



मालवीय राष्ट्रीय प्रौद्योगिकी संस्थान जयपुर  
MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR  
(An Institute of National Importance)



# MNITJ NEWS

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## Vision

To create a centre for imparting technical education of international standards and conduct research at the cutting edge of technology to meet the current and future challenges of technological development.

## Mission

To create technical manpower for meeting the current and future demands of the industry: To recognize education and research in close interaction with industry with emphasis on the development of leadership qualities in the young men and women entering the portals of the Institute with sensitivity to social development and eye for opportunities for growth in the international perspective.

## From the Director's Desk

Dear Readers,

I am pleased to introduce the present edition of the quarterly MNIT Jaipur Newsletter. I extend my warmest congratulations to the dedicated editorial team and management for their unwavering commitment and diligence.

In an era dominated by digital media, we recognize the immense potential it holds for our lives. It is with immense satisfaction that I observe the team harnessing this potential to its fullest, resulting in the creation of this newsletter. This new electronic newsletter allows us to 'go green' and obtain MNIT Jaipur campus news more timely than ever. Like its previous editions, this newsletter outlines the many activities, including achievements and awards for faculty and students, strides toward quality research and scholarship to improve the built environment in our state and region, and our alumni and friends giving back to their communities.

This edition of the newsletter timeline is from 11 April to 31 July 2023, highlighting the major developmental works and additions made to MNIT Jaipur by the administration to enhance the campus and upgrade the quality of education for which MNIT Jaipur is known.



We are committed to focusing on providing excellent professional education and fostering new knowledge creation through applied research and advanced training. I also welcome the newly admitted batch of undergraduate, postgraduate, and PhD scholars joining us in the new academic session of 2023–24.

It is with particular gratification that I note the role of this newsletter in fostering a connection with our globally accomplished alumni. These individuals are raising our college's reputation to greater heights and inspiring our students to aim higher by learning about our institute's triumphs.

I am sure that you will derive immense satisfaction from reading this edition of the MNIT Jaipur Newsletter. As always, I extend my best wishes for your well-being and that of your family.

Prof. N.P. Padhy  
Director, MNIT



## DEPARTMENT NEWS

### Department of Chemical Engineering

- A National Short Term Course on Skill Development Training Programme was successfully conducted by the department at MNIT Jaipur from 18 to 22 July 2023. The course aimed to enhance participants' skill sets and provide valuable personal and professional development training.
- Dr. V. Subbaramaiah, Assistant Professor, was awarded the 'SERB International Research Experience (SIRE) Fellowship' for 2023. DST provided this fellowship for six months with return airfare, visa, and airport transfer allowance to get international exposure.
- Dr. Sonal received the esteemed SERB International Research Experience (SIRE) award, which allows her to be a visiting researcher at Washington University in St. Louis, USA. The award recognizes Dr. Sonal's research capabilities and supports her six-month research journey at the renowned institution.
- The students from the department visited LPG terminal at IOCL Sitapura, Jaipur. They were accompanied by Dr. Vikas K. Sangal, Associate Professor.

- The Department hosted a National Seminar on Career Counselling Programme on 21 June 2023. The seminar provided a platform to discuss and explore various aspects of career counselling, contributing to individuals' better guidance and growth.
- Dr. Rajeev Kumar Dohare, Associate Professor, delivered an Invited Talk on the topic 'Valorization of Plastic Waste for Wastewater Treatment' under the Short Term Course on 'Advances in Energy, Environment, and Chemical Engineering (AEECE) 2023', organized by the Department of Chemical Engineering, NIT Jalandhar, from 19 to 23 May 2023.

### Department of Chemistry

- Dr. Meena Nemiwal, Assistant Professor, is working on a project to develop novel ferrocene-based metal-organic frameworks as heterogeneous catalysts for sustainable organic transformations. This project is funded by the MoE-MHRD with a grant of Rs. 30 lakh and is expected to continue from 2023 to 2026.



## Department of Civil Engineering

- The Department celebrated World Water Day on 22 April 2023. Dr. Nivedita Kaul, Associate Professor, coordinated various events. Events like Slogan Competition, UG and PG students' presentations, and a guest lecture by Mr. Satish Jain, Executive Engineer, PHED, were organized.
- Patent Application titled, "Utilization of Shale Aggregates in Subbase Layer for Flexible Pavement: A Method", bearing registration number 202311033395, was filed on May 11, 2023, to the Patent Office, Govt. of India. The creative minds behind this concept are Dr. Arun Gaur, Amit Sain, Dipankar Sarkar, and Rajat Mangalmurti Ninawe.
- "Enhancing Stability and Adjustability through a Novel Support and Loading System for Bamboo Bending Test" is the title of a patent application. The application, registered with the number 202311046078, was submitted on 24 July 2023, to the Patent Office, Government of India. It involves collaborative efforts by Dr. Arun Gaur, Amit Sain, Jagdish Lohar, and Prakash Somani.
- Dr. Arun Gaur, Associate Professor, was awarded the prestigious 'Creative and Innovative Solutions in Civil Engineering Award (CISCE)' in 2023 as a recognition of his contributions to the field.



- Dr. Nivedita Kaul, Associate Professor, conducted a Seminar in hybrid mode on 'Introduction to the Environmental Marketplace' on 11 May 2023. It was organized in association with Environmental Management and Assessment (IEMA), UK. The event's objective was to explain the opportunities available in environmental engineering to the various postgraduate students. Experts from academia, industry specialists, and distinguished entrepreneurs provided wonderful insight to the students regarding critical skills, resources, specializations available, and career guidance.
- 'World Environment Day' was celebrated in MNIT Jaipur from 2 to 5 June 2023. Dr. Nivedita Kaul was the convenor for managing and supervising various events organized under this initiative. World Environment Day was celebrated to foster students' creativity and educate them about sustainability, environmental protection, and climate change related issues. Dr. Nivedita Kaul also spearheaded an interactive session on 'Applications of Research Projects for the Benefit of Society and Environment', in association with the Green Committee, MNIT Jaipur.



## Department of Computer Science and Engineering

- Dr. Mushtaq Ahmed was invited to deliver a "Cloud Computing and Security" talk in a Faculty Development Programme on "Intelligent Computing and Communications" held from 8 to 13 April 2023, at Banasthali Vidyapith, Rajasthan. The Department of Science and Technology (DST), Govt. of India fully supported the programme under the Consolidation of University Research for Innovation and Excellence in Women (CURIE) scheme.
- Dr. Mushtaq Ahmed, Associate Professor, presented a research paper titled 'An Optimized Fuzzy-Based Load Balancing in Cloud Computing' at the 'International Conference on Recent Advances in Electrical Electronics and Digital Healthcare Technologies 2023' (REEDCON2023), conducted from 1 to 3 May 2023, in New Delhi.
- Dr. Mushtaq Ahmed presented a research paper titled 'Cemetery Allocation Management System Using Ethereum Blockchain' at the 4th International Conference on Data Science and Applications (ICDSA 2023), conducted from 14 to 15 July 2023.

## Department of Electrical Engineering

- Dr. Satish Sharma, Assistant Professor, presented a paper on "Privacy Protection and Cost of Privacy in Smart Grid" at IEEE International Conference on Computer, Electronics & Electrical Engineering and their Applications, organized by NIT Uttarakhand from 8 to 9 June 2023.
- Dr. Saravana Prakash P. is working on a project that focuses on designing and developing a highly reliable SiC/GaN based power supply unit for a space mission. This innovative project is funded by ISRO Regional Academic Centre for Space (ISRO RAC-S) with a grant of Rs. 1 lakh. It is expected to continue until the end of 2023.
- Dr. Man Mohan Garg, Assistant Professor supervised an internship programme that gave students hands-on training in modeling, simulation and hardware development of DC-DC Converter Circuits. The internship was held from 19 June to 31 July 2023. Five students who are currently pursuing a degree in Electrical Engineering from other universities/institutions were provided with the internship. The participants enthusiastically devoted their time gaining knowledge of power electronic circuits and explored hands-on laboratory experience during the internship. It was funded by Science and Engineering Research Board, New Delhi (SERB) with a grant of Rs 1.5 lakh.



- Dr. Man Mohan Garg organized a workshop, 'Karyashala,' from 5 to 11 July 2023, which centered on modeling, simulation, and hands-on practice on control of power electronics converters for green energy applications. Twenty-five students from various academic institutions in India participated and learnt from various experts from IITs, other NITs including MNIT. The participants enthusiastically learnt about state-of-the-art power electronic technologies and practiced on hardware prototype development and controller implementation for power electronic converters in real time. The workshop was intended to support regular Ph.D., PG, and UG fourth-year level students with a strong motivation towards engineering research who are pursuing their degrees from universities/institutions within India in fields related to Electrical Engineering and have an interest in design and control aspects of power electronic converters and their applications. SERB funded this workshop with a grant of Rs. 5 lakh.
- Dr. Hemant Kumar Meena is leading a project that focuses on the development of silicon proven IP Cores, Transceiver IC and System Prototype for mmWave Radar Sensing in Healthcare and Security Applications. This ambitious project is funded by the Ministry of Electronics and Information Technology (MeitY), Govt. of India, New Delhi, and is granted an amount of Rs. 288 lakh. The project is expected to continue until 2028.

## **Department of Electronics and Communication Engineering**

- Dr. Amit Mahesh Joshi is leading the project "Onboard Spectral Preprocessing for Multispectral Image Compression using FPGA". The project is funded by ISRO with Rs. 18.62 lakh from 2023 to 2025.
- Dr. Ritu Sharma is the head of the project "Design, Fabrication, and Performance Evaluation of Flexible Piezoelectric Biomechanical Energy Harvester," which is supported by SERB-Power Grant with Rs. 59.97 lakh for the duration of 2022 to 2025.
- Dr. Bharat Choudhary, Assistant Professor, along with Dr. Hemant Kumar Meena, Department of Electrical Engineering, MNIT Jaipur, secured a significant fund of Rs. 2.88 Crore from MeitY's Chips to Startup (C2S) Programme. Collaborating with IIIT Hyderabad and AMU Aligarh, their project targets mmWave Radar Sensing advancements, impacting Healthcare, Security, and Automotive sectors. The grant, awarded in June, will develop IP Cores, Transceiver ICs, and prototypes, enhancing India's technological standing.
- Dr. Kuldeep Singh is overseeing the project "Development of Techniques for Data Traffic-Based Analysis of Smart Systems", funded by DRDO under the Ministry of Defence, Government of India. The project is valued at Rs. 103.49 lakh and will run from 2023 to 2025.



- Dr. Satyasai Jagannath Nanda, Assistant Professor, received the "SCO Nations Young Scientist Award" in the fields of Artificial Intelligence, Big Data Research and Applications at the Second SCO Nations Young Scientist Conclave held at the Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR) from 6 to 10 February 2023.
- Dr. Satyasai Jagannath Nanda presented a paper titled "A Chaotic Sailfish Optimizer for Accurate DOA Estimation in Automotive Radar" at the 2nd International Conference on Microwave, Optical and Communication Engineering (ICMOCE-2023) held from 26 to 28 May 2023 at the School of Electrical Sciences, IIT Bhubaneswar.
- The 4th International Conference on Data Science and Applications (ICDSA 2023) was organized by the Department at MNIT Jaipur from 14 to 15 July 2023. The event was conducted in hybrid mode in collaboration with the Soft Computing Research Society (SCRS), New Delhi. It gathered leading academicians, scientists, researchers, scholars, and students from around the world. 167 papers were presented across 31 technical sessions and 4 keynote talks were delivered. The conference focused on diverse aspects, including Models and Algorithms, Signal and Image Processing, Data Science, and Data Analytics in Communication.

- Dr. Satyasai Jagannath Nanda presented a paper on "A modified self-organizing map with mean-shift clustering for seismicity analysis of earthquake catalogs" at the 4th International Conference on Data Science and Applications (ICDSA 2023) organized by MNIT Jaipur from 14 to 15 July 2023.

### **Department of Humanities and Social Sciences**

- In collaboration with NITTTR Chandigarh, the Department organized a five-day AICTE-recognized FDP on 'Life Skills Management' from 17 to 21 April 2023. It included sessions on various life skills such as communication, time management, stress management, decision-making, and problem-solving. The Coordinators of the FDP were Dr. Preeti Bhatt and Dr. Nidhi Bansal from MNIT Jaipur and Dr. P.K. Singla from NITTTR Chandigarh, while the FDP was convened by Dr. Dipti Sharma, HOD.





- The twenty-second session of HUM PALS was conducted on 8 May 2023. The invited resource persons for the session were Dr. Rimika Singhvi, Professor & Head, Dept. of English, IIS (deemed to be University), and Dr. Gunja Patni, Assistant Professor, Amity School of Languages, Amity University Jaipur, Rajasthan. They discussed their recent book, 'Female Subjectivity in Narrating the Body'.

- Dr. Nidhi Bansal presented two papers with her research scholars at the XX ISA World Congress of Sociology, organized by the International Sociological Association at Melbourne, held in Australia in an online mode from 25 June to 1 July 2023. Her papers were titled "Relation Between Leisure and Social Activities Participation and Perceived Life Satisfaction Among the Elderly-Evidences From Longitudinal Ageing Study in India, Wave-1" with Jagatpal Singh and "Investigating Outcomes of Internet Use Among Older Adults in India" with Heena Choudhary.



- The Department celebrated World Environment Day on 5 June 2023. The event included a video presentation where scholars and faculty members shared their contributions to environmental preservation, followed by a discussion on ground-level measures to save the environment.

Faculty, research scholars, and staff attended the event, culminating in a symbolic plantation and a pledge for active environmental contribution.



- Dr. Nidhi Bansal presented a paper titled "Tangible Outcomes of Internet Use: An Impact Evaluation of a Digital Literacy Training Programme in India" with her research scholar, Heena Choudhary, at the conference on Inhabiting the Planet: Challenges for Media, Communication and Beyond, IAMCR OCP 2023 by International Association for Media and Communication Research, held in France in an online mode from 26 June to 5 July 2023.
- Dr. Preeti Bhatt, along with her research scholar Saloni Kumari, presented a paper titled "From Text to Film: A Comparative Study of the Novels When Hitler Stole Pink Rabbit (1971) and Caging Skies (2008) and Their Film Adaptations" at the Holocaust in 21st-Century Children's, Young Adult and Adult Literature: New Comparative Perspectives Antwerp & Mechelen (Belgium), held from 27 to 29 June 2023.
- Dr. Preeti Bhatt and her research scholar Saloni Kumari presented a paper titled "The Interface of Memory and History: A



Comparative Study of the Film Adaptations when Hitler Stole Pink Rabbit (2019) and Jojo Rabbit (2019)” at the 3rd International Conference on Contemporary Perspectives in English Language, Literature & Cultural Studies, held from 14 to 15 July 2023.

### **Department of Management Studies**

- A short-term Management Development Programme on ‘Sustainability Reporting’ was organized by the department from 27 April to 29 May 2023, in collaboration with the Centre for Business and Social Research. The programme coordinator was Dr. Ritika Mahajan, Assistant Professor, DMS. The programme helped to train managers, practitioners, and consultants in the realm of sustainability reporting. Experts and leaders in sustainability reporting facilitated interactive sessions, workshops, and case studies, providing valuable insights and practical strategies to integrate sustainability principles seamlessly into business practices.



- With an objective to explore and examine the outcomes of digital adoption and digital empowerment in Rajasthan's education and healthcare sectors, Dr. Aakanksha Kataria, Assistant Professor, DMS, was awarded a monetary grant by ICSSR for her innovative project, 'The Transformative Potential of Digital Adoption for Health and Education: A Mixed Methods Research in Rajasthan'. Rs. 12 Lakh has been provided for the duration of 2023–2025. The project aims to increase the penetration and effectiveness of the Government's schemes toward Digital adoption in Rajasthan's healthcare and education sectors.





## **Department of Mathematics**

- In collaboration with the MTF, Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat, the Department conducted an International Workshop on 'Computing Special Functions and their Applications' from 24 May to 30 June 2023. The workshop mainly focused on the concept of special functions and their related applications.
- Dr. Ritu Agarwal was honoured by the Organization for Women in Science for the Developing World (OWSD), a unit of UNESCO, for being a "Full member for Research". She was also awarded the "Young Researcher Award" for the second Global Conference on "Emerging Trends in Research and Development" by the International Journal of Innovative Research & Growth (IJIRG) and Jaipur National University.
- Dr. Geetanjali Chattopadhyay is awarded the SERB International Research Experience (SIRE) Fellowship by DST for her extensive overseas research exposure in her field for the year 2023-24. The fellowship has been approved for a duration of 6 months with Christian Ruyer-Quil at Laboratoire d'Optimisation, LOCIE, Université De Savoie Mont-Blanc, France.
- The Placement Club of the Department of Mathematics organized "The Placement Diaries Chapter 4". MNIT alumni Vaibhav, Technical Project manager at Genpact and Anubhuti Mittal,

Technical Consultant at Genpact, interacted with the PG students regarding career opportunities in IT sector and training .

## **Department of Mechanical Engineering**

- Dr. Naresh Kumar Raghuwanshi was honoured with the "Best Paper Award" by NIT Warangal for his paper publication in the ICMech-REC which was held from 23 to 25 June 2023.
- The International Conference on Mathematical, Engineering, and Management Sciences was organized by MNIT Jaipur in collaboration with IIIT Kota and NIT Patna online from 21 to 22 May 2023. Several research papers were presented at the conference that primarily focused on topics related to mechanical engineering.
- Dr. Harlal Singh Mali filed a patent to the United States Patent and Trademark Office (USPTO) on 18 July 2023, titled "Orthosis for Clubfoot (CTEV) Correction and Maintenance based on PONSITI Method ", with the Reg. No: 18272822.
- The Department conducted A National Short-Term Course on 'Data Driven Analytics with Machine Learning' from 12 to 16 June 2023.



- Dr. Amar Patnaik is working on a project that mainly focuses on developing an ultra-high sub-micron level measurement facility for coefficient of thermal expansion in dimensional stable composite structures. This project is funded by the ISRO Regional Academic Centre for Space (ISRO RAC-S) with a grant of Rs. 20 lakh, and is expected to continue from 2023 to 2025.
- Dr. M. L. Meena is leading a project that centres on measuring musculoskeletal disorders among carpet weavers and ergonomic intervention of carpet weaving hand tools. This innovative project is being funded by the SERB and DST, New Delhi, and has been granted an amount of Rs. 46.69 lakh. This project is expected to continue from 2023 to 2026.
- A total of 46 companies offered 110 placement offers to undergraduate (UG) students studying B.Tech. in Mechanical Engineering. Reliance Industries Limited made the most offers, followed by other companies like BPCL, Deloitte, and Accenture. The placement statistics of postgraduate students in the Department of Mechanical Engineering also stand out as impressive, as a total of 47 offers were made by the 18 companies that visited the campus during placement, out of which the highest CTC was offered by Mercedes Benz with an amount of 15 LPA.
- Dr. Amar Patnaik has begun working on an innovative project that focuses on designing and demonstrating empty and foam-filled Honeycomb Structures for Energy Absorption during Crash/Impact. This project has been granted an amount of Rs. 17.90 lakh by ISRO Regional Academic Centre for Space (ISRO RAC-S) and is expected to continue from 2023 to 2025.
- Dr. Amar Patnaik has also been working on a parallel project that approaches the idea for the development and characterization of high-temperature wear and corrosion resistant high entropy alloy (HEA) for airborne parts and turbine engine blade. This enterprising project has been granted an amount of Rs. 48 lakh by the SPARC-MHRD, Government of India. The project began in 2023 and is expected to finish by 2025.
- Dr. Rajeev Agrawal is working on a project involving the development of Artificial Intelligence enabled sustainable health-care waste management system in India. The success of this project will ensure a more efficient health-care related waste management system in India. This project is being funded by the Indian Council of Social Science Research (ICSSR) and has been granted an amount of Rs. 12 lakh. This project is expected to continue from 2023 to 2025.



## **Department of Metallurgical and Materials Engineering**

- Dr. Kunal Borse, Ishwar Sharma, Gaurav Kumawat filed a patent titled “Method and Apparatus for Simultaneous Dip Coating on Multiple Substrates” with Registration Number: 202311027556 at the Patent Office in India on 13 April 2023.
- Dr. Swati Sharma, Atirek Gaur, Rahul Kumar, Satish Indupuri, Dr. Upender Pandel, and Dr. Anup Kumar Keshri submitted a patent for “Development of Robust Super-Hydrophobic Plasma Sprayed High Entropy Alloy Coating”, with Registration Number: 202311035693 at the Delhi Patent Office on 23 May 2023.
- Dr. Kunal Borse, Assistant Professor, received funding of Rs 0.81 Lac from RAC-S ISRO for the period 2023-2024 for his research project "Development of a novel method for the synthesis of printable CIGS ink for solar photovoltaic application".
- Dr. Rajendra Kumar Goyal received funding of Rs 0.96 Lac from ISRO for his project titled "Additive Manufacturing of Carbon Fibers/Rice Husk Ash Reinforced Polymer Nanocomposites for Aerospace Heat Sink" for the year 2023.
- Dr. Rajesh Kumar Rai, Assistant Professor, received a grant of Rs 24.83 lakh from RAC-S ISRO for his project "Development of AlCoCrFeNiTi high entropy alloy for high-temperature aerospace applications" for the period 2023-2025.
- Dr. Kunal Borse received a grant from INUP-i2i, IIT Delhi, for his project titled “Synthesis and characterization of CZTSe thin film deposited by electroless plating method for solar cell applications” for the year 2023.
- A one-day Workshop on "Non Destructive Techniques and Applications" was organized on 27 July 2023 in association with the IIM Jaipur Chapter. Experts from the industry, like M/s Blue Star Engineering & Electronics Limited and M/s Evident, conducted the workshop.
- Shri Ravi Kumar Varma, Senior Scientist, SAC, ISRO, Ahmedabad, delivered an expert lecture on “Space and Aerospace Materials - Present Trends and Future Prospective” on 27 May 2023.
- Mr. Ashutosh Mishra, Wing Commander, Indian Air Force, visited the department and delivered a talk on “Aero Engine Materials Technology” on 26 June 2023.
- Dr. Santosh S. Hosmani, Associate Professor, IIT Indore, visited the department and delivered a talk on “Surface Engineering of Alloys” on 26 June 2023.

## **Department of Physics**

- Dr. Kamalendra Awasthi was awarded the prestigious “Brain Pool Fellowship (Invited Scientist)” by the National Research Foundation of Korea.



- Prof. Kanupriya Sachdev is working on a project focusing on the “Performance exploration of LTMO and vertically aligned MWCNT on graphene material for efficient and sustainable Na-Ion batteries”. Her team received funding of Rs. 25 lakh from the Indian Space Research Organization (ISRO) for this ambitious project that is expected to continue from 2023 to 2026.
- The Department recorded 14 placements for M.Sc Physics students in the Academic Year 2022-23. Aakash Institute and Allen Institute gave the highest offers to the students, followed by other companies, including Physics Wallah and MIET.



### **Materials Research Centre**

- Prof. G.H.S. Prasad, Director, NIFT, Jodhpur visited the Materials Research Center at MNIT Jaipur on 16 May 2023.
- Prof. R. N. Mukherjee, Department of Chemistry, IIT Kanpur, visited Materials Research Center on 23 June 2023.
- Dr. Aakansha Kalra, Assistant Professor, B. Lal Institute of Biotechnology, Jaipur, along with 20 students from the institute, visited MRC at MNIT Jaipur on 30 June 2023.

### **National Centre for Disaster Mitigation and Management**

- Gajendra Singh Shekhawat, Minister of Jal Shakti, Government of India, visited the centre on 22 May 2023. He interacted with the faculty and staff members of the centre and appreciated their contributions in the field of disaster management and mitigation.

### **MNIT Innovation and Incubation Centre**

- Dr. Ajay Kumar, former Defence Secretary, Government of India, visited MIIC on 6 May 2023. He interacted with students and motivated them to lead in innovation and utilize the opportunities provided at the centre. Dr. Monica Sharma, Associate Dean Incubation, briefed the eminent guest about the incubated start-ups.

# Events

Celebrations at



# '23

## MNIT Jaipur





## CAMPUS BUZZ

- The 16th Convocation of MNIT Jaipur was held on 12 April 2023 in the presence of the Chief Guest of the occasion, Honorable Speaker of the 17th Lok Sabha, Shri Om Birla. The Institute conferred 1452 degrees in total, 727 of which were undergraduate degrees, 582 master's degrees, and 143 Doctoral degrees, the highest number of doctoral degrees awarded in any convocation held at the institute. Of all the degrees awarded, 381 were awarded to female students. The female students outshined the male students, as 19 female students received gold medals, marking a significant achievement in women empowerment. Consequently, 8 UG students and 29 PG students of the academic year 2021-22 received gold medals for securing the first position in their respective academic programmes. The director of MNIT Jaipur, Prof. N. P. Padhy, and the other dignitaries congratulated all the graduates and wished them luck in their future endeavors.



- In light of India's celebration of 2023 as 'International Year of Millets' on 13 April 2023, MNIT Jaipur hosted an informative session by Tanu Shree Singh, Founder and CEO of Bazic Food Studio. The session aimed to raise awareness about the health benefits of millets and their role in improving physical and mental well-being. The session also debunked myths related to food labels and was concluded with a quiz and a sampling of millet delicacies.





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- An online workshop on "SEG Proposal - How to Write' was organized on 3 May 2023. Dr. Namita Mittal and Prof. Vivek Kumar shared insights on the significance of the SEG proposal, its structure, and its pitfalls. Over 20 attendees participated in the workshop, including faculty coordinators from premier educational institutes in Jaipur like St. Xavier's College Jaipur, ICEAI University Jaipur, and others.

- MNIT Jaipur hosted Prof. V Ramgopal Rao, VC of BITS Pilani for an invited lecture on "Research to Innovation: Bridging the Gap in Indian Higher Educational Institutes" under the aegis of the Institute Lecture Series on 31 May 2023. Prof. Rao boasts of an illustrious career, serving at institutes of repute in multifarious capacities. At the outset, Prof. M.L. Mittal introduced the speaker, elaborating on his key contributions. The programme commenced with the Director of MNIT Jaipur, Prof. N. P. Padhy, welcoming the acclaimed guest speaker. Prof. Rao spoke at length on the selection of the research topic, which should not originate from the library but from the practical problems people face. He stressed on the better connection between industry and academia, which will set new benchmarks for every institution.

Group Photo





- MNIT Jaipur signed a Memorandum of Understanding (MoU) with Infosys Ltd. on 3 May 2023 to leverage the Infosys Springboard platform to benefit UG, PG, and MBA students, providing them access to various courses. The platform has over twelve thousand courses and over one hundred sixty-five thousand learning resources across various fields and topics. The platform also offers internship opportunities and certifications to help improve students' employability. The MoU shall be effective for a period of five years.
- A newly constructed 'Indoor Badminton Complex' was inaugurated in MNIT Jaipur campus by the chief guest of the event, Former Defense Secretary, Govt. of India, Ajay Kumar, and Director of MNIT Jaipur, Prof. N. P. Padhy, on 7 May 2023. For the construction of the complex, financial assistance of Rs. 65 Lakh has been provided by the alumni of the 1990-1994 batch of MNIT Jaipur. The complex boasts state-of-the-art facilities and modern amenities, including four turf badminton courts to cater to the young students and players working towards success in sports. On this occasion, the alumni of the 1990-1994 batch were also felicitated by the institute for their gracious contributions to their alma mater.
- A 'National Stakeholder Workshop' was organized in MNIT Jaipur, in association with IIT Palakad Technology IHub Foundation and IIT Roorkee, from 8 to 9 May 2023. The aim of the workshop was to bring together Industry and Academia to work on National Clean Energy Goals. DST, Bureau of Energy Efficiency, and to address the challenges in achieving the National target of 500 GW of renewable capacity by 2030. Renowned figures like A. Seshadri Shekhar, Dr. Rangan Banerjee, and Dr. Anita Gupta focused on Green Energy and discussed regulatory development. The event delved into power system challenges, with cultural performances concluding the programme.
- MNIT Jaipur signed a national Memorandum of Understanding (MoU) with IIT Delhi for the exchange of Students and Faculty for Academic and Research Work on 8 May 2023. During the ceremony, MNIT Jaipur was represented by Director, Prof. N.P. Padhy, and IIT Delhi was represented by Director, Prof. Rangan Banerjee. The MoU shall be effective for a period of five years.
- MNIT Jaipur signed a national Memorandum of Understanding (MoU) with IIT Roorkee for Academic and Research Work on 9 May 2023. During the ceremony, MNIT Jaipur was represented by Director, Prof. N.P. Padhy, and IIT Roorkee was represented by Director, Prof. Kamal Kishore Pant. The MoU shall be effective for a period of three years.





- MNIT Jaipur signed a Memorandum of Understanding (MoU) with the NIFT Jodhpur for the exchange of students and faculty members for Academic and Research Work on 16 May 2023. During the ceremony, MNIT Jaipur was represented by Director, Prof. N.P. Padhy, and NIFT Jodhpur was represented by Director, Prof. G. H. S. Prasad. The MoU shall be effective for a period of three years.
- The Ministry of Jal Shakti, Government of India, has recognized the National Centre for Disaster Mitigation and Management of MNIT Jaipur as the National Center for Earthquake Safety of Dams and has approved a financial grant of about Rs. 30 crore for establishing and running the Center for five years. To give impetus to this mission of dam safety in the country, a Memorandum of Understanding has been signed between the National Dam Safety Authority (Ministry of Jal Shakti, Government of India) and MNIT Jaipur on 22 May 2023 in the presence of Union Minister of Jal Shakti, Gajendra Singh Shekhawat. He briefed about the vision of the NDSA towards dam safety and maintenance. Prof. N. P. Padhy, Director, MNIT Jaipur, also addressed the gathering. Shri Kushvinder Vohra, Chairman Central Water Commission, Sanjay Kumar Sibal, Chairman NDSA, Ms. Richa Misra, Member (Adm. & Finance), NDSA, JS&FA, Ministry of Jal Shakti, and Prof. Gunwant Sharma, Dean (R&C), MNIT Jaipur, along with several officers from the ministry and professors of the institute, were also present in the ceremony.



- 'World Bicycle Day', observed internationally on 3 June, received a fitting celebration at MNIT Jaipur. The institute organized a Cycle Rally on the campus, in accordance with the Ministry of Education's guidance, to promote cycling benefits and sustainable transportation. The rally witnessed participation from nearly 300 individuals, including students, faculty members, staff, and their families. The rally covered a distance of approximately 3 kilometers across the campus, emphasizing the importance of bicycles as a mode of transport.
- MNIT Jaipur celebrated World Environment Day with fervour and enthusiasm by organizing a 'Poster Making Competition' on 5 June 2023. The competition, aligned with the Ministry of Education's directives, revolved around the theme 'Mission Lifestyle for Environment (LiFE)'. The aim was to raise awareness among schoolchildren about an environment-friendly lifestyle and foster creativity and concern for environmental conservation. The mission LiFE advocates individual and collective actions to safeguard the environment, conserve water, reduce waste, and avoid single-use plastics.



- MNIT Jaipur signed a Memorandum of Understanding (MoU) with NIT Warangal for academic and research collaboration, exchange of students, staff, and faculty members, and joint academic and scientific activities on 13 June 2023. During the event, MNIT Jaipur was represented by Director, Prof. N.P. Padhy, and NIT Warangal was represented by Director, Prof. B. Subudhi. This MoU shall be effective for a period of three years.



- MNIT Jaipur signed a Memorandum of Understanding (MoU) with Motilal Nehru National Institute of Technology, Allahabad, for academic and research collaboration, exchange of students, staff, and faculty members, and joint academic and scientific activities on 13 June 2023. During the ceremony, MNIT Jaipur was represented by Director, Prof. N.P. Padhy, and MNNIT, Allahabad was represented by Director, Prof. R.S. Verma. The MoU shall be effective for a period of three years.



- MNIT Jaipur signed a Memorandum of Understanding (MoU) with the National Institute of Technology Jamshedpur for academic and research collaboration, exchange of staff, faculty members, joint academic and scientific activities on 13 June 2023. During the event, MNIT Jaipur was represented by Director, Prof. N.P. Padhy, and NIT Jamshedpur was represented by Director, Prof. G. Sutradhar. The MoU shall be effective for a period of three years.

- MNIT Jaipur organized a two-day workshop on 'India@2047 and NIT's-Leadership for Academicians Programme' (N-LEAP) in collaboration with NIT Uttarakhand under the aegis of the Ministry of Education on 13 and 14 June 2023. On the second day of the Workshop on N-LEAP, Prof. Lalit Kumar Awasthi, Director NIT Uttarakhand, Prof. Mahesh Chandra Govil, Director NIT Sikkim, Prof. Bidyadhar Subudhi, Director NIT Warangal, Prof. Rama Shanker Verma, Director MNNIT Allahabad, and Prof. Gautam Sutradhar, Director NIT Jamshedpur, deliberated upon various aspects of NIT system and possible policies towards its betterment.



- MNIT Jaipur organized a spectacular programme to celebrate 'International Yoga Day' on 21 June 2023. The event saw the remarkable participation of over 500 attendees, including students, teachers, and institute staff members. The participants also included students and representatives from villages adopted under the Unnat Bharat Abhiyan, students from local schools, and village communities. The Director MNIT Jaipur, Prof. N. P. Padhy, emphasized the importance of regular yoga practice in promoting a balanced and healthy lifestyle.



- The prestigious 'INSPIRE Awards - MANAK' two-day mentoring workshop was organized on 22 and 23 June 2023, under the INSPIRE scheme, in MNIT Innovation and Incubation Centre, MNIT Jaipur campus. The workshop, spearheaded by the Department of Science and Technology, Govt. of India, in collaboration with the National Innovation Foundation, India (NIF), aimed to inspire and motivate students aged 10-15 years studying in classes 6 to 10. The distinguished Chief Guest, Prof. Gunwant Sharma, Dean of Research and Consultancy, MNIT Jaipur, and Guest of Honour, Mr. Dhanpat Raj Dhariwal, graced the occasion.



- A press conference was organized on 25 July 2023 by MNIT Jaipur, in coordination with the PIB Jaipur office, to mark the completion of 3 years of the implementation of National Education Policy (NEP) 2020 and to update the stakeholders about the achievements and success of NEP 2020.





- MNIT Jaipur felt privileged to host the Hon'ble Vice President of India, Shri Jagdeep Dhankhar, in 'Educationist Interaction Meet: NEP 2020' event organized at MNIT Jaipur on 23 June 2023. Vice President made two significant announcements for MNIT Jaipur: (i) The Indian Council of World Affairs will establish a memorandum of understanding (MoU) with MNIT Jaipur for the betterment of the MNIT community (ii) a delegation of faculty members and students will be invited to visit the newly built Parliament House for exposure to the magnificent creation. Shri Dhankhar also inaugurated an exhibition of evocative photographs of the year-long Ministry of Education Flagship Programmes organized by MNIT Jaipur.



- MNIT Jaipur signed a Memorandum of Understanding (MoU) with National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh on 24 July 2023 for Academic and Research Work, exchange of students, staff, and faculty members, and organizing joint training, conferences, workshops, and seminars. The MoU was signed in the presence of Prof. N.P. Padhy, Director, MNIT Jaipur, Prof. Maitreyee Dutta, Dean, Academics and R & D, NITTTR Chandigarh, Prof. Rakesh Jain, Dean, International and Alumni Affairs, Prof. Kailash Singh, Dean, Faculty Affairs, and Dr. Madhu Agarwal, Associate Dean, National and International Affairs, MNIT Jaipur. The MoU shall be effective for a period of five years.



- An Orientation Programme was conducted by the Alumni Committee (ALCOM) on 27 July 2023 for the newly joined students in ALCOM and aspiring students who wish to be a part of the committee. The programme was conducted in the presence of Prof. Rakesh Jain, Dean, International and Alumni Affairs, Dr. Madhu Agarwal, Associate Dean, National and International Affairs, Dr. Nand Kumar, Associate Dean, Alumni Affairs, Dr. Pawan Kalla, Associate Dean (Civil), and Saurabh Devnani, Alumni, MNIT Jaipur.



- The Art of Living Faculty Development Programme (FDP) was organised at MNIT from 26 to 28 July 2023. The programme was aimed at blending antiquity with contemporary knowledge, featuring interactive intellectual exchanges, ancient wisdom, practical tools, and techniques like breathwork and meditation. The highlight of the programme was the profound breathing technique, Sudarshan Kriya (SKY). Focused on holistic well-being, the programme left a lasting impact on the participants. The attendees reported a feeling of calmness, relaxation, and refreshed mind, while also experiencing a sense of belongingness and positivity in their lives. They acknowledged that incorporating these techniques into their lifestyle would enhance their overall quality of living.



- Akhil Bhartiya Shiksha Samagam (ABSS) 2023, jointly organized by the Ministry of Education and the Ministry of Skill Development & Entrepreneurship, took place on 29 and 30 July 2023 at ITPO Pragati Maidan, New Delhi. Prime Minister Narendra Modi inaugurated the event on 29 July 2023.

- The 'Samagam' aligns with the third anniversary of the National Education Policy (NEP) 2020. MNIT Jaipur also participated in the event, showcasing the achievements of the institute and the culture of Rajasthan. The programme provided a platform for academicians, sector experts, policymakers, industry representatives, teachers, and students from schools, higher education, and skilling institutions to share their insights, success stories, and best practices in implementing NEP 2020 and carve strategies for taking it further. The ABSS included 16 sessions, in which discussions were held on themes including Access to Quality Education and Governance, Equitable and Inclusive Education, Issues of Socio-Economically Disadvantaged Group, National Institute Ranking Framework, Indian knowledge System, Internationalization of Education. Prof. N. P. Padhy, along with faculty members and scholars, led the exhibition of MNIT Jaipur at the event. The participation of MNIT Jaipur was well received in providing exemplary higher and technical education in Rajasthan.





- A Memorandum of Understanding (MoU) signing ceremony was also held during the anniversary celebration of the NEP 2020 at ABSS 2023 scheduled on 29 July 2023 in New Delhi, where multiple MoUs were signed by the institute:

MNIT Jaipur signed an MOU with IIT, Jodhpur, to deepen the collaboration in academic and research work. The MoU shall be effective for a period of three years.

- MNIT Jaipur signed an MoU with National Institute of Technology, Calicut, to promote academic and research work. The MoU shall be effective for a period of three years.



- MNIT Jaipur has been selected as the Nodal Institute for coordinating exposure tours of youth from Rajasthan to IIT Bhubaneswar, Odisha, and vice versa under the Yuva Sangam Phase II programme. The tours were scheduled from 10 April to 15 May 2023.

- As part of Ek Bharat Shreshtha Bharat - Yuva Sangam Phase 2 programme, a delegation of 45 students from Rajasthan departed for IIT Bhubaneswar, Odisha. This government initiative focuses on cultural and educational exchange between the two states. Director MNIT Jaipur, Prof. Narayana Prasad Padhy, flagged off the delegation. On the concluding day, MNIT Jaipur bid farewell to Odisha students who participated in the Yuva Sangam programme. The cultural event featured a Ghoomar and a Sambalpuri dance, showcasing the states' rich culture.



### Unnat Bharat Abhiyan

- MNIT Jaipur organized a five-day "Computer Skill Development Training Programme" from 18 to 22 July 2023 for the youth of the five adopted villages under UBA. In this training programme, experts covered various topics like Microsoft Word, Excel, PowerPoint, DG Locker, cyber security, online forms, net banking, and online ticket booking etc. The participants also visited the library, workshops, laboratories, and the computer center of MNIT along with Rajasthan International Centre Jhalana, Akshaya Patra, Jawahar Circle, JKK, Smriti Kulish, etc.



- To celebrate 'World Environment Day', a poster competition was organised on 3 June 2023. The event aimed to spread awareness about environmental concerns and foster creativity. The winners were chosen for their exceptional artwork and dedication to promoting environmental preservation.



- A webinar titled 'Lifestyle for Environment - Living Udaهران' was conducted on 2 June 2023, with Professor and Dean, Vice President BITSAA, Dr. Natarajan B. R., as the guest speaker. Over 20 attendees, including faculty coordinators from ICFAI University Jaipur, NIIT University, and Banasthali Vidyapith, as well as RCI coordinators from different Indian states, took part in the session.

- Dr. Natarajan B. R. spoke about the importance of lifestyle, environment, and their ties to genetics. He shared strategies to reduce plastic usage and combat pollution, advocating sustainable practices. The event concluded with a pledge for a greener lifestyle.

### **MNIT Innovation and Incubation Centre**

- Dr. Anita Gupta, Head of Change and Clean Energy (C3E) Division, Department of Science and Technology, Govt. of India visited MNIT Innovation and Incubation Centre on 8 May 2023. Dr. Monica Sharma, Associate Dean Incubation, and Dr. Sanjay Gaur, Senior Operations Manager briefed the eminent guest about the work of incubated start-ups and the hand-holding support MIIC is offering to the startup ecosystem of Rajasthan.





- One of MNIT Innovation and Incubation Center's prominent Start-ups, Punto Corporation, was selected to participate in the 'National Technology Week' organized jointly by the Department of Science & Technology, Govt. of India, and the Technology Development Board, Govt. of India from 11 to 14 May 2023. The event was held at Pragati Maidan, New Delhi, and inaugurated by the Hon'ble Prime Minister, Narendra Modi. The participation at India's leading start-up and technology event gave a big boost to MIIC, MNIT Jaipur, and Rajasthan's Startup Ecosystem.

- MIIC, MNIT Jaipur's Start-up, Punto Corporation was selected among 'The Top 75 Start-Ups of the Nation' for a compendium published in an e-Book of the compendium, released during the commemoration of 'Azadi ka Amrit Mahotsav' celebrations, launched by Dr. Jitender Singh, Minister of Science and Technology, Govt. of India. Punto Corporation has created an electric purifier, SafeON- a life-saving patented product that prevents electric shock and hazards. It is currently incubated at the MNIT Innovation and Incubation Centre.

- The center organized an AMA Session on 19 April 2023 for FITT-IIT Delhi FCI Hackathon. The Hackathon aimed to bring participants together to solve supply chain and logistics management challenges pertaining to food grains. The event witnessed participation from start-ups, students, and researchers.

Dr. Saket Chattopadhyay, Senior Manager, FITT-IIT Delhi, and S.S. Porika, Assistant General Manager, FCI also answered questions and queries raised by the participants. The winning team received up to Rs. 10 lakh as a prototyping grant.



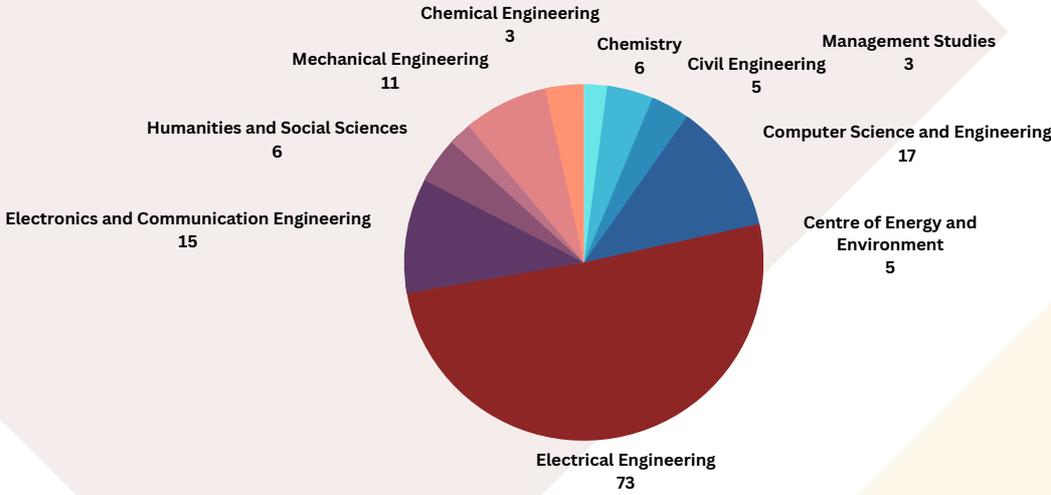
- 'Gomayya Parivar,' a start-up based in MIIC, MNIT Jaipur, was declared the winner of 'Startup Expo 2023' held at SKIT, Jaipur, on 18 April 2023. Gomayya Parivar works in the fields of sustainable development and environmental protection.

- A two day workshop titled 'Inspire Awards Maanak' was conducted by MIIC MNIT Jaipur from 21 to 22 June 2023. The aim of the workshop was to provide a platform to think about and implement innovative ideas. 37 school students across Rajasthan were selected to take part in this workshop. A total of 10 start-ups from Jaipur also took part in the workshop.

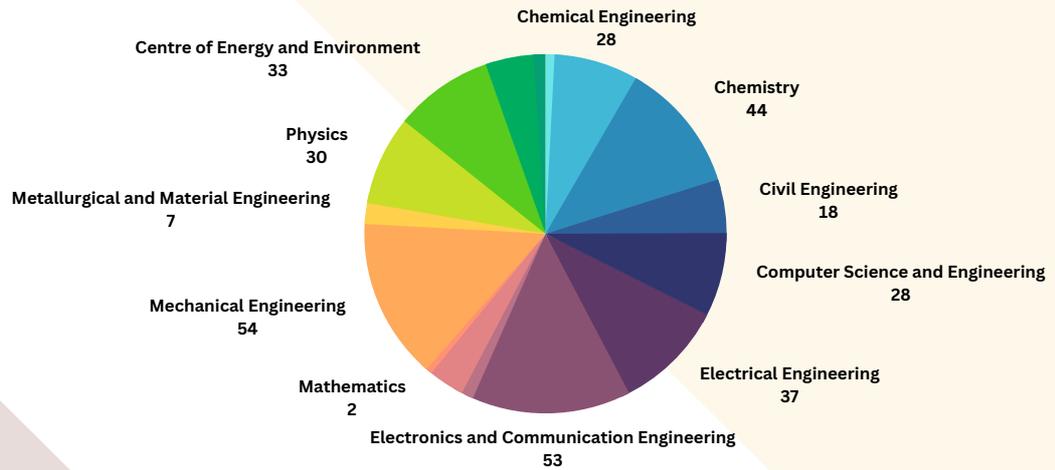


# RESERACH PUBLICATIONS\*

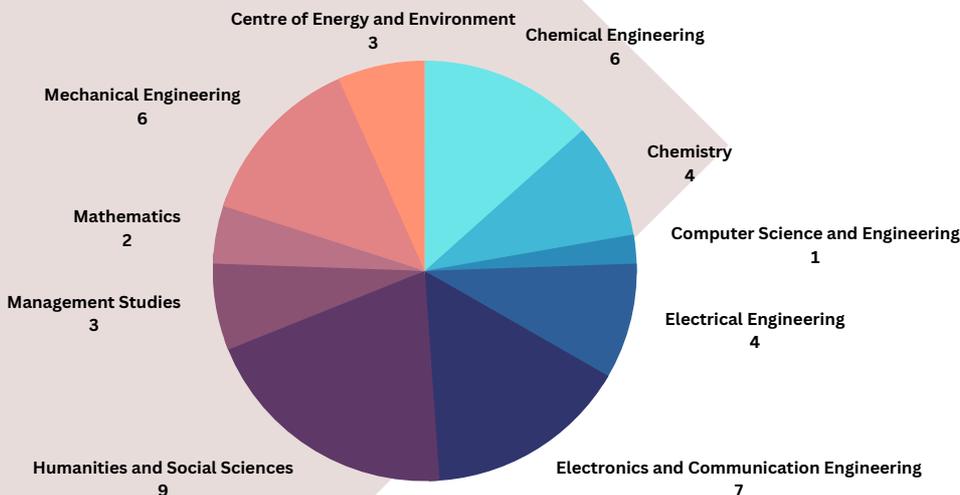
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# EDITORIAL TEAM



FRONT (Left to Right): Dr. Surajit Ghosh, Dr. Menka Yadav, Dr. Priyanka Harjule, Dr. Geetanjali Chattopadhyay, Dr. Niraja Saraswat, Dr. Aakanksha Kataria, Dr. Neetu Kumari

MIDDLE (Left to Right): Vikram Pallavur Kumar, Ojasvi Aggarwal, Anushka Yadav, Jatin Thakur, Dhairya Singh, Apeksha Pareek

BACK (Left to Right): Moordhan Songade, Pratham Tharwani, Pratyush Bhosekar, Dushyant K Paliwal, Subhrajit Roy, Ritik Garg, Akanksha Joshi.

## EDITORS

**Akanksha Joshi**

(PhD, Dept. of Management Studies)

**Ritik Garg**

(PhD, Dept. of HSS)

**Apeksha Pareek**

(PhD, Dept. of HSS)

**Dhairya Singh**

(B.Tech, V Sem, Dept. of ECE)

**Pratham Tharwani**

(B.Tech, V Sem, Dept. of CSE)

**Jatin Thakur**

(B.Tech, V Sem, Dept. of CSE)

**Anushka Ritesh Yadav**

(B.Tech, V Sem, Dept. of CSE)

**Ojasvi Aggarwal**

(B.Tech, III Sem, Dept. of ECE)

**Subhrajit Roy**

(B.Tech, III Sem, Dept. of CSE)

**Vikram Pallavur Kumar**

(B.Tech, III Sem, Dept. of CSE)

**Pratyush Bhosekar**

(B.Tech, III Sem, Dept. of CSE)

## DESIGNERS

**Moordhan Songade**

(B.Tech, V Sem, Dept. of CSE)

**Dushyant K Paliwal**

(B.Tech, V Sem, Dept. of ECE)

## FACULTY MEMBERS

**Dr. Niraja Saraswat**

(Assistant Professor, Dept. of HSS)

**Dr. Priyanka Harjule**

(Assistant Professor, Dept. of Mathematics)

**Dr. Menka Yadav**

(Assistant Professor, Dept. of ECE)

**Dr. Aakanksha Kataria**

(Assistant Professor, Dept. of Management Studies)

**Dr. Geetanjali Chattopadhyay**

(Assistant Professor, Dept. of Mathematics)

**Dr. Neetu Kumari**

(Assistant Professor, Dept. of Chemical Engineering)

**Dr. Surajit Ghosh**

(Assistant Professor, Dept. of Chemical Engineering)

DISCLAIMER: The information has been received from respective Departments/Centres/Website

Write to us on: [coordinator.newsletter@mnit.ac.in](mailto:coordinator.newsletter@mnit.ac.in)