc focusing towards our vision.
2. At National level, it is done through assessment and accreditations from National bodies like UGC, AICTE, NAAC, NIRF, NBA, BCI, NCTE etc. A market driven approach is also used by Times i3c Engineering Institutes ranking surveys etc.
3. At International level, quality enhancement is achieved by organizing summer internships at various foreign universities. The university also encourages faculty and student exchange programs. There are a number of international collaborations with organizations of repute to facilitate global exposure and competency. The university also aims at achieving high ratings at International level like QS I Gauge ranking etc.

Quality Assurance Channels

The factors of quality measure are assessed through different channels. The monitoring of various quality parameters and review is an essential part to ensure quality among them. A continuous review and analysis of these measures is done through various channels. A system is established to gather these views for the overall enhancement. The channels of quality assurance involve Students feedbacks, faculty views on course reviews, external examiners, parents teachers meetings, industry feedbacks, employers feedbacks, alumni's feedback etc.

Goals of Quality Assurance Cell

The IQAC, MRU ensures the quality enhancement at the university and has defined its goals as;

1. Planning the Quality Assurance activities
2. Arriving at an Institutional quality Model
3. Continuous Improvement
4. Willingness to adopt changes
5. Inculcate team building and team work
6. Achieving Excellence through strategic planning
7. Meet global challenges
8. Submission of AQAR.
9. Encourage interdepartmental interaction

The IQAC at **Manav Rachna University** is committed to maintaining high educational standards, with a primary goal of striving for excellence in all areas by:

- Developing and implementing a comprehensive quality assurance system that ensures consistency and continuous improvement.
- Strengthening and advancing the university's quality processes to achieve sustainable growth.
- Regularly assessing performance, identifying gaps, and providing constructive feedback for improvement.
- Promoting holistic excellence in both academic and administrative domains.
- Organizing professional development programs for faculty and staff, centered on quality enhancement and best practices.

A. Major Quality Initiatives Undertaken by IQAC

A1. Accreditations

(i) NAAC Accreditation:

- MRU successfully completed its first cycle of NAAC Accreditation in June 2024, for the assessment of all the Qualitative Metrics of Self Study Report as submitted by MRU during the month of April 2023. The NAAC Peer Team visit held on 13th June to 15th June, 2024. Manav Rachna University has been awarded an "A" grade by the National Assessment and Accreditation



Council (NAAC) with a CGPA of 3.03. The accreditation is valid for the period June 2024 to June 2029.

(ii) NBA Accreditation:

- MRU has successfully attained NBA accreditation for its B.Tech Computer Science & Engineering program, securing this prestigious status for a three-year period from the academic year 2023-24 to 2025-26. The Tier-I accreditation highlights the program's high educational standards and commitment to continuous improvement, ensuring that graduates are equipped to meet the evolving demands of the industry.

A2. Rankings:

- Manav Rachna University has been ranked in the Platinum band in the Outcome-Based Education Ranking 2024.
- MRU Ranked 5th in Delhi NCR amongst the Private & Deemed Multidisciplinary Universities category under THE WEEK Ranking 2024.
- MRU has been awarded with DIAMOND Band amongst the Sustainable Institutions of India, Green Rankings 2024.
- School of Law, MRU, ranked amongst the Top 30 Law Colleges in North Zone, India under BW Law School Rankings 2024.
- The School of Management at MRU has achieved an impressive milestone by being ranked 5th in Haryana in the prestigious list of India's Best B-Schools for 2024, specifically within the Top Private B-Schools category.
- The School of Management at MRU has proudly achieved the top ranking in Haryana in the Best College Outlook 2024.

A3. ISO Certification and Environment & Green Audit:

ISO SURVEILLANCE

In December 2023, MRU successfully completed an ISO surveillance audit for three key standards: ISO 9001:2015, ISO 14001:2015, and ISO 50001:2018. This thorough assessment not only confirmed the compliance with quality management, environmental management, and energy management systems but also highlighted the commitment to continuous improvement. The positive outcome of this audit reflects the dedication to maintaining high standards across all operational aspects, ensuring that the institution consistently meets both client expectations and regulatory requirements.

ENVIRONMENT, ENERGY & GREEN AUDITS

The second cycle of Energy Environment & Green Audits was conducted successfully by EHS Alliance Pvt. Ltd. on 16th January 2024. The observations & recommendations have been recorded for further action & review. The main emphasis was on securing certifications/awards for MRU for various initiatives including Zero Waste, Green Campus, and Cleanliness certifications, along with the prestigious Golden Peacock Award. Recommendations were made to conserve water, such as utilizing water meter data in dining facilities, adopting water-saving practices, employing dishwashers with less froth detergent, and implementing a food waste policy to minimize food waste. Additionally, suggestions were given to utilize biogas composters for food waste management.

A4. Conduct of Academic and Administrative Audit (AAA)

1. Conduct of Academic and Administrative Audit for AY 2023-24:

During August - September 2023, a comprehensive Academic Audit was conducted for each department, involving external auditors from esteemed academic institutions. Their insights and recommendations were carefully reviewed and subsequently implemented by the respective departments to enhance our educational quality. Additionally, an Administrative Audit of central units was performed, ensuring that both teaching and administrative practices are aligned with best practices and institutional goals for the academic year 2022-23. This rigorous evaluation process reflects our commitment to continuous improvement and excellence in education.

B. Activities conducted by IQAC during the Academic Year 2023-24:

FACULTY ORIENTATION PROGRAM

Internal Quality Assurance Cell (IQAC), MRU, launched the Faculty Orientation Programme for the faculty members who joined the university in August 2022 onwards on 5th August 2022. The comprehensive orientation



programme spanned over five weeks from 5th August to 21st September 2023, aimed to equip the participants with the necessary knowledge and tools to excel in their roles.

Day 1 began with a Faculty Diagnostic Assessment by Prof. (Dr.) Geeta Thakur, analyzing faculty knowledge and identifying necessary skills. Subsequent sessions covered institutional policies by Prof. (Dr.) Sangita Banga and faculty roles in student development by Hon'ble Vice Chancellor Prof. (Dr.) I.K. Bhat. The day concluded with an emphasis on student-centric learning, 21st-century skills in Teaching practices, and Bloom's Taxonomy.

On August 10th, 2023, during the second day of the program, Honorable Vice Chancellor Sir, Prof. (Dr.) I.K. Bhat spearheaded a session focusing on active learning strategies. The session underscored the pivotal role of teachers in ensuring high-quality facilitation, emphasized the importance of aligning activities with learning objectives, and highlighted the significant impact of the overall learning environment on students' development.



On August 17th, 2023, during Day three of the program, Professor (Dr.) I.K. Bhat, the Honorable Vice Chancellor, conducted an enlightening session on Outcome-Based Education (OBE) and the process of crafting examination question papers. In this insightful session, participants gained a comprehensive understanding of OBE principles and how they can be effectively incorporated into the educational framework.



On August 19th, 2023, Day four delved into the concepts of CO (Course Outcomes), PO (Program Outcomes), and PSO (Program Specific Outcomes), along with their mapping and attainment. Professor (Dr.) Sangita Banga, the Pro-Vice Chancellor at MRU, elucidated how Outcome-Based Education (OBE) fosters



accountability, ensures quality, and facilitates continuous improvement within the educational framework.

The session on the fifth day, on August 24th, 2023, concentrated on the generation of electronic content. Dr. Savita Sharma, Associate Professor at the School of Education & Humanities, emphasized the crucial role of creating E-content as a key avenue for the continuous professional development of faculty members. This significance was underscored, particularly in light of recent initiatives by the UGC in this field.



On the 6th day (August 31st, 2023) of the FDP Prof. (Dr.) Sangita Banga, Pro-Vice Chancellor, led an insightful session on "Accreditations and Rankings – NIRF/NAAC/NBA/QS". Dr. Banga explained the crucial role that accreditations and rankings play in assessing the quality and standing of educational institutions.

On the 7th day (September 2nd, 2023) of the FDP, **Prof. (Dr.) Pradeep Kumar Varshney** led an informative session on "Research & Its Importance - Innovation, Entrepreneurship, and Startup & Institutional Support."

The eighth day on 21st September 2023 by **Prof. Geeta Thakur** dealt with the Evaluation, Engagement, and Entertainment model of Digital Learning. The importance of maintaining a balance between Evaluation, Engagement, and Entertainment for effective digital learning was stressed. Successful case studies, offering valuable insights and strategies for implementation in the digital learning were illustrated.

ONLINE SEMINAR ON QUALITY EDUCATION AND ROLE OF ACCREDITATIONS

On August 31st, 2023, an insightful online seminar titled 'Quality Education and Role of Accreditations' took place on Zoom. Dr. Nameesh Miglani, General Secretary of the Sunrise Technical Education Promotional Society, led the session. The seminar commenced by exploring fundamental aspects of quality education and distinguishing factors between quality and standard educational institutions. Emphasis was placed on stakeholders' pivotal role in achieving quality education goals.

Furthermore, the seminar delved into the landscape of accreditations in India, elucidating the objectives, functions, and significance of accrediting bodies. A detailed comparison between the accreditation frameworks of NAAC and NBA was presented, underscoring the collective efforts of accrediting bodies in ensuring quality education.

A Training Workshop for Academic Audit: Guidelines & Outcomes Targeted organized by Internal Quality Assurance Cell (IQAC)

On August 10th, 2023, a training workshop on Academic Audit was conducted for departmental auditors. Led by Dr. Meena Kapahi and Dr. Deepa Arora from IQAC, the workshop aimed to equip faculty with the necessary skills for effective academic audits. Dr. Kapahi provided an overview of academic audit's purpose and significance, focusing on regulations and accreditation standards. The session emphasized audit planning, techniques, and methodologies.



Following this, Dr. Arora detailed the audit format, essential documents, and steps to maintain academic quality. Participants gained practical insights into audit planning, data analysis, and reporting, fostering collaboration among



them. The workshop enhanced their understanding of academic audits, enabling smoother future audit processes.

WORKSHOP ON BASICS OF RESEARCH AND PAPER WRITING ORGANIZED BY INTERNAL QUALITY ASSURANCE CELL (IQAC)

The School of Education and Humanities, in partnership with IQAC, hosted a workshop on October 7th, 2023, focusing on 'Research Basics and Paper Writing' for Ph.D. scholars across MRU departments. Prof. (Dr.) D.N. Sansanwal led the session, utilizing practical examples to engage participants. The interactive session included a Q&A segment, aiding scholars in clarifying doubts and gaining a deeper understanding of research fundamentals.



WORKSHOP ON ASSESSMENT OF LEARNING DISABILITY ORGANISED BY INTERNAL QUALITY ASSURANCE CELL (IQAC)

On October 7th, 2023, a workshop titled 'Assessment of Learning Disability' by experts from 'SensAble ChiLd' provided a comprehensive understanding of administering and interpreting screening checklists and tests for identifying Learning Disabilities in children. Led by Dr. Shipra Gupta, the session covered checklists like SLD-SQ and BCSLD, along with tests such as GLAD, DTLD, NIMHANS Index for SLD (revised), and Schonell Graded Spelling Test. Dr. Gupta and her



team engaged participants with interactive activities, offering hands-on experience in applying, scoring, and interpreting each test. Attendees had the opportunity to address queries, gaining clarity on assessment interpretations.

SESSION ON FUNDAMENTALS OF DESIGNING COURSE OUTCOMES

Prof. I.K. Bhat, MRU's Vice Chancellor, spoke on 'Designing Course Outcomes' at an IQAC-organized session on October 12th, 2023. Emphasizing the role of accreditations in identifying institutional strengths and areas for growth, the session highlighted the importance of evaluating Course and Program Outcomes (COs and POs) for accreditation. Efficient assessment strategies combining direct and indirect tools were recommended for fair evaluation of student knowledge. The importance of aligning and defining COs and POs, continuous data collection, and action for improvement were underscored. Continuous review and revision were suggested to elevate institutional standards, emphasizing that effective assessment benefits both accreditation and program quality.



FDP - PEDAGOGICAL INTERVENTIONS IN LIGHT OF NEP 2020

An extensive Faculty Development Program (FDP) focused on 'Pedagogical Interventions in line with National Education Policy 2020' was held from October 9th to 14th, 2023. The program aimed to impart insights into NEP 2020's pedagogical practices, offering practical teaching strategies and tools. Across twelve technical sessions led by experts, diverse themes were covered, engaging participants in various aspects of modern teaching methodologies.

ONE WEEK ONLINE NATIONAL LEVEL
FACULTY DEVELOPMENT PROGRAM

PEDAGOGICAL INTERVENTIONS IN LIGHT OF
NATIONAL EDUCATION POLICY 2020

9th - 14th October 2023
1:00 pm - 4:00 pm

MANAV RACHNA UNIVERSITY

CENTRE FOR ADVANCED LEARNING OF
SCHOOL OF EDUCATION AND HUMANITIES

IN COLLABORATION WITH
INTERNAL QUALITY ASSURANCE CELL
MANAV RACHNA UNIVERSITY

ORGANIZES
FDP ON
PEDAGOGICAL INTERVENTIONS IN LIGHT OF
NATIONAL EDUCATION POLICY 2020

PATRON
PROF. DR. J. K. BHAT
HON'BLE VICE CHANCELLOR
MANAV RACHNA UNIVERSITY

CO-PATRON
PROF. DR. J. SANGITA BANGA
PRO VICE CHANCELLOR
MANAV RACHNA UNIVERSITY

CONVENOR
DR. DASHMEER SINGH
PROFESSOR & HEAD
DEPT. OF EDUCATION AND
HUMANITIES
MANAV RACHNA UNIVERSITY

ORGANIZING SECRETARY
DR. SAVITA SHARMA
ASSOCIATE PROFESSOR
DEPT. OF EDUCATION AND HUMANITIES
MANAV RACHNA UNIVERSITY

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Register For Free

Sessions covered Universal Design for Learning (UDL), competency-based assessment, technology integration, collaborative learning, constructivist approaches, experiential learning, interdisciplinary learning, culturally responsive pedagogy, critical and reflective pedagogy, and integrating research in teaching. Each session delved into practical applications and hands-on experiences, encouraging interactive discussions and providing participants with valuable insights to enhance their teaching practices in alignment with NEP 2020.



Training on Maintaining Quality processes in Hygiene and Sanitation

A training session held on October 26th, 2023, focused on 'Enhancing Hygiene and Sanitation Standards' was led by Prof. M.K. Kaul. The session initiated with an interactive discussion among housekeeping staff and peons about their daily cleaning practices on the university premises. Participants actively shared experiences and demonstrated their methods. Prof. Kaul provided valuable guidance, highlighting ways to improve cleaning processes, emphasizing hygiene standards, and demonstrating effective mopping techniques. Discussions also covered preparing suitable cleaning solutions, safety precautions, and the importance of personal hygiene. The session emphasized the risks associated with bacterial growth in waste. Prof. Kaul utilized visuals like pictures and videos to enhance understanding. Overall, the session significantly enhanced staff knowledge and skills, fostering a commitment to superior cleanliness and sanitation at the university.



Sustaining Our Future: Quality, Ethics, and Solid Waste Solutions

The IQAC at MRU arranged an awareness session titled "Sustaining our



Future: Quality, Ethics, and Solid Waste Solutions," led by Dr. Vinayak. His engaging talk heavily emphasized quality, ethics, and efficient waste handling. Dr. Vinayak highlighted the significance of waste segregation, the use of color-coded bins, and the pressing need to ban single-use plastics. He encouraged participants to adopt sustainable alternatives. This event served as a catalyst, inspiring individuals to take ownership and actively engage in responsible waste management practices to contribute to a sustainable future. The session took place on October 26th, 2023.

3RD NATIONAL LEVEL WORKSHOP - TRANSFORMATION THROUGH NAAC ACCREDITATION PROCESS

IQAC Members attended the 3rd National Level Workshop - Transformation through NAAC Accreditation Process organized by Institute for Academic Excellence (IAE) on 30th & 31st October 2023.

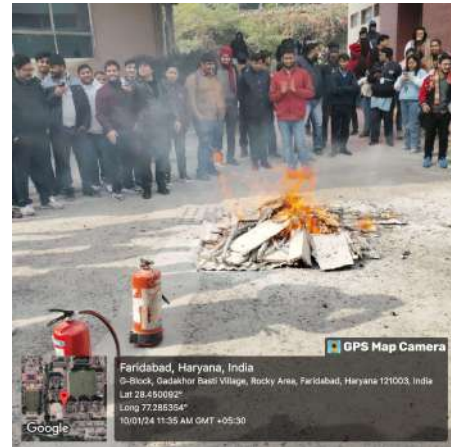
5TH NATIONAL LEVEL WORKSHOP - NIRF INDIA RANKINGS 2024

5th National Level Workshop - NIRF India Rankings 2024 organized by Institute for Academic Excellence (IAE) on 13th & 14th December 2023.



CAMPUS SAFETY IN ACTION: MANAV RACHNA UNIVERSITY EMERGENCY EVACUATION DRILL

On 10th January 2024, Internal Quality Assurance Cell (IQAC), MRU conducted a comprehensive "Campus Safety in Action: Manav Rachna University Emergency Evacuation Drill" as part of its commitment to ensuring the safety and well-being of its students, faculty, and staff. The primary objective of the drill was to test and evaluate the effectiveness of the university's emergency response procedures, enhance the preparedness of the campus community, and identify areas for improvement in case of a real emergency. Participants were briefed about various types of fire extinguishers. Live demonstrations of how to operate hose pipes and fire extinguishers were done.



CO-PO ATTAINMENT CALCULATIONS

A Training Session on "CO-PO Attainment Calculations" was organized on 1st February 2024 from 2:30-3:30PM, by the Office of the Dean, Academics(MRU), the School of Engineering, MRU and the School of Law, MRU, in association with the Internal Quality Assurance Cell (IQAC), MRU, to train the faculty members of all the Departments of MRU. The speaker for the session was Dr. Sachin Lakra, Associate Dean (Academics), MRU. The interactive session began with a brief description of the terminology related to CO-PO attainment. This was followed by a few key pointers to be kept in mind while formulating CO statements and the demarcation between course objectives and course outcomes. The session clarified the doubts of many faculty members regarding the calculations which was evident from the fact that there were a number of questions being asked during the session by faculty members.



ISO 9001 DOCUMENTATION: DEVELOPING EFFECTIVE QUALITY MANAGEMENT SYSTEM

Internal Quality Assurance Cell (IQAC), MRU conducted a seminar on "ISO 9001 Documentation: Developing Effective Quality Management System" on 15th February 2024. The resource person for the seminar is Ms. Vandna Zutshi Bhatt, Assistant Professor, School of Management & Commerce. Ms. Vandna Zutshi Bhatt is a Certified member of CII (Confederation of Indian Industry). Ms. Vandna Bhatt explained the importance of ISO 9001: Documentation. ISO 9001 is an internationally recognized standard that provides a framework for organizations to implement and maintain a quality management system. The session was quite interesting and knowledgeable. 35 faculty members across all the departments participated in the event.

RELATIVE GRADING SYSTEM IN EXAMINATION

Hon'ble Vice Chancellor, Prof. I. K. Bhat, Manav Rachna University, Faridabad delivered a session on "Relative Grading System in Examination" (29th February 2024) organized by IQAC, MRU. Prof. Bhat explained different assessing standards, leading to skewness in the scores and how it can be addressed with relative grading system in examination.



DIGITAL TOOLS FOR TEACHING AND LEARNING (ICT-174)

Internal Quality Assurance Cell, MRU and School of Education, MRU Faridabad was earmarked to be one of the Remote centre for Short Term course (ICT-174) on "Digital tools for teaching and learning" organized by NITTTR Chandigarh from 11-15th March, 2024. The aim of this STC was to provide an insight about various digital tools, online resources available freely to access and to use as a tool for effective teaching and learning process. The total of 37 participants attended the STC in person at AV room, Swami Vivekananda Library, L-Block basement with full vigour and learnt



the latest methodologies and tools related to digitalization of delivery methods and assessment tools. Various experts from Academia as well as Practitioners in the field of Education delivered enriching sessions.

EFFECTIVE CURRICULUM DESIGN AND EVALUATION

The Short-term Course on "Effective Curriculum Design and Evaluation" was conducted by the Department of Mechanical Engineering and IQAC in collaboration with the National Institute of Technical Teachers' Training and Research (NITTTR), Chandigarh. The course spanned five days, from 18th March to 22nd March, 2024, aimed at enhancing the understanding and skills of participants in curriculum design and evaluation.



C. FDP's Organised

Dates (from-to) (DD-MM-YYYY)	Title of the professional/ administrative development program organized for the teaching staff/ non-teaching staff	No. of Participants
28-11-2023 to 02-12-2023	FDP on "Internet of Things" in association with ICT Academy	32
12-12-2023 to 13-12-2023	Workshop on "Course Level Problem and Project based Learning: Design and implementation"	27
21-08-2023 to 25-08-2023	FDP on "Sustainable Development Goals: Challenges and Opportunities"	36
12-02-2024 to 16-02-2024	FDP on "Wireless Networks" in association with NITTTR, Chandigarh	23
09-10-2023 to 24-10-2023	FDP on 'Pedagogical Interventions In light of National Education Policy 2020'	422

21-10-2023	Workshop on "Exploring Library Resources with Specific focus on Online data Bases and Remote Access Facility"	12
20-11-2023 to 24-11-2023	STC-ICT on "Advanced Instructional Methods for Teaching-Learning" by NITTTR, Chandigarh	20
7-10-2023	Workshop on "Basics of Research and Paper Writing"	36
04-12-2023 to 09-12-2023	FDP on "Research Methodology"	70
24-07-2023	Empowering Access and Utilization of EBSCO E-Books: Training Session for Enhanced User Experience	63
24-07-2023	STC on "Scilab Programming for Beginners" by Department of ECE, NITTTR, Chandigarh	36
20-05-2023	Workshop on "Team Building & Collaborative Associations" for faculty and Non Teaching Staff	45
08-02-2024	Training session on "Using Plagiarism Detection Software Drill Bit"	43
24-01-2024	Workshop on "User Awareness Intellectual Property"	37
15-09-2023	User awareness training program on IEEE CSDL Unlock your research potential with IEEE Xplore	
27-02-2024	FDP on Research Methodology	65
18-03-2024 to 22-03-2024	STC on "Effective Curriculum Design and Evaluation"	32
11-03-2024 to 15-03-2024	STC on "Digital Tools in Teaching & Learning"	37

D. IQAC Meetings

During the year 2023-24, The first quarterly meeting of the IQAC took place on September 12, 2024, followed by the second quarterly meeting on February 7, 2024. Both meetings included participation from external members and the internal team in which representatives of all stakeholders including experts from industry were invited. The detailed proceedings and Action taken reports are available on the MRU website for all the stakeholders.



ICSSR-sponsored workshop under Short-Term Empirical Research Projects 2023–24 on “Entrepreneurship Development of Rural Women under DAY-NRLM in Haryana”

Nidhi Priya
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FARIDABAD: Key academics and educational institutions came together in Delhi NCR to mark a successful outcome on the theme of Entrepreneurship Development of Rural Women under DAY-NRLM in Haryana. Manav Rachna International Institute of Research was the anchoring agency partnering with the ICSSR for this workshop. Microfinancing has emerged as a powerful tool for poverty alleviation and economic empowerment, particularly among women in rural areas. The DAY-NRLM scheme, with its emphasis on generating self-employment and entrepreneurship among rural women through SHGs, offers a unique context for studying the impact of microfinancing on entrepreneurial development. This workshop stressed on the need to bridge the gap between academia and policymaking by



disseminating research findings, encouraging discussions, and identifying potential policy implications. The aim of the workshop was to present and discuss the findings of an empirical study conducted on the impact of microfinancing on the entrepreneurial development of women with a specific focus on Self-Help Groups (SHGs) mobilised under the Deen Dayal Antyodaya Yojana

National Rural Livelihoods Mission (DAY-NRLM) scheme in Haryana. In the extended gathering at Manav Rachna International Institute of Research, key themes spanning the entrepreneurship development among rural women under DAY-NRLM scheme in Haryana were taken up in the discussion sessions. The interactions focused on the relevance, efficiency, effectiveness, out-

comes, impact, sustainability, challenges, and recommendations of functioning and implementing the DAY-NRLM scheme. The workshop began with the opening remarks by Project Coordinator Dr. Nandini Anand, and Project Director Dr. Roshni Singh. They highlighted the importance of the scheme and its utility for the women entrepreneurs to not only build a livelihood for themselves

She congratulated women on the occasion of International Women's Day. Ms. Pooja Sharma shared her background and journey from being a housewife to the President of her SHG, Kohli. Her training in forming and annual husband's helped her achieve her goals and support her family. This was followed with a presentation by Dr. Nandini Anand, Project Coordinator. This was followed with a presentation by Dr. Nandini Anand, Project Coordinator. This was followed with a presentation by Dr. Nandini Anand, Project Coordinator.

the parliament. He also extended his gratitude to ICSSR for sponsoring and supporting the research project, which in turn will benefit the implementation and empowerment of women under this scheme. In her keynote address, the Chief Guest Dr. Rajesh Singh IPS (Retired) Haryana Sahitya Akademi, Mahabub, Karnal, Haryana, applauded the women entrepreneurs for their courage and tenacity in breaking social biases and moving forward to fulfil their dreams. She encouraged women to promote themselves and support other women for community upliftment. She also emphasised on their performance, financial independence and educating women in leading the movement towards women empowerment. The Chief Guest Dr. Pooja Sharma, President, Kohli Self-Help Group, Boarder of Panchajanya, Nari Shakti Panchayat-301, presented by the Hon'ble President of India, was invited to deliver a speech. She spoke about her experience as a member

and president of a SHG. She addressed the women community support training facilities and financial support available in SHGs. She congratulated women on the occasion of International Women's Day. Ms. Pooja Sharma shared her background and journey from being a housewife to the President of her SHG, Kohli. Her training in forming and annual husband's helped her achieve her goals and support her family. She also highlighted the efforts of women working in SHGs and the support they receive from schemes like DAY-NRLM of the government. She highlighted the importance of entrepreneurship and financial independence for women. This was followed by the felicitation ceremony of award recipients by Dr. Nandini Anand, Project Coordinator. The award recipients were Dr. Nandini Anand, Project Coordinator, and Dr. Roshni Singh, Project Director. The award recipients were Dr. Nandini Anand, Project Coordinator, and Dr. Roshni Singh, Project Director.

he thought on the role of supporting women entrepreneurs in establishing credit and credit and advised on the utility of the research-based evidence in shaping the future policy making. A contrast to women case studies, he also congratulated the women present and praised the support they have received from their families, communities and government to help them achieve great heights. He highlighted the women of Haryana and their contribution in making these SHGs successful and efficient. Expressing his gratitude to the NARS team for completing the research project successfully. To conclude the workshop, a special session was planned called, Aarti Karam Aarti. It was an interactive session by the DAY-NRLM. The workshop was sponsored by Manav Rachna International Institute of Research, Faridabad. The workshop was sponsored by Manav Rachna International Institute of Research, Faridabad. The workshop was sponsored by Manav Rachna International Institute of Research, Faridabad.

ऑल इंडिया इंटर यूनिवर्सिटी शूटिंग चैंपियनशिप में मानव रचना के निशानेबाजों का रहा जलवा

डॉ. कर्णी सिंह शूटिंग रेंज में चैंपियनशिप आयोजित, करीब 400 खिलाड़ियों ने लिया भाग

हयूमन इंडिया / मनीष तोमर फरीदाबाद। मानव रचना इंटरनेशनल इंस्टीट्यूट ऑफ रिसर्च एंड स्टडीज़ (एमआरआईआईआरएस) की ओर से 8 से 11 दिसंबर 2023 तक दिल्ली स्थित डॉ. कर्णी सिंह शूटिंग रेंज में ऑल इंडिया इंटर यूनिवर्सिटी शूटिंग चैंपियनशिप 2023-24 का आयोजन हुआ। इस चैंपियनशिप में देशभर के 63 विश्वविद्यालयों से तकरीबन 400 निशानेबाजों ने भाग लिया। चैंपियनशिप के समापन समारोह में वहीर मुख् अतिथि भारतीय विश्वविद्यालय मंत्र के संपुक् सचिव (वाई ए एवं खेल) डॉ. बलजीत सिंह सेखों, अंतर्राष्ट्रीय विश्वविद्यालय खेल महासंघ (एफआईएसयू) के खेल निदेशक श्री जुआन कैरिओस होल्गाडो, एफआईएसयू में चेयर टेबल कल कमेटी (शूटिंग स्पोर्ट्स)



इवाना एटेलोवा पहुंचे। इनके साथ ही संस्थान से एमआरआईआईआरएस प्रति उप कुलपति डॉ. प्रदीप कुमार, खेल निदेशक एमआरआईआई श्री सरकार तलवार, निदेशक प्रशासन एमआरआईआई श्री अतुल कालरा, प्रशासक खेल एमआरआईआई श्री अराम तलवार और कर्णी सिंह शूटिंग रेंज के प्रशासक श्री कैपी श्रीजीत मौजूद रहे। प्रतिभागिता के 25 मीटर रिपिड फायर पिस्टल (पुरुष) व्यक्तिगत श्रेणी में

एमआरआईआईआरएस से अनोख को स्वर्ण पदक मिला। पंजाब यूनिवर्सिटी बंदीगढ़ से विजयवीर सिद्ध ने रजत और पंजाब यूनिवर्सिटी से आदर्श सिंह ने कांस्य पदक हासिल किया। 25 मीटर रिपिड फायर पिस्टल (पुरुष) टीम इवेंट में पंजाब यूनिवर्सिटी से विजयवीर सिद्ध, आदर्श सिंह देवबी वशिष्ठ ने पहला स्थान पाया। पंजाबी यूनिवर्सिटी फिटमाला ने रजत और एमडीयू रोहतक ने कांस्य जीता। स्पोर्ट्स

पिस्टल महिला (व्यक्तिगत) श्रेणी में पंजाब यूनिवर्सिटी से मनु भाकर ने स्वर्ण जीता। पंजाब यूनिवर्सिटी से मिमरनजीत कौर ने रजत और जोएनडीयू से दिव्यानी धाम ने कांस्य पदक हासिल किया। जबकि टीम इवेंट में दिल्ली विश्वविद्यालय से रिटम खंडवान, पायल, तेजस्वनी को टीम स्वर्ण विजैता रही।

पंजाब विश्वविद्यालय से मनु भाकर, मिमरनजीत कौर, जैयमीन केली ने रजत जीता, वहीं डॉ. बाबासाहेब अंबेडकर मराठवाड़ा विश्वविद्यालय से मोहिनी कातूरे, अंजलि वाघमोडे, तेजविवनी कदम को कांस्य मिला। स्कीट पुरुष (व्यक्तिगत) श्रेणी में पंजाबी यूनिवर्सिटी फिटमाला से अभय सिंह सेखों और महिला वर्ग में जायिया मीरिया इस्लामिका दिल्ली से अरोबा खान ने स्वर्ण पदक जीता।

मानव रचना डेंटल कॉलेज एनएबीएच एक्नीडिटेशन प्राप्त करने वाला हरियाणा का पहला कॉलेज बना

एमआरआईआईआरएस से मान्यता प्राप्त है प्रतिष्ठित मानव रचना डेंटल कॉलेज

एनसीआर क्वाड्रम न्यूज़/अनुराग वर्मा

फरीदाबाद: मानव रचना इंटरनेशनल इंस्टीट्यूट ऑफ रिसर्च एंड स्टडीज (एमआरआईआईआरएस) से मान्यता प्राप्त मानव रचना डेंटल कॉलेज (एमआरडीसी) को नेशनल एक्नीडिटेशन बोर्ड फॉर होस्पिटल्स एंड हेल्थकेयर प्रोवाइडर्स (एनएबीएच) से एक्नीडिटेशन प्राप्त हुई है। एमआरडीसी ये उपलब्धि हासिल करने वाला हरियाणा का पहला डेंटल कॉलेज बन चुका है। यह उपलब्धि दर्शाती है कि एमआरडीसी देश भर में बेहतरीन दंत चिकित्सा शिक्षा और स्वास्थ्य सेवा देने की दिशा में कार्यरत है।

एनएबीएच मान्यता स्वास्थ्य देखभाल में उच्चतम गुणवत्ता मानकों के आधार पर दी जाती है, जिसमें मरीजों की सुरक्षा, देख रेख की गुणवत्ता और निर्धारित दिशानिर्देशों का पालन शामिल है। ये मान्यता एमआरडीसी की असाधारण दंत चिकित्सा शिक्षा, मरीजों की विशेष देखभाल और निरंतर प्रगति के प्रति अपनी प्रतिबद्धता को दर्शाती है।

इस उपलब्धि पर एमआईआईआई के अध्यक्ष डॉ. प्रशांत भल्ला ने सभी फैकल्टी सदस्यों और कर्मचारियों को इसका श्रेय देते हुए कहा



कि, एनएबीएच से मान्यता असाधारण दंत चिकित्सा शिक्षा प्रदान करने के हमारे निरंतर प्रयासों और समर्पण को दर्शाती है। यह हमारी पूरी टीम की कड़ी मेहनत का प्रमाण है। एमआईआईआई के उपाध्यक्ष डॉ. अमित भल्ला ने कहा, एनएबीएच मान्यता योग्य, कर्मठ और ईमानदार दंत पेशेवरों की भावी पीढ़ियों को शिक्षित करने के हमारे मिशन की पुष्टि करती

है। हमारा मकसद ऐसे भावी पेशेवरों को तैयार करना है, जो स्वास्थ्य सेवा के क्षेत्र में मानव कल्याण की भावना को प्राथमिकता दें। एमआईआईआईआरएस के उपकुलपति डॉ. संजय श्रीवास्तव ने कहा, मानव रचना डेंटल कॉलेज ने गुणवत्तापूर्ण स्वास्थ्य सेवा में अग्रणी रहते हुए प्रमुख एनएबीएच मान्यता प्राप्त की है, जो कि सम्मान की बात है। यह

प्रतिष्ठित मान्यता मात्र उपलब्धि नहीं है, बल्कि दंत चिकित्सा शिक्षा में संस्थान की उत्कृष्टता को भी दर्शाती है। एमआईआईआईआरएस के प्रिंसिपल डॉ. पुनीत बत्रा ने कहा, एनएबीएच मान्यता दंत चिकित्सा क्षेत्र में गुणवत्ता के उच्चतम मानकों को बनाए रखने की हमारी प्रतिबद्धता को स्पष्ट करती है। गर्व है कि हम यह प्रतिष्ठित मान्यता प्राप्त करने वाले हरियाणा का पहला डेंटल कॉलेज बन चुके हैं। आने वाले वर्षों में अपने मानकों का स्तर और ऊंचा करने के लिए दुड़ता के साथ काम करेंगे। मानव रचना डेंटल कॉलेज के बारे में एमआईआईआईआरएस से संबद्ध मानव रचना डेंटल कॉलेज को उत्तर भारत में प्रमुख डेंटल कॉलेज के रूप में मान्यता प्राप्त है,

जो दंत चिकित्सा शिक्षा, अनुसंधान और स्वास्थ्य सेवा में उत्कृष्टता के साथ योग्य पेशेवरों को तैयार करने में जुटा है। एनआईआईआईआरएस के उपाध्यक्ष डॉ. 39 वां स्थान मिला था, वहीं अब इसने हरियाणा में प्रतिष्ठित एनएबीएच एक्नीडिटेशन हासिल करने वाले पहले डेंटल कॉलेज की उल्लेखनीय उपलब्धि हासिल की है।

अंतरराष्ट्रीय सम्मेलन ब्रिक्सेस-2024 में खेल और समग्र स्वास्थ्य पर विद्वानों ने की चर्चा

सामाजिक जीवन/राधिका बहल

फरीदाबाद: मानव रचना इंटरनेशनल इंस्टीट्यूट ऑफ रिसर्च एंड स्टडीज (एमआरआईआईआरएस) में सोमवार को दूसरे अंतरराष्ट्रीय सम्मेलन ब्रिक्सेस-2024 का शुभारंभ हुआ। 'ब्रिक्सेस' और युवाओं के लिए समग्र स्वास्थ्य और खेल में प्रगति: विज्ञान के जरिए नवाचार, एप्लीकेशन और स्थिरता' विषय पर आयोजित हुए इस चार दिवसीय सम्मेलन में 20 देशों से आगे 450 से ज्यादा प्रतिनिधियों ने हिस्सा लिया। कार्यक्रम में वक्ताओं ने राष्ट्रीय गतिविधि, नवीन प्रौद्योगिकी के एप्लीकेशन और प्राचीन चिकित्सा के कभी खाने के लिए नवीनतम योग के महत्व जैसे विषयों पर विचार रखे।

सम्मेलन की शुरुआत स्वागत सत्र के साथ हुई, जिसमें मेहो ब्रिक्सेस, यूएफ के प्रोफेसर व अमेरिकन सोसाइटी फॉर प्रिंटींग काइंटिपोलोजी के पूर्व अध्यक्ष स्ट्रीफन कोरेकी ने सभी को संबोधित करते हुए नीतिगत रीति से बचक के लिए राष्ट्रीय स्तर से संकेत रखने पर जोर दिया। साथ ही स्वास्थ्य स्तर के लिए योग, तंत्रित नींद, खेलकूद, बनेरेशन जैसे विषयों पर भी बात की। सब की अध्यक्षता प्रति उप कुलपति एमआईआईआईआरएस प्रोफेसर जीएल खन्ना और डॉ. जितन सोनी ने की।

इसके बाद सम्मेलन अतिथियों और वक्ताओं ने सम्मेलन में विषय के दृष्टिकोण और उद्देश्यों पर प्रकाश डाला। एमआईआईआईआरएस के प्रति उपकुलपति और प्रिंसिपल के संस्थापक सदस्य व उपाध्यक्ष प्रो. जी. एल. खन्ना ने स्वागत भाषण



देते हुए खेल और स्वास्थ्य विज्ञान पर वैश्विक चर्चा को आगे बढ़ाने में सम्मेलन की महत्वपूर्ण भूमिका पर बात की। उन्होंने खेल शिक्षा और अनुसंधान की दिशा में एमआईआईआईआरएस की ओर से किए जा रहे प्रयासों के बारे में बताया और कहा कि संस्करण खेलों को बढ़ावा के लिए प्रयुक्त से काम कर रहा है। एमआईआईआई के अध्यक्ष डॉ. प्रशांत भल्ला ने अध्यक्षीय सम्मेलन में खेल और स्वास्थ्य विज्ञान में उत्कृष्टता के लिए सहयोग, नवाचार और प्रतिभाओं को सारने के महत्व पर जोर देकर कहा। उन्होंने कहा कि भारत विकास के मार्ग पर अग्रे बढ़ रहा है और पूरे विश्व को नजर देता पर है। खेलों और स्वास्थ्य के क्षेत्र में बेहतरी के साथ ही उपक्रमों की नोट मोटी के विकास भारत करने को पूरा किया जा सकता है।

एमआईआईआईआरएस के उपकुलपति डॉ. संजय श्रीवास्तव ने स्वास्थ्य और शारीरिक शिक्षा में आधुनिक चुनौतियों के सम्मेलन में वैश्वीकरण संस्थानों की भूमिका पर विचार रखे। उन्होंने सामाजिक कल्याण के लिए नवाचार और अनुसंधान की तर्फ से किए जा रहे कार्यों पर भी चर्चा की। ब्रिक्सेस के अध्यक्ष और संस्थापक सेक्रेटरी-जनरल, दक्षिण अफ्रीका के प्रोफेसर हंस डी रिडर ने ब्रिक्सेस पर उद्घाटन भाषण देते हुए सम्मेलन के विषय को विस्तार से समझाया। साथ ही खेल व स्वास्थ्य विज्ञान शिक्षा और अनुसंधान के भविष्य पर अपनी बात रखी।

लेफ्टिनेंट जनरल डॉ. जगदीप सिंह चौगुला ने ब्रिक्सेस सम्मेलन अतिथि कहा कि सम्मेलन का विषय जटिलता और सामाजिक तौर पर हर किसी के लिए महत्वपूर्ण है। हर आयु वर्ग के लोगों को मानसिक और शारीरिक तौर पर स्वस्थ होना जरूरी है और इसके बारे में जागरूकता को ऐसे सम्मेलन महत्वपूर्ण बनाने वाले हैं। मानवीय गुणवत्ता, अतिथि, श्रमोत्तमता, सहयोग, खेल, सविनय, भारत सरकार ने सम्मेलन को अर्चनादान संबंधित किया। उन्होंने खेल और स्वास्थ्य के क्षेत्रों में सरकार के लक्ष्य और उद्देश्य पर सराहनीय प्रयासों पर प्रकाश डाला। उन्होंने कहा कि इस तरह के सम्मेलन सरकारी नीतियों के निर्धारण में महत्वपूर्ण भूमिका निभाते हैं और पूरी उम्मीद है कि इस सम्मेलन से भी बेहतर निष्कर्ष निकले।

सम्मेलन के दौरान ब्रिक्सेस अध्यक्ष, जर्नल और एक्सक का डिमोशन भी किया गया। सम्मेलन सत्र में विभिन्न क्षेत्रों में उत्कृष्ट योगदान के लिए पुरस्कार वितरित किए गए। अंत में अखिल भारतीय डॉ. राजीव गुप्त ने सभी का आभार जताते हुए कहा कि ये सम्मेलन महान, अनुसंधान और नवाचार की भावना को दर्शाता है। ब्रिक्सेस थर्डेस अफेयर एमआईआईआईआरएस (ब्रिक्सेस थर्डेस) की स्थापना खेलों के स्वास्थ्य और कल्याण के संबंध में ब्रिक्सेस की विशिष्ट पहिनाओं को संबोधित करने की आवश्यकता को लेकर कई अंतराष्ट्रीय विशेषज्ञ प्रो-कॉन्फेस कार्यशलाओं का आयोजन करने में जुटे हैं। इनमें ब्रिक्सेस के संस्थापक और पूर्व अध्यक्ष प्रोफेसर डॉ. गिरी-नंद चित्त, ब्रिक्सेस के संस्थापक अध्यक्ष प्रो. हंस डी रिडर सहित कई गणमान्य लोग शामिल हैं।



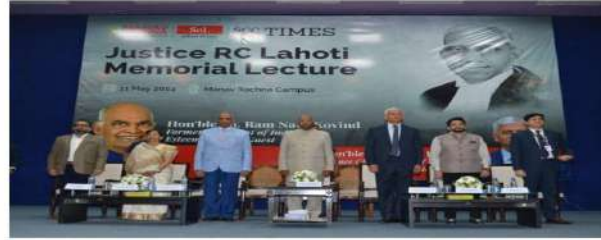
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भारत के पूर्व राष्ट्रपति माननीय श्री राम नाथ कोविन्द मानव रचना पधारे; जस्टिस आरसी लाहोटी मेमोरियल सीरीज़ में बतौर मुख्य अतिथि हुए उपस्थित

By Ajay verma - May 12, 2024

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टुडे एक्सप्रेस न्यूज़ | ब्यूरो रिपोर्ट। फरीदाबाद, मानव रचना विश्वविद्यालय (एमआरएचयू) के स्कूल ऑफ लॉ की ओर से शनिवार को प्रतिष्ठित जस्टिस आरसी लाहोटी मेमोरियल लेक्चर सीरीज़ का आयोजन किया गया। माननीय जस्टिस आरसी लाहोटी की समृद्ध कानूनी विरासत की स्मृति में आयोजित

मानव रचना विश्वविद्यालय, फरीदाबाद, हरियाणा में आयोजित कार्यक्रम का दृश्य।

मानव रचना के पहले ओपन बास्केटबॉल टूर्नामेंट में पानीपत और सोनीपत की टीमों ने बाजी मारी

22 टीमों में करीब 2 सौ से ज्यादा खिलाड़ियों ने लिया टूर्नामेंट में भाग

दैनिक कलश जागरण/मनीषा कुमारी फरीदाबाद। मानव रचना इंटरनेशनल इंस्टीट्यूट ऑफ रिसर्च एंड स्टडीज (एमआरआईआईआरएस) के खेल निदेशालय की ओर से पहले मानव रचना दिल्ली-एनसीआर ओपन बास्केटबॉल टूर्नामेंट 2023 का आयोजन किया गया। परिसर स्थित बास्केटबॉल कोर्ट में सम्पन्न हुए इस दो दिवसीय टूर्नामेंट में महिला और पुरुष वर्गों के तहत कुल 22 टीमों ने भाग लिया।

टूर्नामेंट का उद्घाटन एमआरआईआईआरएस के कुलपति डॉ. संजय श्रोवास्तव और खेल निदेशक श्री सरकार तलवार ने किया। इसके बाद टूर्नामेंट में दिल्ली, फरीदाबाद, नोएडा, गुरुग्राम, सोनीपत, पानीपत और रोहतक से आए खिलाड़ियों ने दमखम दिखाया। टूर्नामेंट में विभिन्न शहरों से 2 सौ से ज्यादा खिलाड़ी शामिल हुए। पहले दिन प्रतिभागी टीमों ने सेमीफाइनल में जगह बनाने के लिए कड़ी मशकत की। इसके बाद सेमीफाइनल और फाइनल मुकाबलों में विजेता ट्रॉफी पाने के लिए टीमों आमने-सामने उतरी। दूसरे दिन आयोजित हुए

समापन समारोह में सभी विजेताओं और उपविजेताओं को नकद पुरस्कार



देकर पुरस्कृत किया गया। टूर्नामेंट के प्रायोजकों के तौर पर रॉयल एनफोल्ड, वेस्पायर एड्टेक प्राइवेट लिमिटेड और बीएमडब्ल्यू बाइक ने सहयोग दिया। टूर्नामेंट में पुरुषों का पहला सेमीफाइनल मुकाबला पानीपत-11 और एमिटी नोएडा के बीच हुआ, जिसमें पानीपत-11 की टीम विजेता रही। दूसरा सेमीफाइनल

मुकाबला केएमसी दिल्ली और गुडगांव क्लब के बीच हुआ, जिसमें केएमसी

दिल्ली की टीम ने बाजी मारी। फाइनल मुकाबले में पानीपत-11 और केएमसी दिल्ली की टीमों आमने-सामने रही जिसमें पानीपत-11 की टीम ने विजेता का खिताब जीता। वहीं महिला वर्ग का पहला सेमीफाइनल मुकाबला एमआरआईआईआरएस और गीतांजलि अकादमी सोनीपत के बीच हुआ, जिसमें गीतांजलि अकादमी सोनीपत की टीम जीती। दूसरा सेमीफाइनल स्टोबेरी क्लब फरीदाबाद और छोट्टराम एकेडमी सोनीपत के बीच हुआ, जिसमें छोट्टराम एकेडमी की टीम ने बाजी मारी। फाइनल मुकाबले में गीतांजलि अकादमी सोनीपत और छोट्टराम अकादमी सोनीपत की टीमों मैदान में उतरीं जिसमें, छोट्टराम एकेडमी की टीम ने विजेता ट्रॉफी हासिल की।

हूआ, जिसमें गीतांजलि अकादमी सोनीपत की टीम जीती। दूसरा

सेमीफाइनल स्टोबेरी क्लब फरीदाबाद और छोट्टराम एकेडमी सोनीपत के बीच हुआ, जिसमें छोट्टराम एकेडमी की टीम ने बाजी मारी। फाइनल मुकाबले में गीतांजलि अकादमी सोनीपत और छोट्टराम अकादमी सोनीपत की टीमों मैदान में उतरीं जिसमें, छोट्टराम एकेडमी की टीम ने विजेता ट्रॉफी हासिल की।

नदरान आरम्भ (कलर प्रकाशन)।
बुधवार, 10 अक्टूबर : श्री दुर्लभतम जयती महोत्सव
संविनार 14 अक्टूबर को सुरु होगी।

का वार होता है, वही ग्रह संपूर्ण वर्ष
का राजा होता है। जैसे इस वर्ष का
संविनारों ने प्रत्येक संवत्सर का सम्म
के नाम करण किए हैं जो संवत्सर में जो

जागरण सिटी फरीदाबाद

एमआर के 27 एलुमनाई को नेहा धूपिया ने किया सम्मानित

जागरण संवाददाता, फरीदाबाद : मानव रचना शिक्षण संस्थान में पढ़ाई कर देश के विभिन्न संस्थानों में प्रतिष्ठित पदों पर विराजमान विभिन्न हस्तियों को संस्थान प्रांगण में आयोजित कार्यक्रम में उत्कृष्ट आइकान्स ऑफ मानव रचना-2024 अवार्ड से सम्मानित किया गया। कार्यक्रम को मुख्य अतिथि फिल्म अभिनेत्री नेहा धूपिया थीं। संस्थान के अध्यक्ष डा. प्रशांत भल्ला की अध्यक्षता में आयोजित कार्यक्रम में उपाध्यक्ष डा. अमित भल्ला, डा. संजय श्रीवास्तव, सनम भल्ला विशेष रूप से उपस्थित थे। मुख्य अतिथि ने संस्थान की स्मारिका उत्कृष्ट आइकान्स ऑफ मानव रचना 2024 का अनावरण भी किया।

जिन हस्तियों को सम्मानित हुआ,
अतरंगी क्रिकेट क्लब ने जीता मुकाबला

मानव रचना शिक्षण संस्थान उत्कृष्ट आइकान्स ऑफ मानव रचना स्मारिका का विमोचन करती फिल्म अभिनेत्री नेहा धूपिया, सब में दाएं हैं संस्थान के अध्यक्ष डा. प्रशांत भल्ला और डा. अमित भल्ला बाएं से दूसरे = लैबीअरओ एडुआर संस्थान

उन्में राष्ट्रीय अल्पसंख्यक विकास गंभीर, विज्ञानी प्रियंका मंगला व अमित कुमार, कुणाल चोपड़ा, अंतरराष्ट्रीय एक्सीट ओम प्रकाश करहाना, निशानेबाज राधक भारद्वाज

व सान्या शर्मा, रोलर स्केटर प्रॉजल तेंवर, फिल्म जगत व गायन क्षेत्र से जुड़ी आकांक्षा त्रिपाठी, सुमित शर्मा, जतिन चौधरी, डा. वाणी भसीन, सामाजिक कार्यकर्ता शिवानी भारद्वाज, जज डा. सोनिया किनए सहित विभिन्न क्षेत्रों की प्रमुख हस्तियों में डा. अशीष प्रदी, नितिन अग्रवाल, कैफ़े भारती, अप्रति तथ्यांगी व गौरव दुआ, अर्णव कालरा, पलक अरोड़ा, सलम गुप्ता, भावेश बिट, बानी डल, आकाश त्रिखा प्रमुख रूप से शामिल थे। डा. प्रशांत भल्ला व डा. अमित भल्ला ने सम्मानित होने वाली हस्तियों को बधाई दी। इस अवसर पर डा. एनसी वधवा, डा. गौरी भसीन, दीपिका भल्ला, ममता वधवा, निशा भल्ला, संयोजिता शर्मा उपस्थित थे।

एकार्ड इलेवन बनी पीसीके कप की विजेता

मानव रचना में एचआर राउंड टेबल के तीसरे संस्करण का आयोजन हुआ ; चार सत्रों में प्रतिष्ठित कंपनियों से विशिष्ट प्रतिनिधियों ने की चर्चा

एनसीआर क्लाइम न्यूज़/अनुराग शर्मा

श्री अरुण मेहरा - पूर्व सीईओ, नैटिवो नेटवर्क (एचसीटी)। चार्ल्स एल्लोरे डीनर ने फेडरल मानव उद्योगों और विज्ञान संस्थानों के बीच केदर कनेक्शन के कारा लोकरा विकास का लक्ष्य

फरीदाबाद: मानव रचना इंटरनेशनल इंस्टीट्यूट ऑफ़ रिसर्च एंड स्टडीज (एमआरआईआईआरएस) में शनिवार को स्कूल ऑफ़ लीडरशिप एंड मैनेजमेंट की ओर से एचआर राउंड टेबल के तीसरे संस्करण का आयोजन हुआ। 'मनूचर रेडी-डिफेंडिंग' द वे फोरवर्ड-विषय पर हुए इस कार्यक्रम में देशभर की प्रतिष्ठित कंपनियों से विशिष्ट प्रतिनिधियों ने हिस्सा लिया।

उद्घाटन सत्र को संयोजित करते हुए डॉ. अमित भास्कर, उपाध्यक्ष, एमआरआईआई ने कहा, 'मानव रचना में इन्वेंशन और नए स्टार्टअप को बढ़ावा देकर युवाओं को हुसमद बनाना जाता है, जिससे कि उद्योगों की जरूरतों के मुताबिक पावो पेशेवर तैयार हो सकें। एचआर राउंड टेबल जैसे कार्यक्रम का मकसद विभिन्न उद्योगों/वर्गों और प्रतिष्ठानों को एक मंच पर लाकर अलग विषयों से जुड़े मुद्दों के जवाब तलाशना है। कार्यक्रम के मेंटर रहे डॉ. एस.वाई. रिपरीकी, चैपमैन, स्ट्रेटिजिक मेंटरिंग बोर्ड, एमआईआईआई व पूर्व कार्यकारी सलाहकार, मासुति सुजुकी इंडिया लिमिटेड ने कहा, 'बदलती चुनौतियों के साथ बदलाव जरूरी है। हर परिस्थिति में उत्कृष्टता प्राप्त करने के लिए संगठनों को लक्ष्योपम और दृढ़ता के साथ अनुकूल नेतृत्व के माध्यम से कार्य संभालना पड़ेगा। इसके बाद बतौर मुख्य भाषण में श्री अरुण मेहरा - पूर्व सीईओ, नैटिवो मोबाइल (एचसीटी)। पाटनर, एसवीपी इंडिया ने कहा कि, 'गतिशील कार्यस्थल आज की जरूरत है और कार्यस्थल की जरूरतों के हिसाब से संगठनों को बदलना चाहिए। पेशेवरों के लिए जहां आधुनिक हार्डवेयर कार्य मॉडल में अप्रैलसिंग भेद जरूरी है, वहीं लीडरशिप स्तर पर नेतृत्व के साथ सहानुभूति, विश्वास और फार्मलता



जैसे गुणों का समावेश चाहिए।' कार्यक्रम के दौरान कुल चार सत्रों में फैल चर्चा हुई जिसमें वक्ताओं ने विभिन्न विषयों पर विचार और सुझाव साझा किए। पहले सत्र में 'कार्य का भविष्य (कार्य, कार्यस्थल और कार्यस्थल)' विषय पर चर्चा हुई। मॉडरेटर की भूमिका निभाते हुए श्री दीपक धवन, सीईओ और संस्थापक, टैलेंटनिक एचआर सॉल्यूशंस प्राइवेट लिमिटेड ने कहा, 'नवाचार और नेतृत्व सामने आने वाली जटिल चुनौतियों को दूर करने के प्रमुख साधन हैं। पिछले दशक में सभी स्तरों पर हमने जो तेजी से विकास देखा है, वह देश के लिए नई उम्मीद है।' फैल में श्री अनुपम मलिक, पाटनर, अर्नस्ट एंड यंग और श्रीमती सीमा शर्मा, उपाध्यक्ष व मुख्य लोक अधिकारी, मॉडिटा एगरो एड डिमेंस सेक्टर, मॉडिटा एडिटा शामिल रहे।

दूसरा सत्र समय से पूर्व कौशल विकास- उच्च शिक्षा की भूमिका विषय पर हुआ, जिसमें मॉडरेटर की भूमिका निभाते हुए एमआरआईआईआरएस के उपकुलपति प्रोफेसर (डॉ.) संजय मानव संसाधन अधिकारी, मासुति सुजुकी इंडिया लिमिटेड शामिल रहे।

सामाजिक विकास के साथ वैश्व नेतृत्व को बढ़ावा देने की भी है। एआई युग में भी भावनात्मक बुद्धिमत्ता और पारस्परिक कौशल महत्वपूर्ण भूमिका निभाते रहेंगे। फैल में टैक मॉडिटा के वरिष्ठ उपाध्यक्ष मानव संसाधन, श्री अधिकारी तिवारी, एमआरवीपीएल की चीफ ऑपरिंग अधिकारी डॉ. गौरी भसीन और डॉ. इंडस्ट्री कनेक्ट, मैनेजमेंट टेबलपैमेंट इंस्टीट्यूट (एमआईआई), गुडगांव प्रो. (डॉ.) सुमिता राय ने चर्चा की। तीसरे सत्र में 'बहु-पैरिघात कार्यक्रम का प्रबंधन- विषय पर बतौर मॉडरेटर श्री केएस बख्शी, मप हैड-मानव संसाधन इंटरनेशनल एटर्नलजें ने कहा, 'एक ऐसा वातावरण तैयार करना जरूरी है जहां नवाचार व विकास के लिए कार्यक्षम को उचित माहौल मिले। बहु-पैरिघात वाले कार्यक्रम के प्रबंधन के लिए विभिन्न आउट वॉर्कों की प्राथमिकताओं, मुल्यों और सीमाओं के बीच संतुलन रखना चाहिए।' फैल में श्रीमती किरण सिंह, प्रमुख-मानव संसाधन, माद डेयरी फसट एंड वेजिटेबल प्रा. लिमिटेड और श्री सलिल बिहारी लाल, मुख्य मानव संसाधन अधिकारी, मासुति सुजुकी इंडिया लिमिटेड शामिल रहे।

चौथे सत्र में जीवन में पर्यावरण, सामाजिक और कॉर्पोरेट प्रशासन का समावेश- विषय पर श्री इंदजीत सिंह, पाटनर, वित्तीय सलाहकार डेलॉइट इंडिया और डॉ. धीरज वर्मा एवीपी-एचएसई और सस्टेनेबिलिटी ऑपरेटिंग सिस्टम- हाई कोलेज - स्लैबल, हितावी एनजी टेक्नोलॉजी सर्विसेज प्राइवेट लिमिटेड ने विचार रखे। मॉडरेटर के तौर पर डॉ. सुरेश निचारी, मुख्य मानव संसाधन अधिकारी, एयर इंडिया ने कहा, 'पर्यावरण, सामाजिक और शासन (एसएसजी) आज के दौर में व्यवसायिक योजनाओं का मुख्य बिंदु है और सभी हितधारकों को प्रभावित करता है। व्यावसायिक लक्ष्यों को निर्धारित करते हुए सामुदायिक आवश्यकताओं और पर्यावरणीय हितों पर भी फोकस होना चाहिए।' सम्मपन सत्र में श्रीमती प्रीति बजाज, सीईओ और प्रबंध निदेशक, ल्यूमिनेस पावर टेक्नोलॉजीज प्राइवेट लिमिटेड ने उद्योगों के रक्षकों पर चर्चा करते हुए भविष्य में तत्कालीन जरूरतों कोशल और सतत प्रयासों जैसे बिंदुओं पर प्रकाश डाला। श्री राजीव कपूर, एमडी, एमआईआई ने कहा कि, 'एचआर राउंड टेबल ने उद्योग जगत के

सम्मानित प्रतिनिधियों और प्रतिष्ठित दिग्गजों को अपने अनुभव और रणनीतिक दूरदर्शिता को साझा करने का मंच दिया है। इस दौरान रखे गए बहुमूल्य विचार भविष्य के लक्ष्य से मालवपूर्ण नीतियां बनाने में मददगार साबित होंगे।' सम्मपन सत्र में श्री राजीव दुबे- मेंटर, एचआर राउंड टेबल; चैपमैन, मॉडिटा फसट चॉइस वील्ड लिमिटेड; सस्टेन, गर्मिन बॉडी-अंतर्ग्रहीत ग्राम संगठन, जिन्नेबा ने कहा, 'एचआर राउंड टेबल का एक संस्करण, अग्रणी उद्योग पेशेवरों और शिक्षाविदों के नज़रिए से इन मुद्दों के जवाब तलाशना है, जिन्नेबा न्यू नॉर्मल के साथ आगे बढ़ने की तैयारी करते हुए संगठन जुड़ा रहे।' मानव रचना एचआर राउंड टेबल प्रोफेसर डॉ. दीपि खवास हजारीकर, डॉ. स्मल अफ लीडरशिप एंड मैनेजमेंट को देखरेख में आयोजित किया गया। इसमें प्रसिद्ध उद्योगों के प्रतिनिधियों को एक मंच पर लाकर उनके अनुभवों, दूरदर्शी सोच, नवीन दृष्टिकोण व विशिष्ट कर्तव्यों को साझा करने का मौका दिया, जिससे संगठनों को भविष्य के लिए प्रभावशाली रणनीति तैयार करने में मदद मिलेगी।



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मानव रचना में स्कूल ऑफ मीडिया स्टडीज एंड ह्यूमैनिटीज की ओर से दो दिवसीय अंतरराष्ट्रीय सम्मेलन का आयोजन हुआ

नैरेटिव एंड नैरेशन: मैपिंग आउट लेटेस्ट ट्रेंड्स इन साउथ
एशियन लिटरेचर रहा सम्मेलन का विषय



By P Today — On Feb 3, 2024



मानव रचना में स्कूल ऑफ मीडिया स्टडीज एंड ह्यूमैनिटीज की ओर से
दो दिवसीय अंतरराष्ट्रीय सम्मेलन का आयोजन हुआ

फरीदाबाद, 03 फरवरी। मानव रचना इंटरनेशनल इंस्टीट्यूट
ऑफ रिसर्च एंड स्टडीज (एमआरआईआईआरएस) के अंग्रेजी

मानव रचना के छात्र अनीश भानवाला ने 19वें एशियाई खेल में कांस्य पर साधा निशाना

फरीदाबाद, 30 सितम्बर (रैपको न्यूज)। मानव रचना शैक्षणिक संस्थान का देश को राष्ट्रीय और अंतरराष्ट्रीय स्तर पर कई पदक दिलाने में अहम योगदान रहा है। फिलहाल चीन के हांगझोऊ में चल रहे 19वें एशियाई खेलों में भी संस्थान के छात्र अनीश भानवाला ने देश का नाम चमकाया है।

एशियाई खेलों में 25मीटर रैपिड पिस्टल के टीम इवेंट में कांस्य पदक जीतने वाली भारतीय टीम में शामिल अनीश भानवाला मानव रचना इंटरनेशनल स्कूल चार्मवुड विलेज, एमआरआईएसडब्ल्यू के पूर्व छात्र हैं। मानव रचना इंटरनेशनल इंस्टीट्यूट ऑफ रिसर्च एंड स्टडीज; एमआरआईआईआरएसडब्ल्यू से स्नातक की पढ़ाई पूरी करने के बाद अनीश फिलहाल यहीं से एमबीए कर रहे हैं।

सोनीपत में जन्मे और हरियाणा के करनाल में पले बड़े अनीश ने साल 2018 में मानव रचना इंटरनेशनल स्कूल चार्मवुड में अपनी स्कूली शिक्षा पूरी की और बोर्ड परीक्षाओं में शानदार प्रदर्शन के साथ 90 फीसदी अंक हासिल किए थे। अनीश का रुझान बेहद कम उम्र से ही शूटिंग की तरफ हो गया था। मानव रचना की अत्याधुनिक शूटिंग अकादमी का उनकी सफलता में विशेष योगदान रहा है। अकादमी में उन्हें



बेहतरीन प्रशिक्षण के साथ राष्ट्रीय और अंतरराष्ट्रीय स्तर पर प्रशंसित कोचों के मार्गदर्शन में खेल प्रतिभा को निखारने के लिए एक पोषण वातावरण प्रदान किया गया है।

उपलब्धियों की बात करें तो कॉमनवेल्थ गेम्स 2018 में शूटिंग चैंपियनशिप में अनीश ने देश की झोली में स्वर्ण पदक डाला और मात्र 15 साल की उम्र में ये उपलब्धि हासिल करने वाले पहले भारतीय खिलाड़ी बने। साल 2017 में ब्रिस्बेन में कॉमनवेल्थ शूटिंग चैंपियनशिप में रजत पदक भी उनकी शानदार उपलब्धियों में शामिल रहा है।

साल 2018 में सिडनी में हुए आईएसएसएफ जूनियर विश्व कप में अनीश ने ना सिर्फ व्यक्तिगत स्वर्ण हासिल किया, टीम को पदक दिलाने में भी विशेष योगदान दिया। शूटिंग से पहले उन्होंने एथलीट के तौर

पर भी कई बार प्रतिभा दिखाई है। उन्होंने अंडर-12 मॉडर्न पेंटाथलॉन विश्व कप में भारत का प्रतिनिधित्व किया था। वहीं साल 2013 में अंडर-12 मॉडर्न पेंटाथलॉन विश्व चैंपियनशिप और 2015 में एशियाई मॉडर्न पेंटाथलॉन चैंपियनशिप में भी उनकी भागीदारी रही।

निशानेबाजी में अनीश भानवाला ने कई प्रतिष्ठित पुरस्कार और उपलब्धियों को हासिल किया है।

साल 2019 में ए उन्हें असाधारण खेल प्रतिभा और खेल के क्षेत्र में महत्वपूर्ण योगदान के लिए प्रधानमंत्री राष्ट्रीय बाल पुरस्कार से सम्मानित किया गया। वर्ष 2019 में ही अनीश को योनी एसबीआई एथलीट ऑफ द ईयर का अवॉर्ड मिला। वर्ष 2017-18 और 2018-19 के लिए ज्यै; टाइम्स ऑफ इंडिया स्पोर्ट्स अवार्ड्स की ओर से वर्ष 2017-18 और 2018-19 में उन्हें इमर्जिंग प्लेयर ऑफ द ईयर अवार्ड्स से नवाजा गया।

शूटिंग में उनकी बेहतरीन खेल प्रतिभा को देखते हुए भारतीय खेल प्राधिकरण ने 2016-17 और 2017-18 दोनों के लिए प्रतिष्ठित एथलीट ऑफ द ईयर पुरस्कार से सम्मानित किया। साल 2022 में हरियाणा सरकार ने उनके समर्पण को देखते हुए माननीय राज्यपाल बंडारू दत्तात्रेय जी ने प्रतिष्ठित भीम पुरस्कार से सम्मानित किया था।

(रैपको न्यूज)। मानव रचना शैक्षणिक संस्थान का देश को राष्ट्रीय और अंतरराष्ट्रीय स्तर पर कई पदक दिलाने में अहम योगदान रहा है। फिलहाल चीन के हांगझोऊ में चल रहे 19वें एशियाई खेलों में भी संस्थान के छात्र अनीश भानवाला ने देश का नाम चमकाया है।

मौसम अप्रत्याशित रहने के कारण शूटिंग प्रतियोगिताएं स्थगित हो गई हैं। अनीश भानवाला ने इस अवसर पर कहा कि वे अपने खेल में निरंतर प्रशिक्षण ले रहे हैं और आशा है कि जल्द ही वे अपने देश का नाम चमका सकेंगे।