

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



MNITJ NEWS

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FROM THE DIRECTOR'S DESK

Dear Readers,

I am pleased to introduce the present edition of the quarterly issue of the newsletter of MNIT. This newsletter serves as a testament to the vibrant spirit and collective achievements of our students, members of faculty, staff, and alumni. I am confident that with the gleam of twinkling light of Deepawali, our mind and spirit is enlightened and geared to contribute our share for the uplift of mankind.

With each passing edition, we strive to encapsulate the essence of MNIT, capturing the myriad of stories, innovations, and milestones that shape our academic landscape. This edition will showcase not only our academic achievements but also the cultural and extracurricular endeavours that make our campus a dynamic and enriching environment. Delve into the pages of this newsletter to find achievements and awards won by students and faculty members, successful research projects, cultural celebrations, and other contributions that represent building blocks in the foundation of our shared success.



The current edition also highlights the major developmental works and additions made to MNIT Jaipur by the administration to enhance the campus and upgrade the quality of education for the holistic development of students of MNIT.

I extend my gratitude to the editorial team, contributors, and everyone who have dedicated their time and effort to make this edition a reality.

Wishing you an insightful and enjoyable read!

Prof. N.P. Padhy
Director, MNIT



DEPARTMENT NEWS

Department of Chemical Engineering

- Dr. Neetu Kumari is leading a research project titled "Development of Novel Electrocatalyst for the Efficient Conversion of Biomass Derived Syngas to Electrical Power Using Solid Oxide Fuel Cell Technique". The project is supported by the Science and Engineering Research Board (SERB), Department of Science and Technology (DST), Government of India, from 2022 to 2025 with a grant of Rs. 57 lakh.
- Dr. V. Subbaramaiah, Assistant Professor, Department of Chemical Engineering, joined as a SIRE Fellow at Virginia Commonwealth University (VCU), Virginia, USA, in 2023. He has been affiliated with VCU for six months. SERB has funded the SIRE fellowship.

Department of Civil Engineering

- The Department organized an expert talk by Prof. Biswajeet Pradhan, University of Technology, Sydney, Australia, on 11 August 2023 under the guidance of Prof. Mahesh Kumar Jat. He guided the scholars and faculty members in writing research articles according to the editors' expectations of publishing them in a good journal.
- SCEM organized a plantation activity with the motto, "A greener MNIT, a cleaner MNIT" under the guidance of Prof. Mahender Chaudhary and Dr. Amit Kumar on 11 August 2023. The team planted 15 plants around the campus and took a pledge to help the Earth become a more habitable place to live in.



- SCEM organized Swachhata Pakhwada from 27 September to 1 October 2023. The event was a remarkable initiative demonstrating the commitment to cleanliness and environmental consciousness. The collective efforts of students and professors have improved the department's hygiene and contributed to the larger goal of a cleaner and greener India. This event serves as a reminder that cleanliness is an ongoing effort, and continuous efforts are required to make a lasting impact on our surroundings and society.



- On 6 September 2023, the department organized Industry Interaction, in which Mr. Manoj Gupta shared his valuable insights about civil engineering and a deeper understanding of its boundless opportunities. This event served as a stepping stone for aspiring engineers on their journey to an exciting and fulfilling future in civil engineering.



- An International Conference, “Creative and Innovative Solutions in Civil Engineering,” was organized by the Department on 11 and 12 August 2023 under the guidance of Dr. Arun Gaur, wherein researchers from over six countries participated. The conference received an overwhelming response as over 400 papers were received, of which 246 were selected for presentation in a hybrid mode. The chief guest for this conference was Prof. M. Parida, Director CSIR-CRRI, New Delhi. This conference was sponsored by infrastructure firms such as L&T, H S Mehta Infra, to name a few. Reputed publication partners for this conference were ASCE, Elsevier, and Taylor and Francis.



Department of Computer Science and Engineering

- Dr. Lavika Goel is heading a project that aims to design and implement a Hybrid Nature Inspired and Machine Learning Based Intelligent Optimization Model for Crop Recommendation in Rajasthan, India. This project has been granted Rs 27.07 lakh by SERB and is expected to continue from 2023 to 2026.

- Dr. Pilli Emmanuel Shubhakar is heading a project that aims to enhance security for ZigBee Networks. This project has been granted Rs. 4.60 lakh by the Data Security Council of India.
- Dr. Arka Prokash Mazumdar is heading a project on Scalable and Energy Aware Robust Recommendation Aggregation in IoT Trust Management. This project has received funding of Rs. 4.72 lakh from the Data Security Council of India.
- Dr. Namita Mittal is developing a user-friendly Chatbot system, an interface for information extraction in Natural language. This project has been granted Rs. 25.30 lakh by ISRO- RACS, Department of Space, and is expected to continue from 2023 to 2026.
- Dr. Ashish Kumar Tripathi is heading a project titled Automated Maze Leaf Disease and Weed Detection in Extreme Weather Conditions. This project uses Deep Neural networks and has been granted Rs. 5.04 lakh by Doremon Labs. It is expected to continue till 2024.
- Dr. Neeta Nain from the Department has been awarded full membership of OWSD (Organization for Women in Science for the Developing World), a unit of UNESCO, in the year 2023.
- Dr. Mushtaq Ahmed delivered an expert talk on “Responsible AI and Its Application in GAIT Analysis” at the National Seminar on “Responsible AI and Sustainable Development”. The seminar was organized by Aligarh Muslim University, Aligarh, for faculty members, research scholars, P.G and U.G students of Artificial Intelligence, Computer Science and Engineering, and other related fields to impart insights on the foundations of responsible AI and sustainable development.



- Dr. Mushtaq Ahmed is awarded the 7th National Award for Excellence in Education 2023 by the Association of Muslim Professionals (AMPs). The award is given by the AMP to the faculty members in recognition of their outstanding services in the field of education and invaluable contribution to society at large.
- Dr. Mushtaq Ahmed delivered an invited expert talk on “Blockchain and its applications” at an event organized by the Department of Computer Science and Engineering, Jamia Millia Islamia, New Delhi.
- Dr. Mushtaq Ahmed delivered an expert talk at the Faculty Development Program (FDP) on “Advancements in Generative Artificial Intelligence (AI): Exploring Cutting-edge Techniques and Models”, conducted from 25 to 29 September 2023. The FDO was sponsored by the Science and Engineering Research Board (SERB) and the Department of Science and Technology (DST). The Amity Institute of Information Technology, Amity University, Rajasthan, organized this symposium on 25 September 2023 to bring together experts, researchers, and professionals from various fields to discuss generative AI. Some topics covered in the FDP were Introduction to Generative AI: Fundamentals and Evolution, State-of-the-Art Generative Models, Transfer Learning and Few-Shot Learning in Generative AI, Generative AI applications and Industry 4.0.

- The Department organized an industry expert talk for B.Tech (VII Sem) students as part of their course on Machine Learning. The speaker, Dr. Debayan Deb, President and CEO, LENS Corporation, Gurgaon, delivered a lecture on “Generating Tomorrow: A Journey Through Machine Learning & Generative AI's Past, Present, and Future”. Dr. Neeta Nain was the coordinator of the event.



Department of Electrical Engineering

- Dr. Saravana Prakash P is heading a project that aims to design and develop a highly Reliable SiC/GaN Based Power Supply Unit for Space Mission. The project has been granted Rs. 1 lakh by ISRO-RACS and is expected to continue in the year 2023.
- Dr. Hemant Kumar Meena is heading a project that aims to develop Silicon Proven IP Cores, Transceiver IC and System Prototype for the mmWave Radar Sensing in Healthcare and Security Applications. The project has been granted Rs. 288 lakh by Meity and is expected to continue from 2023 until 2028.



- Dr. Rohit Bhakar is heading a project that aims to lower carbon pathways for energy system planning and operation under the aspects of flexibility from the transport sector. DST has granted the project Rs. 23 lakh and is expected to continue from 2023 to 2025.
- Dr. Rohit Bhakar is heading a project that aims to build a Blockchain-based Multi-Layer Energy Management System for Smart Buildings. The project has been granted Rs. 42 lakh by DST and is expected to continue from 2023 to 2025.
- Dr. Man Mohan Garg is heading a project that aims at Modelling, Simulation and Hardware Development of DC-DC Converter Circuits. The project has been granted Rs. 1.5 lakh by Science and Engineering Research Board, New Delhi, India, and is expected to continue in the year 2023.
- Dr. Man Mohan Garg is heading a project that aims at Modelling, Simulation and Hands-on Practice on Control of Power Electronics Converters for Green Energy Applications. The project has been granted Rs. 5 lakh by Science and Engineering Research Board, New Delhi, India, and is expected to continue in the year 2023.
- Divya Rishi Shrivastava, Shahbaz Ahmed Siddiqui, and Dr. Kusum Verma were awarded a patent on 18 August 2023 for their report titled “A Novel Comprehensive Approach to Detect Power System Events in Real Time”, by the Indian Patent Office, New Delhi.
- The department organized a National Short-Term Course on ‘Foundation Course in Electrical, Instrumentation, Civil, and Mechanical Engineering’ from 8 to 12 August 2023.
- The department organized an international Short-Term Course on IEEE Computational Intelligence Society (CIS) Summer School on ‘Artificial Intelligence and Machine Learning for Engineering and Social Science Research’ from 4 to 8 September 2023.
- Dr. Hemant Kumar Meena and Dr. Bharat Choudhary from the Department of Electronics & Communication Engineering, in collaboration with researchers from IIIT Hyderabad and AMU Aligarh, secured a research fund of Rs. 2.88 crores from the Ministry of Electronics and Information Technology (MeitY) under the Chips to Startup (C2S) Programme.
- Dr. Sandeep N was listed in the top 2% of scientists in the world for research. This award was given by Stanford University in the USA.
- Dr. Rajesh Kumar, an eminent faculty member of the Department of Electrical Engineering, has been appointed as a Distinguished Lecturer for IEEE IAS (Industry Applications Society) for 2024 and 2025.

Department of Electronics and Communication Engineering

- A patent titled “SILICO-AI: An AI-Based Portable Computer-Aided Diagnostic System for Silicosis Disease” was filed by Dr. Kuldeep Singh, Mr. Faisal Mushtaq, Dr. Satyendra S Chouhan, Dr. Sandeep Mandia, Dr. Rajesh Kumar, and Dr. Priyanka Harjule, with Registration Number 202311063986, to the Controller General of Patents, Designs & TradeMarks, Government of India, on 23 September 2023.



- Dr. Kuldeep Singh is involved in a project for the “Development of Techniques for Data Traffic-based Analysis of Smart Systems” for the Defense Research and Development Organization (DRDO), under the Ministry of Defense, Government of India. The project, valued at Rs. 103.49 lakh, is scheduled to continue from 2023 to 2025.
- Dr. Amit Mahesh Joshi is working on “Onboard Spectral Preprocessing for Multispectral Image Compression using FPGA Technology” for the Indian Space Research Organisation (ISRO). This project, with a budget of Rs. 18.62 lakh is planned for the period 2023 to 2025.
- Dr. Rajesh Saha and Dr. Sarthak Singhal have been recognized in the top 2% of scientists worldwide, according to the prestigious list compiled by Stanford University and Elsevier in 2023.
- Dr. Kuldeep Singh received an Indian patent titled “An AI-Based Portable Computer-Aided Diagnostic System for Silicosis Disease”, published by Controller General of Patents, Designs & TradeMarks, Govt. of India in the year 2023.
- Dr. Bharat Choudhary and Dr. Hemant Kumar Meena, Department of Electrical Engineering, in collaboration with researchers from IIIT Hyderabad and AMU Aligarh, secured a research fund of Rs. 2.88 crore from the Ministry of Electronics and Information Technology (MeitY) under the Chips to Startup (C2S) Programme.

Department of Humanities and Social Sciences

- The Department held an interactive session with Dr. Raj Srinivasan, Professor of Mathematics from the University of Saskatchewan, Canada, on 17 August 2023. The program was coordinated by Dr. Niraja Saraswat and Dr. Nidhi Bansal.
- A National Seminar and Panel Discussion on Gender Sensitization called “Know your Rights and Duties” was held during the Orientation Programme 2023 Phase II at MNIT Jaipur on 27 August 2023.
- In collaboration with the Training and Placement Cell, the department organized a short-term course titled “Capacity Building Program Series 4.0” from 18 to 22 August 2023. The programme was coordinated by Dr. Niraja Saraswat, Dr. Priyanka Harjule, and Dr. Meena Nemiwal.
- Dr. Nupur Tandon, along with her research scholar, Vanisha Pandia, presented a paper on “Annexation and Exile: A transnational literary perspective of memory, trauma and resistance in Yangzom Lama's 'We measure the earth with our bodies'” in the International Conference on Memory and Resistance in 20th Century Women's Fiction, held at University of Buckingham on 26 August 2023.
- Dr. Nupur Tandon and her research scholar, Mili Jain, presented a paper titled “Why Me?’ Narrativizing the Testimonies of Korean Comfort Women in Kim Soom's One Left (2020)” at the International Conference on Gender Studies held at NIT Surathkal from 21 to 22 September 2023.



- Dr. Niraja Saraswat and her research scholar, Shubhangi Bhatnagar, presented a paper titled “Of Familial Fault Lines: Insidious Trauma in Krupa Ge’s What We Know about Her” at the International Conference on Gender Studies held at NIT Surathkal from 21 to 22 September 2023.
- As a part of the Diamond Jubilee Celebrations, the Department organized a webinar on “A Practical Guide to Issues in Writing for Academic Publication”. It was delivered by Dr. Theron Muller, Associate Professor, University of Toyama. The event took place on 25 September 2023. Dr. Niraja Saraswat coordinated the program, while Dr. Preeti Bhatt, Head of the Department, HSS, served as the convener. The webinar provided valuable guidance to both novice and seasoned scholars, equipping them with insights into the intricacies of academic writing and publication.
- The Department organized an oath-taking ceremony as part of the Swacchta Pakhwada on 29 September 2023. The vision and mission of this drive was to bring about behavioral and attitudinal change towards our surroundings and to create a collaborative consciousness regarding maintaining daily hygiene. The oath-taking ceremony was followed by some enlightening discussions as to how everybody has been and can contribute towards the cleanliness drive to the best of their potential. The discussion brought to light certain ways and means by which the citizens can really contribute towards making contemporary India a cleaner and hygienic place to live in.
- Ishaan Arora, Ph.D. Scholar, Department of Humanities and Social Sciences, secured the second position in the Poetry Recitation Competition, organized under Swacchta Pakhwada under the aegis of the Ministry of Education flagship Programme in Neeti Sabhagar on 6 October 2023.
- Ishaan Arora won two awards in the Hindi Saptah organized by the Rajbhasha Cell. He secured the first position in the Debate Competition as well as in the Written Quiz Competition.

Department of Management Studies

- As part of the Orientation Program 2023 for the UG and PG students, held in two phases, from 3 to 5 August 2023 (Phase I) and from 26 to 27 August 2023 (Phase II), multiple Wellness Camps were organized by the Wellness Team, led by Dr Ritika Mahajan, Coordinator, under the guidance of DSW. The camps were instrumental in setting a foundation for students' overall well-being, ensuring they were prepared for the journey ahead in their respective fields. The camps addressed various wellness facets from elevating health consciousness to advocating for a balanced digital footprint. Unique activities like comprehensive psychometric assessments in "Discover Your X-Factor" allowed students to explore their personalities, unlocking potential leadership qualities and learning preferences. One of the sessions, "Digital Zen," focused on the significance of digital well-being, guiding students on the responsible use of technology, a topic of increasing relevance in our digitally-saturated environment.



Through interactive and experiential learning setups in "Connect and Thrive," students were encouraged to forge meaningful connections. Sessions dedicated to physical health in "Fit and Fabulous" instilled the importance of a sound body for a sound mind. At the same time, leisure activities in the "Happiness Hub" underlined the critical role of balance and stress management in achieving academic and personal success.



- The Department organized an event on "STC Finance for Beginners in the Digital Era" from 21 to 25 August 2023. Dr. Shweta Sharma and Dr. Shridev coordinated the event. STC aimed to train the participants on various fundamental finance concepts and explore new areas of Fintech, AI, and supply chain finance, along with their practical implications in the industry. A total of 32 participants attended the STC.

Department of Mathematics

- Dr. Ritu Agarwal has been awarded full membership of OWSD (Organization for Women in Science for the Developing World), a unit of UNESCO in the year 2023.

- Dr. Ritu Agarwal delivered the keynote address on her paper titled "Dynamics of the epidemic models and fractional calculus" at the 6th International Conference on Mathematical Modelling, Applied Analysis and Computation-2023 (ICMMAAC-23), organized by JECRC university, Jaipur from 3 to 5 August 2023. In the talk, a systematic development of the SIR model of epidemics and its extensions were discussed. The Caputo fractional SIR model and its comparison with the integer order model were also presented.
- Dr. Ritu Agarwal delivered an invited talk on her paper titled "Bicomplex power series, natural boundary and gap theorems" at the 29th International Conference on Finite or Infinite Dimensional Complex Analysis and Applications (ICFIDCAA 2023) at Ramanujan School of Mathematical Sciences, (A Central University under the Ministry of Education, Govt. of India), Pondicherry University, India, from 21 to 25 August 2023t.

Department of Mechanical Engineering

- Dr. ML Meena, Dr. Rahul Jain, and Prof. G. S. Dangayach were awarded a patent for "Flexible Push-Pull Weeder Tool for Manual Agriculture Weeding" from the Patent Office, GoI, on 10 August 2023. The Flexible Push-Pull Weeder Device addresses the limitations of traditional weeding tools by providing a single, adaptable solution that reduces physical strain, improves comfort, and streamlines the weeding process for manual agriculture, ultimately benefiting gardeners, farmers, and the environment.



- Dr. Monica Sharma is heading a project that aims to examine the effectiveness of Atal Innovation Mission (AIM) for the promotion of Innovation and Entrepreneurship in India. This project has been granted Rs. 15 lakh by ICSSR and is expected to continue from 2023 to 2024.
- Dr. M. L. Meena is working on a project to study the Ground Water Level and Increasing Borewell Water Level of UBA Villages in Jaipur District. This project has been granted Rs. 3.67 lakh by WSSO, Government of Rajasthan, and is expected to continue from 2023 to 2024.
- Dr. Dilip Sharma, Dr. Amit Jhalani, S.L. Soni, Digambar Singh, and Pushpendra Kumar Sharma were awarded a patent on 14 September 2023, for their report titled "Formulation of a newly synthesized gomutra-in-diesel emulsion", with Registration No. 451647 by The Patent Office, Government of India.
- Dr. Harlal Singh Mali, Associate Professor, Department of Mechanical Engineering hosted the faculty delegates from The College of New Jersey (TCNJ), USA, in the Advanced Manufacturing & Mechatronics Lab of the Department as part of their visit to MNIT Jaipur.
- Dr. Harlal Singh Mali organized a motivational talk on 25 August 2023, for the fourth-year B. Tech students of the Mechanical Engineering Department, with Indian Army Artillery Officer, Col Ritesh Shrivastava, Corp of EME being the chief speaker for the event.



- Dr. Makkhan Lal Meena received the IEI NMLC-FCRIT Excellence Award in two categories on 15 September 2023. He was deemed the winner in Academic Excellence in Teaching Faculty (National Category) and Runner-up in Research Excellence in Teaching Faculty (National Category).





Centre for Metallurgical and Materials Engineering

- The Department hosted a National Workshop on ANSYS Simulation Software Training, alongside an Indo-USA student interaction event from 7 to 11 August 2023.



Centre for Energy and Environment

- The Centre hosted a delegation of Egyptian scientists as part of the Indo-Egypt Bilateral Project. This visit, spanning from 8 to 15 October 2023, facilitated collaborative efforts between international experts, fostering knowledge exchange and enhancing global cooperation in the fields of energy and environmental studies.



- The Centre welcomed Prof. Y.R. Sood from NIT Hamirpur, who delivered an engaging lecture on "Power Sector Moving Towards Deregulation." The session, conducted on 17 August 2023, delved into the intricate aspects of the power sector's evolution, focusing on the significant transition towards deregulation. Prof. Sood's expertise shed light on the current trends and future possibilities within the deregulated power industry, offering valuable insights to the audience.
- Mr. Akash Vajpai, a distinguished professional from Deloitte India, Gurgaon, delivered an insightful talk on "Climate Change and Career Opportunities". This event, held on 25 August 2023, provided attendees with valuable perspectives on the intersection of climate change challenges and career pathways. Mr. Vajpai's expertise illuminated potential directions for individuals aspiring to make a difference in the environmental sector.





- Dr. Sunanda Sinha was honored with the Best Paper Award at two prominent conferences: Innovations in Clean Energy Technologies (ICET 2023) held at MANIT Bhopal and the IEEE SEFET 2023. Her exceptional research contributions in the fields of clean energy technologies and electric transportation were recognized, showcasing her expertise and dedication in these domains.
- Another significant project, helmed by Dr. Vivekanand, delves into collaborative efforts between India and Russia. The project, spanning from 2023-26, is titled "Indo-Russia Enhancing the Efficiency of Clean Energy Production by intensifying Anaerobic Bioconversion of Organic Waste using Solar Energy," receives funding from the Department of Science and Technology (DST), Government of India, with a substantial grant of Rs. 74.89 lakh. The central aim of this endeavour is to augment the efficiency of clean energy production by intensifying the anaerobic bioconversion of organic waste, all powered by solar energy. This initiative underscores the importance of integrating renewable sources and waste management technologies, ultimately paving the way for sustainable energy practices.
- Dr. Kapil Pareek is leading a project titled "Development of Electro-spun Carbon Fibers using Bio-waste for Energy Storage Application," for the period of 2023-24. This project is made possible through funding from the Ministry of Textiles, amounting to Rs. 50 lakh. The primary objective of the research endeavor is to explore the potential of utilizing bio-waste to create electro-spun carbon fibers. These fibers are specifically engineered for energy storage applications, aligning the project with sustainable practices and fostering innovative solutions within the energy sector.
- The Center collaborated and organized a prestigious International Conference on Sustainable Energy and Future Electric Transportation (IEEE SeFeT 2023) at Siksha O Anusandhan University, Bhubaneswar, Orissa, India. This significant event, held from 9 to 12 August 2023, brought together leading researchers, experts, and scholars from across the globe to deliberate on sustainable energy solutions and the future of electric transportation. With a focus on innovation, collaboration, and knowledge exchange, the conference provided a platform for in-depth discussions, groundbreaking research presentations, and insightful keynote addresses. Attendees had the opportunity to engage with cutting-edge developments in sustainable energy and electric transportation, fostering a vibrant atmosphere of learning and intellectual exploration.





Materials Research Centre

- Dr. Amoghavarsha Mahadevegowda, Bye Fellow and College Lecturer in Engineering, University of Cambridge, was invited to present a seminar on "Electron microscopy based studies of novel electrodes for energy applications", at MRC on 5 September 2023. Faculty members and students of MRC, Chemistry, Physics, and Metallurgical and Materials Engineering attended the seminar.
- Dr. Bhagwati Sharma organized a visit for a group of 100 senior secondary female students from Jawahar Navodaya Vidyalaya, Paota and Jawahar Navodaya Vidyalaya, Dausa to MRC. The visit was part of the Vigyan Jyoti programme of the Department of Science and Technology, Government of India, that aims to promote interest in STEM education among girl students.

MNIT Innovation and Incubation Centre

- The ED Cell orientation program was organized by MIIC and MNIT ED Cell on 17 August 2023. Around 200 students from various branches participated in the event. Dr. Monica Sharma, Ad- Incubation MNIT spoke about the ED Cell's operations along with future vision and programs to be conducted. Dr. Sanjay Gaur, Senior Operations Manager, informed about the operations and functions of MIIC and the benefits that can be harnessed by associating with it. Mr. Viral Tiwari, founder of Nushkha Kitchen, shared his start-up journey experiences with the students and motivated them to take the bold step of entrepreneurship.

- Students of Manipal University, Jaipur, visited MIIC on 28 August 2023. Approximately 43 students, along with 5 faculty members, visited MIIC and asked questions about the Startup's awe-inspiring journey. The visit provided them with insights into incubation processes and opportunities for turning their ideas into successful ventures. They were also shown a presentation on how MIIC is hand-holding startups and supporting innovative ideas.
- In association with ED Cell, the center organized an interactive session with Mr. Ashish Arora, who shared his entrepreneurial journey. Around 150 students from various branches participated in the event.



- The "Energy Champ StartUp Seed Support" Competition, a collaborative effort between MIIC and the Rajasthan Renewable Energy Corporation Limited (RRECL), concluded on 11 October 2023. The event marked a significant achievement in the realm of energy efficiency innovation. The competition was crafted to address the unique challenges faced by startups that operate in the energy efficiency sector. MIIC and RRECL joined hands to provide a platform that would not only identify promising energy efficiency ventures but also offer them the seed support they require.



- The Centre hosted an Interactive Session on "Marketing Aspect for Startups" featuring Mr. Naval K. Arora, founder of Dr. Maa Products. The session covered brand building, organic marketing, zero-investment strategies, and presented live case studies of individual startups. Around 15-20 startup promoters and students actively participated in the program.



- "Hack 4 India" Jaipur Meet-up was conducted at MIIC on 16 September 2023 by the Hack4India Team and Chanchal Foundation. The meetup aimed to unite the tech community, encouraging innovative projects and ideas. The event's chief guest, Dr. Ashutosh Pant, Independent Director, IOCL, discussed the role of youth in nation-building.



Central Library

- New U.G. students received a formal orientation at the Central Library on August 26 and 27, 2023. Dr. Rishi Tiwari and Dr. Rajeev Agrawal, along with Mr. Navdeep Redhu and Mr. Sachin Katagi, briefed students in the

seminar hall. The orientation covered a comprehensive introduction to library services, including E-Journals, E-Books, library consortia, and open-source tools.



- Central Library celebrated Hindi Week with a book exhibition from August 9 to 17, 2023. Showcasing Hindi books across diverse subjects, including Science, Engineering, Humanities, Social Science, Literature, and Religion, the exhibition drew attendance from students, faculty, staff, and members of the Rajbhasha Committee. The library team's efforts were lauded by visitors.



- MNIT Jaipur, in collaboration with Dean, Research & Consultancy, hosted the "Springer Nature: India Research Tour," where Dr. Rishi Kumar Tiwari, Librarian, presented on the library's resources, including E-books, E-journals, and open-source tools.



CAMPUS BUZZ

- A panel discussion on “Mind to Matter: Empowering Students Health and Wellness” was organized by DSW on 26 August 2023. The experts for the event were Dr. Gagan Deep Kaur Makkar, Clinical Psychologist, Shri Adinarayanan Venkatachalam, Founder of Anaadi Foundation, and Mr. Rijul Arora, Expert in well-being. The discussion focused on the importance of digital well-being and practical ways of managing it, primary challenges faced by students in college life, and simple steps to adapt and mentally develop in the scenario to become a happy, efficient, and productive person. The experts emphasized the importance of nutritious food, socially active, appreciative ambiance, yoga, pranayama, gratitude, acceptance, and soulfulness for a fruitful life.
- MNIT Jaipur actively participated in the “MeriMaatiMeraDesh – AmritKalashYatra” campaign on 18 October 2023, as directed by the Ministry of Education (MoE). The campaign aimed to honor the sacrifices of our nation’s heroes through various activities like constructing Shilaphalakams, creating Amrit Vatikas, tree plantation, VeeronkaVandan, and Panch Pran ceremony.



The institute conducted multiple activities to showcase its commitment to the nation and instill a sense of national belonging in young minds.

- The Wellness Club at the Dean Student Welfare Office (DSW), on the occasion of World Mental Health Day on 10 October 2023, organized a special session titled “Insight from Mahabharat: Achieving Inner Clarity for Effective Outer Action”. The illuminating and profoundly enriching session was spearheaded by Shri Adinarayanan Venkatachalam, Founder of Anaadi Foundation & an Adjunct Professor at IIT Delhi, and Ma Smrithi Rekha Adinarayanan, Co-Founder of Anaadi Foundation. Known for their spiritual depth and a lineage that traces back to the spiritual parampara, the speakers brought a unique blend of ancient wisdom and contemporary relevance to the discussion. They discussed how Mahabharat helps young minds enhance analytical thinking, handle peer pressure, be an energetic participant in life, and manage aspirations for success.
- DSW organised a captivating workshop on “Healthy Coping Strategies for Mental Well-Being”. Dr. Gagandeep Kaur Makkar, a Clinical Psychologist by qualification and a Student Counsellor by profession at IIT Bhubaneswar, was the distinguished speaker for the event. She enlightened the audience with her invaluable wisdom and expertise, creating awareness of the need for mental health and well-being.



- MNIT Jaipur, as the knowledge partner for Jawahar Navodaya Vidyalaya, Paota and Jawahar Navodaya Vidyalaya, Dausa, organized a visit of girl students to MNIT Jaipur campus on 22 September 2023 under the "Vigyan Jyoti Scheme" supported by DST. It aimed to motivate and promote the Indian girl students from rural areas to get into areas of Science, Technology, Engineering, and Mathematics (STEM).



- A valuable workshop on "Good Hygiene and Sanitation Practices Towards Attainment of SDGs" was conducted on 6 October 2023 to raise awareness about the importance of personal hygiene and best practices. As part of the event, Dr. Nivedita Kaul, Associate Prof., Dept. of Civil Engg, MNIT Jaipur, addressed the students and talked about the safe disposal practices and minimisation of use of non-biodegradable sanitary pads.
- Members of the MNIT Jaipur Alumni in America celebrated their inaugural Americas Alumni Reunion in New Jersey, USA. It marked a new tradition for the Institute's graduates based in North America. Over 90 alumni from the batches of 1970s up to the batch of 2023 came together for a night of camaraderie, memories, and celebration of the Jaipur spirit.

- MNIT Jaipur participated in the nationwide campaign of cleanliness and sanitation under the "Swachhata Hi Seva" Abhiyan on 1 October 2023. Over 100 faculty members, students and staff members participated in the cleanliness drive conducted in the nearby villages of Tamariya, Chaksu, Jaipur district. They were accompanied in this effort by around 200 villagers. This drive aimed to clean the village and make it plastic-free, thereby propagating the message of the importance of cleanliness to lead a healthy and happy life.



- MNIT Jaipur recently achieved a significant milestone by debuting in the Times Higher Education (THE) World University Rankings in the 601-800 band for 2023. This remarkable accomplishment is part of a broader achievement, with a record-breaking 91 Indian institutes securing positions in THE's prestigious rankings.



- MNIT Jaipur signed an MoU with The College of New Jersey, USA, on 14 September, 2023 for student exchange, research projects, joint supervision of Ph.D. students, and organizing joint conferences, workshops, and seminars. Prof. N. P. Padhy, Director, represented MNIT Jaipur and TCNJ, USA, was represented by Provost Jeffrey Osborn. The MoU signing ceremony took place at MNIT Jaipur in the presence of Prof. Rakesh Jain, Dean of International and Alumni Affairs, Prof. Jyotirmay Mathur, Dean of Academic Affairs, Dr. Madhu Agarwal, Associate Dean of National and International Affairs, Dr. Harlal Singh Mali, Associate Professor in the Mechanical Engineering Department, MNIT Jaipur, Dr. Christa Olson, Executive Director of Global Engagement, Dr. Andrea L. Welker, Professor in the Civil Department, and Dr. Manish Paliwal, Professor in the Mechanical Department at TCNJ, USA.

- The IEEE Sensor Council Student Chapter, MNIT Jaipur, successfully organized the Women in Sensor (WiSe) event titled, “Women in Sensor: Idea to Innovation” on 29 September 2023 on the institute campus. The event was sponsored by the Women in Sensor Committee of the IEEE Sensor Council. Distinguished speakers Dr. Anil K Roy, Dr. Saakshi Dhanekar, Dr. Sangeeta Singh, and Dr. Rukhsar Zafar delivered inspirational lectures to the students and faculty members to empower women in the field of sensor technology. It was followed by a technical poster presentation competition for the students in the UG and PG/PhD categories.



- Department of Civil Engineering, MNIT Jaipur signed an MoU with the Department of Archaeology and Museums, Government of Rajasthan, on 5 October 2023. The Institute will provide technical expertise for maintenance of archaeological structures in the state.





- Shri Gajendra Singh Shekhawat, Union Minister, Ministry of Jal Shakti, Department of Water Resources, RD & GR, Govt. of India, inaugurated the National Center for Earthquake Safety of Dams on 14 September 2023 at MNIT Jaipur campus, in the presence of Mr. Pankaj Kumar, Secretary, Ministry of Jal Shakti, Prof. N. P. Padhy, Director, MNIT Jaipur, and Professor S. D. Bharti, Head, NCDMM, MNIT Jaipur. The institute director welcomed the guests and thanked the minister for acknowledging the efforts of MNIT Jaipur in building a safer and more sustainable society.



International and Alumni Affairs

- MNIT Jaipur signed an MoU with the Rajasthan Urban Infrastructure Development Project (RUDIP) on 7 August 2023 for developing internship and placement opportunities, joint training sessions, conferences, and seminars.
- MNIT Jaipur signed an MoU with Regional Capacity Building and Knowledge Institute, Jaipur on 9 August 2023 for developing capacity building workshops, research projects, student exchange, and for organizing joint training, conferences, workshops, and seminars.



- MNIT Jaipur signed an MoU with Secure Meters Limited, Udaipur, on 16 August 2023 for internship and placement opportunities, industrial exposure, and for organizing joint training, conferences and seminar.
- MNIT Jaipur signed an MoU with the Indian Council of World Affairs, New Delhi, on 16 August 2023 for Internship and placement opportunities and organizing joint training, conferences and seminars.

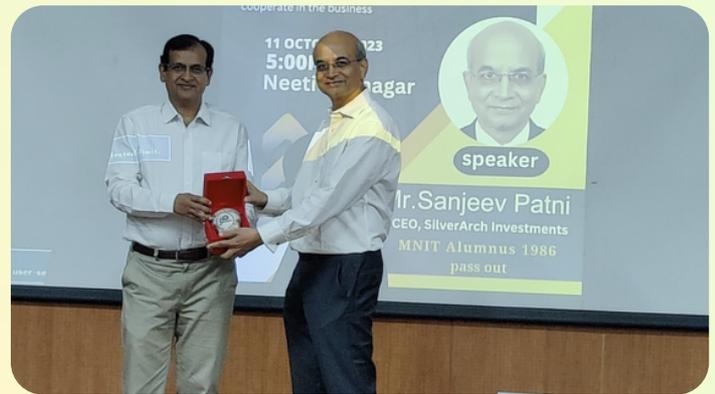




- Prof. Raj Srinivasan, delegate from the University of Saskatchewan, Canada, visited the MNIT Jaipur campus on 17 August 2023 for interaction with faculty and students, to explore the possibilities of collaborations, and share mutual growth opportunities between the University of Saskatchewan, Canada, and MNIT Jaipur.



- Dr. Nitin Khosla, Senior Software Engineering Consultant, Avanade, Australia, visited the MNIT Jaipur campus on 4 October 2023 to interact with faculty and students, explore the possibilities of academic and research collaborations, and share mutual growth opportunities between Australian Universities and MNIT Jaipur.



- The TCNJ, USA Delegates, Dr Christa Olson, Executive Director, Global Engagement; Dr Andrea L. Welker, Professor, Civil Department; Dr Manish Paliwal, Professor, Mechanical Department, TCNJ, USA visited MNIT Jaipur campus on 14 September 2023 to explore the possibility of faculty and student exchanges and other academic and research collaborations, and an MoU was signed between MNIT Jaipur & TCNJ, USA during this visit.



- Egyptian research collaborators Mohamed A.M. Mohamed, Sozan E. El-Abeid, and Ayman Y. Ahmed, from the Agriculture Research Centre, Cairo, Egypt, visited MNIT Jaipur from 8 to 15 October 2023 for interaction with faculty members and students, and to explore the possibilities of academic and research collaborations to share mutual growth opportunities between Egyptian Universities and MNIT Jaipur.





- A distinguished 1986 alumnus of MNIT Jaipur, Mr. Sanjeev Patni, CFA & CEO of SILVERARCH Investment, delivered a guest lecture titled "Inside a Fund Manager's Mind: A Career Journey" on 11 October 2023. He shared insights from his career and experiences in management, finance, and as a CEO of a fund management company, as well as learnings from his 33 years of experience with stocks, markets and portfolio management and discussed how today's youth can apply those learnings for building sizable wealth for their later years.
- The Hindi Week was organized and celebrated at the institutional level by The Official Language Implementation Committee, MNIT Jaipur, from 10 October to 17 October 2023. The week-long event was inaugurated on 10 October 2023 by Prof. N. P. Padhy, Director, MNIT Jaipur, who presided over the event as the chief guest, with Prof. Mahendra Mohan Sharma, Registrar, MNIT Jaipur present alongside him. Various competitions were organized for the students, academics, and members of faculty and staff to inculcate a sense of pride in the Hindi language and engage in Hindi-speaking activities. The events included Vaad-Vivad Pratiyogita (Debate Competition), Hindi Ashubhashan Pratiyogita (Extempore Competition), Poster Making Competition, Kavya-Path (Poem Recitation) Competition, Hindi Essay Writing Competition, and Hindi-Prashnotari (Questionnaire) Competition.
- The closing ceremony of the Hindi Week celebrations was conducted on 17 October, 2023. The chief guest for the event was Mr. Akhilesh Jain, Former Managing Director, Rajasthan Electronics & Instruments Limited, with Prof. N. P. Padhy, Director, MNIT Jaipur, who presided over the event. The dignitaries distributed the awards and certificates to the winners and participants in the multiple events held throughout the week-long celebrations.
- On the occasion of The Partition Horrors Remembrance Day, the Electoral Literacy Club, MNIT Jaipur organized a Panel Discussion on "Theme-based Discourse on Horrors of Partition" on 14 August 2023, under the directives of the Ministry of Education. Esteemed panelists included Prof. Vibhuti Singh Shekhawat, Professor, Department of HSS, Prof. Prahlad Rai, Retired Professor, Department of Law, University of Rajasthan and Dr Suman Maurya, Assistant Professor in the Department of Political Science & Director of Center for Ambedkar Studies. The panelists shared their thoughts on the topic and emphasized on the socio-political conditions prevailing in the country during the Partition period and their subsequent impact on society.





• MNIT Jaipur celebrated the 77th Independence Day with great fervour and enthusiasm. The Honorable Director Prof. NP Padhy hoisted the National Flag.





Unnat Bharat Abhiyan

- As part of the Orientation Programme for the 2023 batch of UG and PG students from 3 to 5 August 2023, the Unnat Bharat Abhiyan team at MNIT Jaipur put up a stall at VLTC for orientation and interaction with the students.
- As part of the 77th Independence Day celebrations, the UBA unit, MNIT Jaipur, conducted several activities like painting competitions, plantation, and the distribution of stationery on 12 August 2023 at the Government Primary School Jirrota, Tehsil Sanganer District Jaipur, Rajasthan, India. Dr. Shiv Om Meena, Faculty Advisor, and students were present during the visit to the village. UBA team also invited villagers to celebrate the Independence Day at MNIT Jaipur Campus on 15 August 2023.



- UBA MNIT Jaipur organized “Swachhata Pakhwada 3.0” at Jirrota village on 3 October 2023. A series of events, including painting and quiz competitions, were held on the theme of “Swachhata”. Dr. Pankaj Gupta and Dr. Shiv Om Meena distributed prizes to the winners.
- The UBA MNIT Jaipur team organized a series of events to commemorate Swachhata Pakhwara 3.0 under the Clean India Mission to make India clean and free of open defecation on 29 September and 1 October 2023. To celebrate this mission, Dr. M. L. Meena (Coordinator, UBA), Dr. Amit Joshi, a few faculty members, and 100 students from MNIT visited Tamaria village in Chaksu Tehsil of Jaipur district to spread awareness about cleanliness in the village. Sarpanch, Mukesh Chowdhary, and villagers welcomed the team and supported the mission. The visit started with a cleanliness drive from Govt. Sr. Sec. School to Tamriya Bhairu Ji Temple and the UBA team spread awareness about maintaining environmental cleanliness by cleaning all village areas. The team also organised several competitions like drawing, painting, quiz, essay based on the Swachhata Hi Seva (SHS) for village students and prizes were distributed to the winners. The students were elated with the experience and learned about cleanliness. Sh. Ved Prakash Solanki (MLA, Chaksu), Prof. Jyoti Joshi, Dr. Swati Sharma, Dr. Himanshu Yogi, and more than 400 villagers, students, and MNIT staff were present during Shramdaan.



Unnat Bharat Abhiyan

मालवीय राष्ट्रीय प्रौद्योगिकी संस्थान जयपुर
उन्नत भारत अभियान
स्वच्छता पखवाड़ा





STUDENT CORNER

Russia-Ukraine Face-Off: An Encounter with the Facts

-Ishaan Arora, Research Scholar, HSS

Ukraine has long played a significant role in the international security realm, yet now and again, it needs to be seriously re-addressed in larger geopolitics. At present, the nation is on the cutting edge of a recharged extraordinary power contention that numerous experts say will overwhelm worldwide relations for a long time ahead. Russia's attack on Ukraine in February 2022 denoted an emotional heightening of the eight-year-old clash that started with Russia's extension of Crimea and meant a defining moment for European security. Over one and half years after the conflict began actively, numerous protection and international strategy investigators cast the conflict as a significant key screw-up by Russian President Vladimir Putin. The conflict has hurried Ukraine's push to join Western political coalitions, including the European Union (E.U.) and the North Atlantic Deal Association (NATO).

How did Ukraine become an international blazing point?

Ukraine was a founding member of the erstwhile USSR, which was the archrival of the U.S. during the decades-long Cold War. It was home to a substantial chunk of the association's rural creation, guard businesses, and military, including the Dark Ocean Armada and a portion of the atomic munitions stockpile. Ukraine was so crucial to the association that its choice to

disavow it in 1991 ended up being a death blow for the sickly superpower.

Since its creation and subsequent thirty years of freedom, Ukraine has tried to fashion its way as a sovereign state while hoping to adjust all the more intimately with Western foundations, including the E.U., U.S.A., and NATO. Nonetheless, Kyiv battled to change its unfamiliar relations and connect profound interior divisions. At the same time, for the most part, Russian-talking local areas on the eastern front preferred a nearer attachment with Russia. Ukraine's geography and international standing took a drastic turn in 2014 when Russia attacked one of Ukraine's regions, Crimea, and annexed it as part of its territory. Russia also started outfitting and abetting separatists in the Donbas district in Ukraine's southeast region. Russia's capture of Crimea was the first such instance since World War II that a European state added the area of another state to its own. Over fourteen thousand individuals suffered casualties as a result of the consistent battle in the Donbas region between 2014 and 2021. It has been the bloodiest struggle in modern-day Europe since the Balkan Wars of the 1990s. The threats denoted an unmistakable change in the worldwide security climate from a unipolar time of U.S. strength to one characterized by reestablished rivalry between world superpowers. In February 2022, Russia went for a full-scale intrusion into Ukraine, determined to bring down the supposedly Western-adjusted legislature, with Volodymyr Zelenskyy as the President.



STUDENT CORNER

In Conversation with: Bhavika Nibhwani *as told to Subhrajit Roy (Newsletter Team)*

With this new issue of MNIT Newsletter, it is our immense pleasure to bring to you a very special interview with a student of our college. As you might not know, Bhavika Nibhwani, a third-year student pursuing B.Tech in Computer Science and Engineering (CSE), has bagged prestigious internships at three major tech giants, namely Arcesium, Amazon, and Google.

Impressed by her wondrous achievements, the newsletter team approached her to share some tips regarding how she managed to achieve this feat. In order to inspire our fellow MNITians, we have curated this interview for you:

1. What motivated you to pursue internships at these specific companies, including the prominent ones like Google?

My motivation had never been Google. It was always that I wanted to work on myself and wanted to keep on working until I achieve something that justifies my hard work. So, I guess the motivation was to earn respect and to achieve something to satisfy the hard work that I have done.

2. How did you initially learn about the internship opportunities at these companies?

For Arcesium, it was an on-campus opportunity, so it was available on mail. For Amazon and Google, I saw the internship opportunity on their respective career sites, and also got insights on Arsh Goyal's channel where he posts content



related to latest opportunities in such prominent companies.

3. Could you describe the application and interview process for these internships? Were there any unique challenges or experiences you encountered during the interview stages?

For Arcesium, I filled in the application form which I received by mail in June after whosoever CGPA was above a certain number, they got shortlisted and were allowed to sit for OA (Online Assessment). Arcesium was the first company to conduct offline OA. The OA was conducted in Computer Centre, Prabha Bhawan where 15 people got shortlisted and I was one of them. Interviews were scheduled for the next day. I had to give 4 interviews and finally got selected along with one another candidate.

For Amazon, I gave the OA online. Only a handful of people got the mail to be a part of this opportunity and I was one of them. I got shortlisted after clearing the OA, after which, my technical interview was scheduled. And finally, at the moment of truth, I got the mail of selection.



For Google, I applied through the Careers portal and received mail after a few weeks of my application getting shortlisted. After some days, my HR round was scheduled, which is a phone interview round. Google has a unique selection process, after all. After that, I got the mail for my first technical interview which I cleared and gave the second interview later. And finally, after a week, I received the congratulatory news of getting selected.

4. What was your primary approach to preparing for the interviews with these companies? Can you discuss any technical or soft skills you worked on specifically to make yourself a competitive candidate for these prestigious internships?

For interviews, I didn't have to focus a lot on my communication skills because I was good at explaining problems. I focused more on thinking strategies to solve the given problem and hitting the code. However, for those who are not great at communication skills, they should try giving mock interviews; I gave 2 mock interviews for my own confidence. Technical skills that I focused more on were Data Structures and Algorithms (DSA). I used to solve around 6 to 8 questions daily during summer breaks.

5. What kind of research did you do about the culture, values, and working environment of these companies before applying or accepting the internships?

I was mostly concerned about the work culture because I love to work in a peaceful environment. I asked my fellow acquaintances who work at these companies about the culture there and then made a final decision.

6. Can you share any insights or advice you received from mentors, peers, or others that you found particularly helpful in your internship application and interview journey?

Build your community and find your people, if not offline, then online. I joined various Telegram groups where people used to send various problems. I also refined my resume by watching YouTube videos. Everything is available on YouTube; no need to buy premium courses for technical content. And consistent coding is the only solution. Initially I did coding irregularly and I had to put in a lot of effort again to revise the previous questions and get back on track. Only when I began to code consistently, my critical thinking skills improved and I was able to properly learn my concepts.

7. How do you plan to make the most of your internship experience contributing to your long-term career goals and aspirations?

I want to give it my best shot to receive a Pre-Placement Offer (PPO) from the company. For that, I will be connecting with the employees who work there and will be building connections as it is one of the most essential tools of achieving anything in any domain.

8. What projects or areas of work are you most excited about in each internship, and how do you plan to contribute to those projects?

If we talk about Google, then I am more excited towards Locations and Google Maps, the graph algorithms they use, and the algorithm for monitoring the traffic. And as you get to choose which team you want to be a part of in Google, I will try my best to contribute to this area as much as I can.



IGNITE CHANGE THROUGH ART

The team of MNIT Newsletter organized a Poster-Making Competition on 18 October 2023 on the theme "17 UN Sustainable Development Goals". It is our pleasure to announce the winners of both the Digital and the On-paper categories.

We request the winners to email us at coordinator.newsletter@mnit.ac.in to claim their prizes.

Digital Category Winner



My poster mainly focuses on the three most important sustainable development goals i.e. quality education, economic growth, and gender equality. Breaking the chains of stereotypes enforced by the society on women and other genders, women's development contributes to the economic growth of society and the backbone behind this success is nothing but quality education.

-Ram Soni ((2022UEE1018)



Digital Category Runner-up



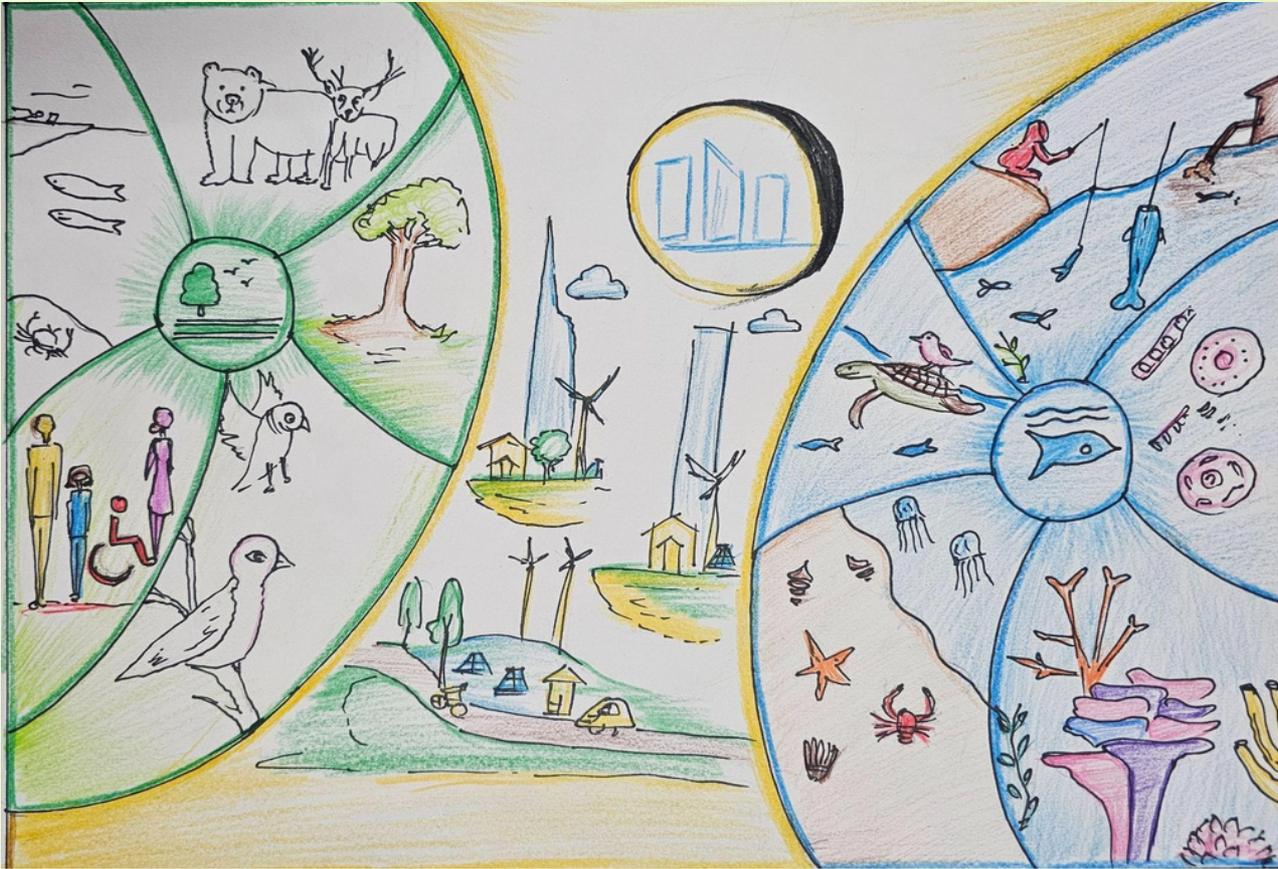
This vibrant and symbolic poster aims to visually represent the 17 UN SDG's that unite the world in a shared commitment to achieve a better future for all. Each of the 17 goals is color-coded, utilizing a unique color to convey its significance. In addition, the presence of 17 soldiers underscores the collective efforts needed from every individual, community, and nation to attain these goals. The central image of the Earth's flag emphasizes the universal nature of these goals, highlighting the importance of international cooperation and solidarity in striving for a more sustainable and equitable world.

Design Elements: 1. Color Representation: 17 distinct colors, each representing one of the 17 UN Sustainable Development Goals. 2. Symbolism: 17 soldiers to represent the 17 goals, emphasizing the collective effort required from everyone to achieve these objectives. 3. Flag of Earth: Central image showcasing the flag of Earth, signifying the shared responsibility of all nations to work towards a sustainable and inclusive global community.

-Vedant Mathur (2022UME1280)



On-Paper Category Winner

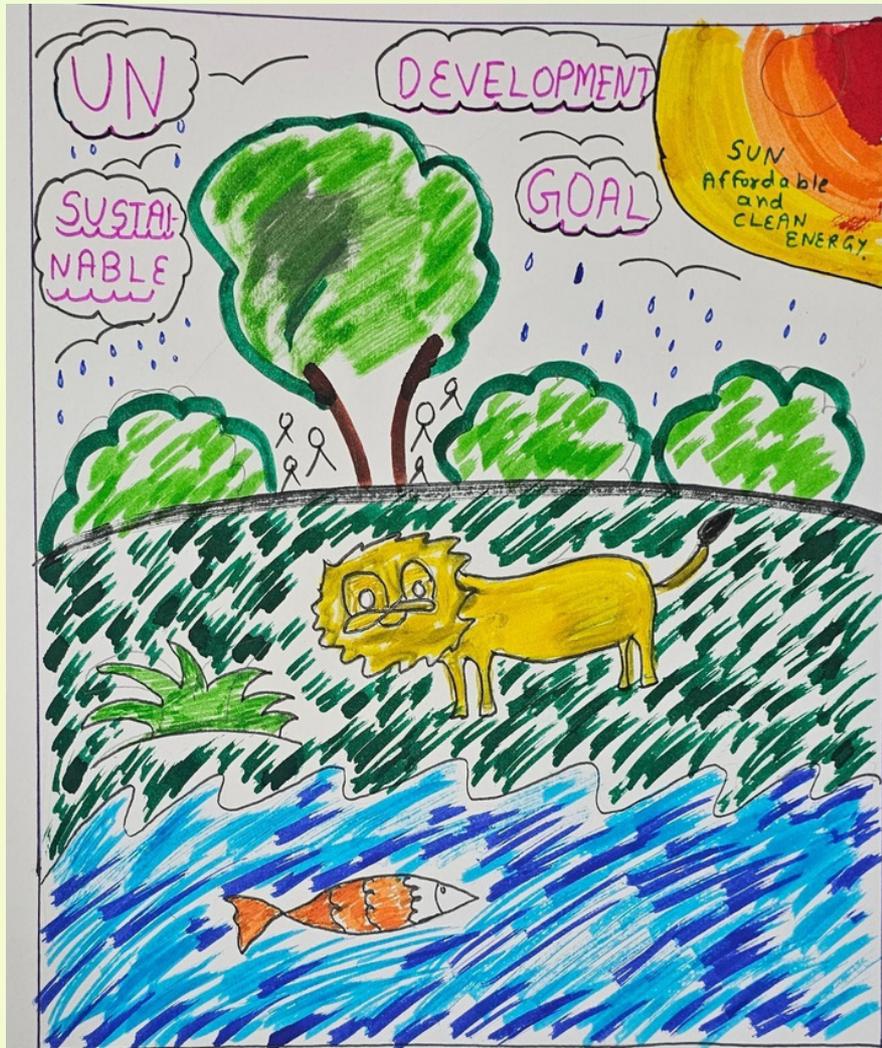


The poster "Life on Land" promotes three UN Sustainable Development Goals through inclusive planning for land development. It emphasizes that all, including animals, birds, aquatic life, and people with disabilities, are stakeholders in cohesive development. Similarly, "Life Below Water" calls for inclusive planning, prohibiting activities like sewage dilution and fishing to ensure sustainable practices. In "Sustainable Cities and Communities," the poster envisions self-sufficient islands with renewable energy and green spaces, advocating for a high-quality life with sustainability. In summary, the poster conveys a message of inclusive planning, involving everyone as stakeholders in land, water, and resources.

-Nikhil Gupta (2023PAR5386)



On-Paper Category Runner-up



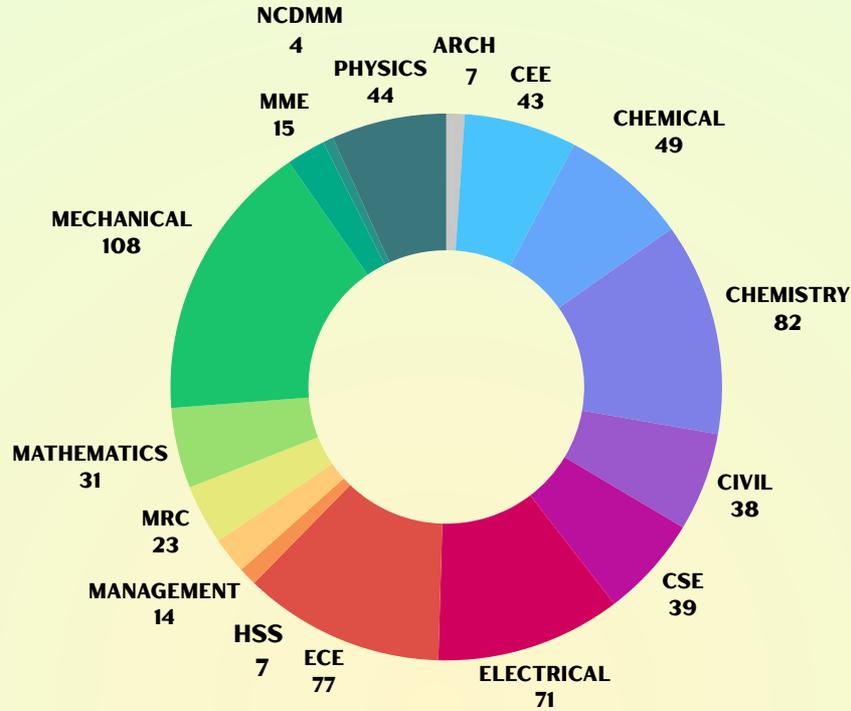
In the above poster we can see the sun represents 'affordable and clean energy'. Because of this, life will be better here 'on land' and 'life below water'. People under the tree, standing, are at peace and there is no hunger. The climate is thriving and very good.

-Anuradha (2022RPY9512)

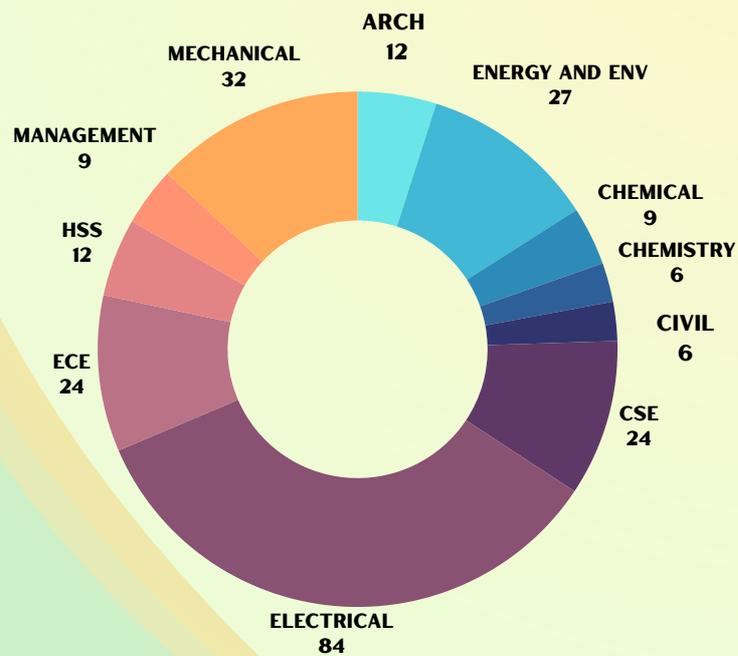


RESEARCH PUBLICATIONS (2023)

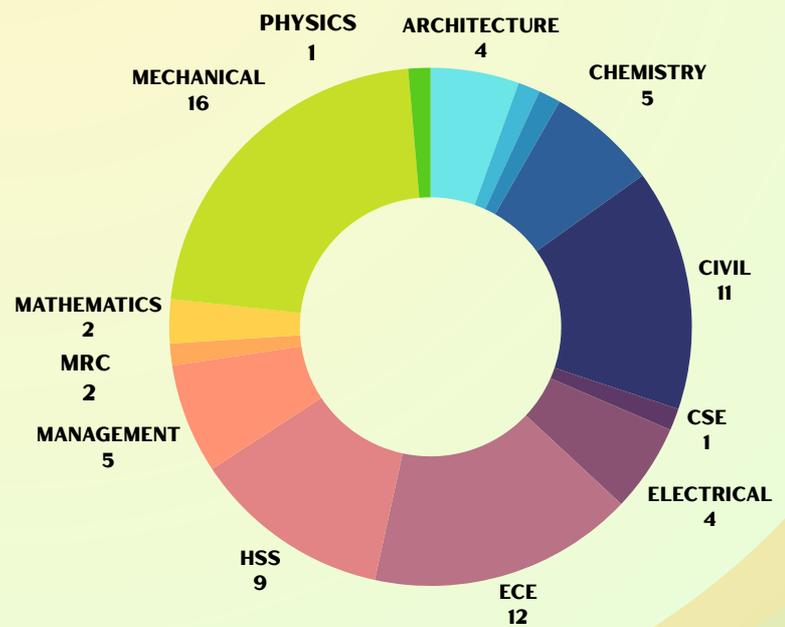
Journal Publications



Number of Conferences



Book Chapters



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)