

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

MNITJ NEWS

QUARTERLY
ISSUE

APRIL 2024





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 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,

As we progress further into the year 2024, it is with great pleasure that I extend my warmest greetings to all members of the MNIT family - students, faculty, staff, alumni, and well-wishers to the second quarterly edition of the 2024 newsletter. I would also take this opportunity to thank the newsletter team, who have consistently gone above and beyond to deliver a newsletter that reflects the ethos of MNIT and resonates with our audience. Their dedication, creativity, and unwavering commitment to excellence have been instrumental in ensuring the success of our newsletter.

At the heart of the MNIT lies the spirit of innovation, excellence, and inclusivity. As we navigate through these mercurial times, our commitment to academic excellence remains steadfast. Despite the challenges posed by the global landscape, MNIT continues to stand tall, driven by the collective determination of its stakeholders to strive for brilliance in all endeavors undertaken by them.



We are dedicated to fostering an environment where creativity flourishes and ideas evolve into tangible solutions that address societal challenges. Our research initiatives continue to push the boundaries of knowledge, and our collaborations with industry and academia are stronger than ever.

I impel each one of you to continue your pursuit of excellence and uphold the values that define MNIT. Together, let us embark on this journey with renewed zeal and perseverance, confident in our ability to shape a brighter future for generations to come.

Prof N.P. Padhy
Director, MNIT



DEPARTMENT NEWS

Department of Chemical Engineering

- The Department of Chemical Engineering organized a National Seminar by Dr. M.L. Parihar at MNIT Jaipur on 14 February 2024.
- Prof. Akhilendra Gupta was honoured with the Life Time Achievement Award from the Indian Desalination Association (InDA) during the Annual Congress of InDA (InDACon 2024) at MIT Muzaffarpur, Bihar on 24 February 2024.
- The Department of Chemical Engineering organized the National Workshop on "Sustainable Waste Management and Recycling" at MNIT, Jaipur, from 11 to 17 March 2024.



Department of Chemistry

- Dr. Pradeep Kumar is leading a project, "Computational Modelling of Heterogeneous and Multiphase Chemistry in the Atmosphere". This project is funded by the SERB-DST with a grant of Rs. 22.16 lakhs and is expected to continue till 2027.
- Dr. Manviri Rani is leading a project called "Fragmentation Analysis of Plastics Risk Assessment and Degradation by Nanomaterials". The project is funded by the DST-SERB Core Research Grant with a grant of Rs. 61.7 lakhs and is expected to continue till 2027.

Department of Civil Engineering

- A lecture on "EHS Management in Industries" was organized on 24 January 2024, featuring Mr. Mukesh Kirar, Associate Vice-President at SRF Ltd. The event provided a deep dive into SRF's safety protocols, health initiatives, and environmental measures.
- A patent has been filed by Mr. Rihaan Maaze and Dr. Sandeep Shrivastava for "A process of making an improved sustainable brick."
- A patent has been granted for "Sustainable Concrete Composition and Method for Preparation Thereof" to Prof. Arun Gaur, Dr. Sonal Saluja and Dr. Sanjay Mundra.



Department of Computer Science and Engineering

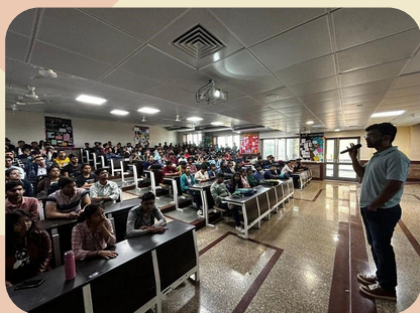
- Dr. Mushtaq Ahmed was the keynote speaker at the International Conference on Advances in Higher Technical Education (AHTE-2024) organised at UEM Jaipur on 26 February 2024.
- Dr. Mushtaq Ahmed presented a paper titled "Fuzzy Logic-Based Analysis of Student Behavior Patterns in Educational Environments" at the 4th International Conference on Innovation in IoT, Robotics & Automation (IIRA – 4.0) which was held from 15 to 16 March 2024. It discussed how students from various backgrounds face multiple challenges in pursuing higher education.



- Dr. Ashish Kumar Tripathi is leading a project entitled “River Health Monitoring using Earth Observation Imagery and Deep Learning Time Series Analysis and Future Forecast”. The project has received a grant of Rs. 7.53 lakhs by ICSSR and is expected to continue till 2025.
- Dr. Mushtaq Ahmed was honoured by The Institute of Engineers (India) for his Outstanding Engineering Services to Society.
- Dr. Namita Mittal has been appointed as coordinator for ‘Participation in school education- Subject Expert Group (SEG)’ under the scheme Unnat Bharat Abhiyan.

Department of Electronics & Communication Engineering

- The Placements and Training Cell, in collaboration with the Departmental Placement Club, organized an enriching “Awareness and Roadmap Session” on 7 March 2024 for first and second-year students. This session served as a comprehensive guide, offering valuable insights into both core and non-core sectors, empowering students with the knowledge to navigate their career paths effectively.



Department of Humanities and Social Sciences

- A short-term course on “Indian Perspectives on Society, Polity, and Development” was held at Malaviya Sabhagar from 22 to 26 January 2024. The course was a unique exploration of India's philosophical and psychological ideas through the lens of modern thinkers like Swami Vivekananda and Sri Aurobindo. Prof. Pranab Banerji and Prof. Rajiv Gupta were invited as esteemed resource persons to deliver lectures on a comprehensive exploration of India's rich philosophical heritage. Dr. Nidhi Sharma was the course convenor, and Dr. Niraja Saraswat and Dr. Nidhi Bansal served as course coordinators.



- The Workshop on Digital Humanities: Bridging the Gap between Traditional Scholarship and Modern Technology was organized from 5 to 9 February 2024. This five-day event aimed to introduce participants to digital tools for research and education in humanities, aligning with interdisciplinary approaches and modernizing scholarship by merging traditional insights with new technology. Prof. Nupur Tandon was the convenor of the workshop and Dr. Niraja Saraswat was the co-convenor of the workshop.



- The Short-Term Training Program on Employability Skills was organized by the Department in collaboration with the Training and Placement (T&P) Cell, from March 15th to 19th, 2024, under the auspices of Diamond Jubilee. The program aimed to equip students with essential employability skills crucial for their professional journey. Dr. Preeti Bhatt, Head of HSS, spearheaded the program with Dr. Dipti Sharma and Ms. Nanny Tripathi as coordinators, and Prof. Dharmendra Boolchandani, Head of T&P Cell, as the advisor. Dr. Shikha Singh, Director and Founder of Swabodh Studio and an alumna of the Humanities and Social Sciences Department contributed as a resource person, enriching the program with valuable insights.



- Dr. Nidhi Bansal is working on a project titled "Gender Parity in STEM Education: A Qualitative Evaluation of the Vigyan Jyoti Scheme in Rural India", which has been granted an amount of Rs. 14 lakhs by the ICSSR, New Delhi. This project is expected to continue from 2024 to 2026.
- Prof. Manju Singh has been appointed as a Member of the Advisory Board of the Madhya Pradesh Journal of Social Sciences by the Madhya Pradesh Institute of Social Science Research, Ujjain.

Department of Management Studies

- The department hosted an expert lecture on "People Management and the Technology Dimension." Alumnus Alok Patnaik, Senior Director of Engineering at Dun & Bradstreet, USA, delivered an insightful session exploring the intersection of people management and technology with a focus on people analytics.



- As a part of the Innovation and Design Thinking course, the department organized a Field Visit to Bhagvan Mahavir Viklang Sahayata Samiti (Jaipurfoot) for Semester IV students on 8 February 2024.



- The department organized a cricket match on 11 February 2024 between the senior and junior students. The juniors' team emerged victorious.



- The department organized an interactive session on 6 March 2024 with Dr. Survokamal Dutta on the topic "Bharat and G21: Opportunities & Scope" for the faculty members and research scholars of the Departments of Management Studies and Humanities and Social Sciences. Dr. Dutta is a graduate of Jawaharlal Nehru Vishvavidyalaya with degrees in research, modern economic history, and economic diplomacy.
- The department's finance club organized a valuable session with Mr. Nand Kishore Ratnoo, Regional Head at Nippon India Mutual Fund, and Mayank Mundra, who collectively possess over 23 years of experience in mutual funds and stock trading.





- The department organized a guest lecture with Mr. Srikant Sree Ram, who is the head of Amazon Fresh India and has been with Amazon for over 11+ years, on the topic of “Evolving Landscape of Business Environment”.
- Iti Sisodia, an alumnus and assistant manager of HR at Jindal Steel, conducted an insightful session on human resource development.
- The department organized a guest lecture with Mr. Akshay, a data scientist at Amadeus, Berlin, Germany. With over 10 years of experience in data science, on “Predictive HR analytics and the utilization of Machine Learning and Artificial Intelligence in modern business decision-making”.

Department of Mathematics

- Dr. Geetanjali Chattopadhyay was awarded the Start-Up Research Grant (SRG) for the session 2024-2026 from the Science and Engineering Research Board (SERB), Department of Science and Technology, Government of India. This project aims to capture the yielded regions that form in the microfluidic devices used in medical applications by modelling blood flow through microchannels and solving the governing differential equations using DNS techniques.
- Dr. Priyanka Harjule was awarded the SERB-Mathematical Research Impact Centric Support (MATRICS).
- Dr. Geetanjali Chattopadhyay is working on a project to study the Formation of yielded regions in superhydrophobic microfluidic devices. This project has been granted Rs. 12.02 lakh by SERB DST Start-up Research Grant (SRG) and is expected to continue from 2024 to 2026.
- Dr. Priyanka Harjule delivered an expert lecture on the topic "ICESAT-2 ground photons retrieval using deep learning algorithm" at the Annual User Interaction Meet organized by the National Remote Sensing Centre, Hyderabad, from 12-13 March 2024. She presented the results of building height estimation and digital twin model for the urban city of Jaipur on the national platform.

Department of Mechanical Engineering

- A patent titled “An Improved Tillage Cultivator” was granted to N R N V Gowripathi Rao, Himanshu Chaudhary, and Ajay Kumar Sharma on 1 January 2024, by the Controller General of Patents, Designs & Trademarks, Government of India.
- The Department, in collaboration with the School of Engineering and Technology at Mody University, Lakshmangarh, and the University of Mauritius (UoM), jointly organized a 3-day conference titled the International Conference on Application of Recent Technologies in Science, Engineering, Management for Societal and Industrial Development (ICASEM-2024), starting on 11 January 2024. The event took place at Mody University, Lakshmangarh.

The conference was inaugurated on 11 January 2024 by Prof. N. P. Padhy (Chairman BoG and Director MNIT Jaipur), Prof. Sashi Bala Singh (President, Mody University), Prof. S. G. Deshmukh (IIT Delhi), Prof. Suresh Sethi (The University of Texas), Prof. Ravi Shankar (IIT Delhi), Prof. G. S. Dangayach (General Chair, MNIT Jaipur), Prof. D. S. Callychurn (General Chair, UoM), Prof. Prateek Bhanti (General Chair, MUST), Prof. Amar Patnaik and Dr. M. L. Meena (Organizing Secretary, MNIT Jaipur). One hundred forty-one (141) research papers were presented during these three days by researchers across the globe.



- A patent titled “Nickel Metal Powder Reinforced Aluminum Alloy Composites For Gear Applications” was granted to Prof. Amar Patnaik, Prof. I.K. Bhat and Ashwani Kumar on January 18, 2024, by the Controller General of Patents, Designs & Trademarks, Government of India.
- The department organized the 3rd International Conference on Mathematical, Engineering, and Management Sciences (3rd-ICMEMS) from 27 to 28 January 2024.



- The department organized a national workshop (Karyashala) on "Modelling and Optimization in Green Manufacturing" under the aegis of the Accelerate Vigyan Scheme of SERB-DST from 26 February to 3 March 2024. The workshop provided invaluable insights and skills to the participants, enabling them to excel in modelling within the field of green manufacturing.
- The department organized a national workshop (Karyashala) on "Sustainable Waste Management and Recycling" from 11 to 17 March 2024. The primary objective of this workshop was to enlighten all participants about waste management and recycling procedures.

Department of Metallurgical and Materials Engineering

- The department conducted a "National Workshop on Computational Materials Engineering" from 22 to 27 January 2024.
- The department conducted a National Workshop on "Advanced Materials Characterization (AMC-2024)" from 19 to 23 March 2024.
- Dr. Swati Sharma is heading a project on "Hardness evaluation of nanocomposite coating", which has been awarded funding of Rs 9.50 Lakh by R.S. Infra-Transmission Ltd. Jaipur. The project is expected to continue until 2025.
- Dr. Swati Sharma is heading a project on "Development of ultra-high hardness steel through grain refinement for automotive and defence industries - A novel approach" with the aid of CRG-DST with a funding of Rs 53.55 lakh, and the project is expected to continue until 2026.
- Dr. Kunal Borse is heading a project on "Evaluation of anti-corrosion properties of mild steel coated with waste foundry sand fines-Reinforced epoxy-based polymer matrix composite." for the year 2024, which has been awarded funding of Rs 0.36 lakh by The Institution of Engineers (India).

Materials Research Centre

- Scientific Officer Mr. Chetanya Prakash was awarded an Excellent Performance Award by the Hon'ble Director Prof. N. P. Padhy on 26 January 2024 for the year 2023-24 in the officer category, in recognition and appreciation of his contribution to the institute.



- The Material Research Centre organised an open-day program on 9 February 2024. It gave everyone a full day of access to all the labs and instruments for visits and queries regarding their capabilities and sample requirements for the equipment. This program was organised as a part of the institute's Diamond Jubilee celebration.
- Vanshika Dixit, pursuing M.Tech in the 4th semester, participated and won in the Mind Over Matter (6-month competition) organized by Tata Steels Limited. After qualifying for three examinations, she worked on the challenge of "Photocatalytic degradation of pesticides using the waste and by-products of the steel plant" under the guidance of Prof. Ragini Gupta and Dr. Sumit Sonkar from the department of Chemistry, and Dr. Shyam K. Choudhary, Dr. Vimal K. Sharma, and Navin Kumar from Tata Steels. She has been awarded Rs. 1 lakh, a certificate, and a placement offer in the R & D sector at the post of Researcher at CTC 13.11 (LPA).





Centre for Energy and Environment

- Dr. Kapil Pareek is leading a project on the Design and development of an IoT-enabled fully-automated solar-powered hydroponics growing system. The project was granted an amount of Rs. 8 lakhs by IIT Ropar - Technology and Innovation Foundation (AWaDH) and is expected to continue till the end of 2024.



Regional Academic Centre for Space

- The Regional Academic Center for Space (RAC-S) organized a national conference, "Recent Trends in Space Technology (RTST - 2024)", from 20 to 21 March 2023, as part of the Diamond Jubilee celebrations. Shri Sudheer Kumar N, Director CBPO ISRO, was present as the Chief Guest of the conference.



- MIIC and ED-Cell recently orchestrated a compelling speaker session on 10 February 2024, featuring D2C (Direct-to-Consumer) startup trailblazers Ms. Ratika Khandelwal, founder of Rooted India, Mr. Sourav Lodha, founder of KuberBox, and Mr. Abhimanyu Singh, founder of Flexible and Shark Tank fame.
- Punto Corporation Pvt. Ltd., incubated at MNIT Innovation and Incubation Centre, proudly launched its groundbreaking IoT version of the electrical safety device, "Safeon," ensuring shock-free electricity. MIIC hosted a momentous launch event on 29 February 2024, where the latest IoT version was unveiled by Punto Corporation's team and representatives from PUM Netherlands. Dr. Monica Sharma, Secretary MIIC, and Dr. Sanjay Gaur, Senior Operations Manager MIIC, graced the occasion, marking a significant leap in electrical safety innovation.

MNIT Innovation and Incubation Centre

- MIIC, in association with ED-Cell, orchestrated a dynamic Entrepreneurship event on 27 January 2024, featuring guest speakers Mr. Vikram Sharma and Mr. Jayesh Bhatt alongside the NaventureX team. The event buzzed with interactive sessions, sparking creativity and collaboration among participants. As a token of appreciation, attendees received certificates marking their commitment to innovation.





- MIIC, along with TiE Rajasthan and Metacube, organized a global pitch competition on 12 March 2024, attracting student startups from various domains. Following the pitches, students engaged with Metacube officials, gaining industry insights and career advice. This initiative highlighted the collaborative efforts to promote entrepreneurship and innovation, bridging the gap between academia and industry.
- MIIC was privileged to welcome Dr. Arvind Kumar, Scientist 'G' in Technology, Translation, and Innovation, from the Department of Science and Technology (DST), innovation and incubation processes. This visit aligns with the scheme's goal of improving school education quality and informing policy strategies. It was an enriching experience for all, fostering a culture of innovation and learning.



- The Industry-Institute Interaction (I³) program underscores the vital role of fostering robust connections between academia and industries. At the recent Industry-Institute Interaction Conclave on 19 March 2024, inaugurated by Prof. N.P. Padhy, Director of MNIT Jaipur, startups incubated with MIIC, including Climatech Environment Pvt. Ltd., Joul's Ecotech Pvt. Ltd., Punto Corporation, and Byangoma India Pvt. Ltd., showcased technology demonstrations. This initiative strengthens collaboration and innovation, driving progress in both academia and industry.



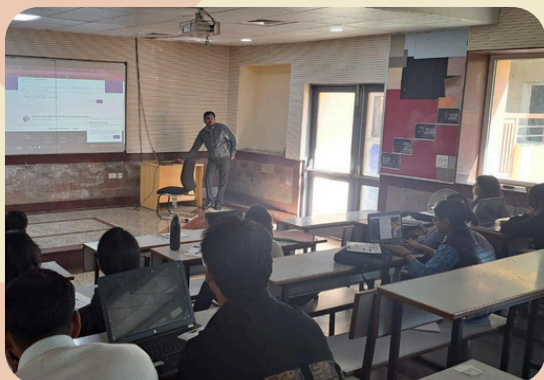
- MIIC welcomed 400 students from Government schools on 19 March 2024 as part of the PM SHRI School scheme. Through interactive sessions and tours, they explored innovation and incubation processes. This visit aligns with the scheme's goal of improving school education quality and informing policy strategies. It was an enriching experience for all, fostering a culture of innovation and learning.
- Mr. Sudheer Kumar N, Director of Capacity Building & Public Outreach (CBPO) at ISRO HQ, paid a visit to the MNIT Innovation and Incubation Centre (MIIC) on 20 March 2024. Prof. Amar Patnaik, Coordinator and Treasurer of MIIC, highlighted the centre's mission to foster innovation and entrepreneurship through a supportive ecosystem. Dr. Patnaik showcased MIIC's infrastructure, including coworking spaces and laboratories, along with its tailored startup incubation programs across various sectors.





Central Library

- On 6th February 2024, a formal orientation introduced new Research Scholars to the Central Library. It was organised in collaboration with the Department of Humanities and Social Sciences. The session covered library resources, services, and research tools, followed by a live demonstration by the Assistant Librarian, Mr. Sachin Katagi.



- An Online Training Session on "Web of Science & EndNote" was held on 15th February 2024 at Malaviya Sabhagar. The session was conducted by Mr. Vishav Sharma from Clarivate Analytics, and it aimed to enhance the research writing skills of research scholars. Dr. Rajeev Agrawal delivered the welcome address, and Mr. Sachin Katagi delivered the closing remarks.



- On 19th March 2024, 425 school students from the PM SHRI initiative visited the Central Library. Accompanied by teachers, they learned about library services and explored sections with staff guidance.



SIRE FELLOWSHIP AWARDEES



Four faculty members were awarded the prestigious SERB International Research Experience (SIRE), DST fellowship for 2023-24, enabling them to conduct research at renowned institutions worldwide. Dr. V. Subbaramaiah from the Department of Chemical Engineering visited the Department of Chemical and Life Sciences Engineering at Virginia Commonwealth University, USA. Dr. Sonal Prasad, also from the Department of Chemical Engineering, conducted research at the McKelvey School of Engineering Energy, Environmental & Chemical Engineering, Washington University, USA. Dr. Manjinder Singh, representing the Department of Mechanical Engineering, visited the Mathematical Institute, University of Oxford, UK, and Dr. Geetanjali Chattopadhyay from the Department of Mathematics pursued research at LOCIE (LabOratoire proCédés energie bâtimEnt), University Savoie Mont-Blanc, France.

Republic Day 2024





CAMPUS BUZZ

- MNIT Jaipur held its 17th Convocation ceremony on 16 March 2024 at the Open Air Theatre on the campus. The Director, Prof. Narayana Prasad Padhy, presented a report on the academic activities and achievements of the Institute. Prof. Abhay Karandikar, Hon'ble Secretary of the Department of Science & Technology, Government of India, the Chief Guest of the ceremony delivered the Convocation address. For the year 2022-23, the institute conferred 1475 degrees in total, 838 of which were undergraduate degrees, 534 Master's degrees, and 103 Doctoral degrees. Out of all the degrees awarded, 396 degrees were awarded to female students. Toppers of B.Tech, B.Arch, M.Tech, M.Planning, M.B.A. and M.Sc courses for the academic session 2022-23 were also awarded gold medals at the ceremony.

- Think India Club took charge of organizing the YouthFest 2024 from 12 to 14 January 2024. An inauguration ceremony was conducted on the birth anniversary of Swami Vivekananda, followed by various cultural, sports, and literary events over the three days. The club also organized Lohri celebrations and folk night, which was attended by a plethora of students.



- A remarkable expert talk was successfully conducted under the Industry Institute Interaction (I3) program on 15 February 2024. Mr. Gaurav Jalan conducted a session covering a variety of domains, including DPU, AI, Servers, Automotive, multiple SoCs, ASICs, and the development and packaging of IP/VIP for the students pursuing B. Tech in Electronics and Communication Engineering.





- Mr. Sanjay Kumar Gupta, an esteemed alumnus from the 2007 batch and currently serving as the General Manager of Product Development at Maruti Suzuki India Limited, shared invaluable insights into the nuanced process of new product development with practical examples drawn from the automotive manufacturing sector for the students pursuing B. Tech in Mechanical Engineering.



- A distinguished alumnus from the 1993 batch of MNIT Jaipur, Mr. Puneet Mittal, Co-Founder and Managing Director of Pratham Software Inc (PSI), visited the campus with his team on 18 January 2024 to explore the opportunities in the Artificial Intelligence domain. He met with Prof. Rakesh Jain, Dean International and Alumni Affairs, and other faculty members to discuss industry-academia collaboration and share mutual growth opportunities.



- A seminar on "Higher studies opportunities in the UK" was organized on 19 January 2024. Mr. Rohan Badigar, the guest speaker for the seminar, is a distinguished alumnus of the 2020 batch and has completed his MS in Motorsports Engineering from Cranfield University UK. He gave insights to students who aim to pursue higher education in the UK. Prof. Rakesh Jain, Dean of International & Alumni Affairs, who earned his Ph.D. from Liverpool John Moores University, UK, also offered a unique perspective on his experience in the UK.



- The Dean Student Welfare Office organized a workshop on "Mental Well-being and Addiction Prevention" on 24 January 2024. This initiative aligns with the national "Nasha Mukta Bharat Abhiyan" led by the Ministry of Social Justice and Empowerment, Govt. of India. The speaker for the event was Ms. Tvishi Sharma, a clinical psychologist registered with the Rehabilitation Council of India and the founder of Sacheta Wellness. The workshop served as a platform for students to gain insights into the complexities of mental well-being and addiction, promoting a culture of awareness and responsibility among the student body.





- To mark the celebrations of the 75th Republic Day of India, a play on the legendary nationalist and freedom fighter “Lokmanya Bal Gangadhar Tilak” was enacted on the evening of 25th January 2024 at the campus. The award-winning theatre artist Sh. Mujeeb Khan directed the play, which was performed by renowned artists in India. Shri Neeraj Kumar, Chairman at Rashtrakavi Ramdhari Singh Dinkar Nyas, delivered the keynote address and Shri Vineet Chauhan, a famous Veer Ras Poet, was the Guest of Honour for the event who also recited patriotic poems during his address. Hon’ble Director Prof. N. P. Padhy chaired the program.



- On 25 January 2024, the Honorable Governor of Rajasthan, Shri Kalraj Mishra, inaugurated the newly renovated state-of-the-art basketball complex on the Institute campus. The distinguished event was graced by the esteemed presence of Prof. N.P Padhy.



- Malaviya National Institute of Technology Jaipur signed an MoU with Alliance Francaise de Jaipur to organize French language classes for students, staff, faculty, and other members. The MoU signing ceremony was held on campus in the presence of Ms. Sanjana Sarkar, who is the Director of Alliance Francaise de Jaipur, Prof. Rakesh Jain, Dean of International and Alumni Affairs, and Dr. Madhu Agarwal, Associate Dean for National & International Affairs.





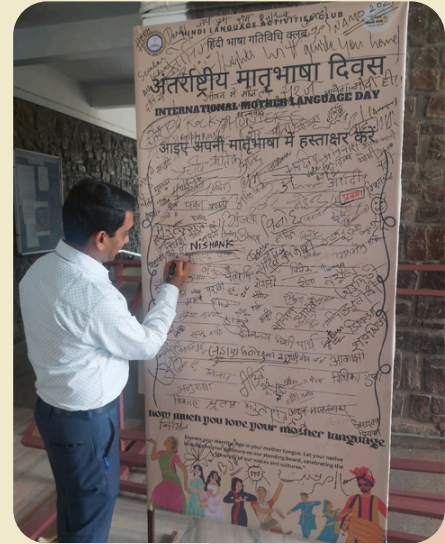
- The Alumni Conference and Networking Event titled 'Life in the Era of Artificial Intelligence' was organized on 10 February 2024 in Gurgaon, Haryana. The event aimed to explore the profound impact of artificial intelligence through expert talks and panel discussions. The event was efficiently managed by alumni Mukesh Maheshwari (2002 batch), Vivek Dev (2009 batch), and Piyush Gupta (2009 batch).



- A team of foreign delegates visited the campus on 16 February 2024, which was led by Mr. Sabu Alexander, Finance & Public Relations Officer and Ms. Mahmuda Aldeen, Program and Member Relations Officer from Shastri Indo-Canadian Institute, University of Calgary, Canada. The purpose of their visit was to facilitate internships, and they focused on outlining the details of the internship program for Canadian students from Alberta Province.



- The Hindi Language and Activity Club celebrated International Mother Language Day on 21 February 2024. A signature campaign for all faculty, staff, and students across various institute locations was organized to help promote and stay connected with our mother tongue.



- A distinguished 1994 alumnus, Prof. Avinash Kumar Agarwal from the Department of Mechanical Engineering at IIT Kanpur, delivered a guest lecture on 23 February 2024, tailored explicitly for undergraduate students in their third and fourth years of study. He shared valuable insights gained from his extensive experience in the field and offered guidance aimed at helping students navigate their academic and professional journeys effectively.





- MNIT Jaipur served as the accommodation and hospitality partner for Pink Fest 2024, held from 1 to 3 March 2024, at the Rajasthan International Centre in Jaipur. A student painting workshop, organized by the Creative Arts Club, Cultural Society, and DSW office in collaboration with Pink Fest 2024, took place from 2 to 3 March 2024. The young enthusiasts witnessed unique live paintings and received guidance from experienced artists.



- Delegates Dr. Annabelle Wolff and Dr. Raphael Lechner from Ostbayerische Technische Hochschule Amberg-Weiden, Germany, visited the campus on 6 March 2024. The purpose of their visit was to explore opportunities for faculty/student exchange, joint supervision of M.Tech/Ph.D students, joint and coordinated research projects/publications/patents, joint organization of workshops, and faculty development programs.



- Electoral Literacy Club and NSS organized a workshop on Electoral Literacy on 6 March 2024. A District Electoral Officer (DEO) was invited to conduct the session and emphasize the importance of voting.
- Delegates Prof. Takayuki Ichikawa, Prof. Hiroki Miyaoka, and Dr. Feng-qin Guo from Hiroshima University, Japan, visited the campus from 6 to 9 March 2024. The purpose of their visit was to foresee the existing MoU between MNIT Jaipur and Hiroshima University for research collaboration and student/faculty exchange.





- The institute celebrated the closing ceremony of the Diamond Jubilee Celebrations on 16 March 2024. The Dias was graced by esteemed Chief Guest Prof. M. Raisinghani, the guest of honour Sh. S.K. Kalra, Prof. S.C. Agarwal, Director Prof. Narayana Prasad Padhy, Prof. Rakesh Jain (Convenor & Dean International and Alumni Affairs), Prof. Upender Pandel (Co-Convenor), and Prof. Dilip Sharma (Co-Convenor). The event included the felicitation of more than 70 former faculty and staff members for their outstanding contributions to the institute. The ceremony continued with the unveiling of the magazine and featured a short film. Subsequently, the ceremony was complemented by a cultural performance and a festive dinner.



- The Wellness Club, in commemoration of the International Day of Happiness, partnered with United India Insurance Company Limited to host a health check-up and wellness camp on 20 March 2024. AMRC Park Hospitals provided the medical experts and team, and the event received a tremendous response, with over 1000 individuals availing diverse services, including dental care, eye check-ups, nutritional guidance, psychiatric support, and comprehensive physical examinations.

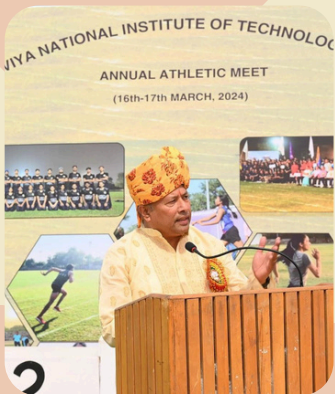




- MNIT Jaipur proudly hosted its Annual Athletic Meet from 16 to 17 March 2024. The dignified inaugural ceremony, graced by the Hon'ble Director Prof. N.P. Padhy and Prof. Mahesh Kumar Jat marked the commencement of two days of spirited competition among students and staff. Athletes showcased their skills across various events, from the eagerly awaited 10000m men's race and 3000m women's race to captivating field events such as javelin throw, hammer throw, and long jump. The closing ceremony was graced by esteemed guests, including Chief Guest Prof. B.L. Swami, Guest of Honour VK Dullar, and Dean of Student Welfare Prof. Mahesh Kumar Jat on 17 March 2024. It featured 4x100m relay events and a tug-of-war competition.



- Under the umbrella of the PM Schools for Rising India (PM SHRI) initiative, a total of 425 students, comprising 100 and 325 students, respectively, from Govt. Girls Sr. Sec. School Kotputli and Govt. School Sub Nodal Toonga, accompanied by their teachers, embarked on an exposure of the campus on their visit. During their visit, they had the opportunity to delve into various labs, including the National Earthquake Testing Facility (NETF), Materials Research Centre, MNIT Innovation and Incubation Center (MIIC), Civil Department, and Artificial Intelligence Lab. Additionally, they explored the Computer Lab, Library, and recreational facilities such as the sports complex.





- Dr. Ila Sharma spearheaded the RoadMap Session and the Soft Skills Program on 7 March 2024, organized by the Training and Placement Cell, in collaboration with the Departmental Placement Club of Electronics and Communication Engineering. The programme orchestrated an enlightening 'Awareness and Roadmap Session' tailored for first and second-year students of the department.

Unnat Bharat Abhiyan

- On 26 January 2024, the Unnat Bharat Abhiyan (UBA) team from the campus visited Tamaria village to participate in the Republic Day celebration. The event was coordinated by Dr. Amit M. Joshi, Faculty Coordinator, Dr. Himasnhu Yogi, Faculty Coordinator, Dr. Yash Mittal, UBA-RCI Faculty Coordinator, and students Ayush and Shradhanand Verma. During the visit, the village sarpanch engaged in discussions with the UBA team regarding several issues, expressing commitment to addressing them. Additionally, the MNIT UBA team joined the Republic Day ceremony at Tamaria Village High School, where the Principal highlighted the school's needs and requested MNIT's support in providing digital learning facilities and skill development courses for the students.

Blitzschlag- Cultural Fest

Blitzschlag '24, the annual cultural fest of MNIT Jaipur, was held from 2 to 4 February 2024. From the exhilarating dance battles of Ramba Samba to the thought-provoking debates and artistic masterpieces in the Pronites, the three-day extravaganza ignited the spirit of the institute's community. With the theme "Padharo Mhaare Fest," attendees were treated to a diverse array of entertainment and cultural experiences such as workshops, exhibitions, quizzes and much more.

This year's flagship event, Tamasha, was organized by the drama society 'Drama Is Life'. The participating teams showcased their acting prowess, leaving the audience in awe.

The first 'Pronite' was held on 2 February 2024, where the stage was taken by DJ Ravator, one of India's most celebrated EDM artists. The crowd danced joyfully to the beats of the artist, marking a blockbuster start to the fest.

This edition of Blitzschlag introduced exciting new events such as the IPL Auction by the Entrepreneurship Development Cell and Family Feud, Acta Diurna and Escape Room by The Mavericks, drawing enthusiastic participation from the students.

This year, the first-ever Model United Nations debate was conducted by The Debating Club. Over 50 students from different colleges participated in the competition. The MUN was chaired by Mr. Vedansh Bhardwaj, Ms. Radha Priyanka and Ms. Drishti, who are the top MUNers in the country with experience of over 100+ MUN debates.

The second 'Pronite', held on 3 February 2024, saw a soulful performance by the Yugm Band. Following their act, the atmosphere crackled with energy as DJ TrapperX took up the charge of DJ Hour.

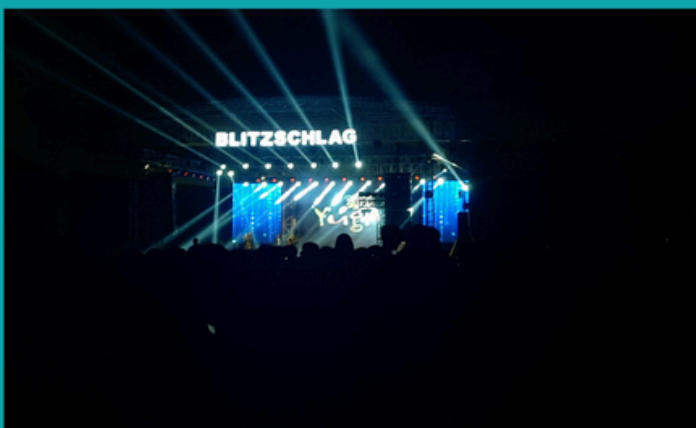
Blitzschlag came to a memorable close with a blockbuster concert by the Sachin-Jigar duo, whose performance of hits like 'Chunar' and 'Bezubaan' not only mesmerized the audience but also evoked childhood nostalgia.

Blitzschlag 2024



Day 1

Blitzschlag 2024



Day 2

Blitzschlag 2024



Day 3



MNIT Sports Tournament (MST 2024)

- The tournament took place from 16 to 18 February 2024, showcasing a vibrant array of sports activities across the campus. Led by the esteemed guidance of Prof. N.P. Padhy, Director MNIT Jaipur, and Dean Student Welfare, Prof. Mahesh Kumar Jat, the event was a testament to athletic prowess and camaraderie. From competitions including football, cricket, basketball, volleyball, kabaddi, gym tournaments, chess, badminton, table tennis, lawn tennis, Tug of War, Satoliya, and box cricket, the tournament had something to offer for everyone.
- MST welcomed a total of 16 colleges, including NIT Delhi, NIT Uttarakhand, Manipal University Jaipur, Government Mahila Engineering College Ajmer, MBM Jodhpur, and more, showcasing a diverse participation. Adding to the excitement were two vibrant cultural nights: 'Jugnoo - The Firefly' mesmerized the audience on 16 February 2024, while the ICCR Sponsored Bhangra Night by 'Bhola Panchi International Bhangra Group' lit up the stage on 17 February 2024. The grand finale occurred on 18 February 2024, featuring the closing ceremony with Prof. M.P. Poonia as the chief guest and Prof. Rakesh Jain as the guest of honour, marking the conclusion of MST'24 with grace and distinction.



SIDDHANT 2.0-The Math Fest

- MNIT Jaipur hosted the highly anticipated "Siddhant 2.0 - A Mathfest" on 5 March 2024. The ceremony was graced by the esteemed presence of Prof. N.P. Padhy, Director, MNIT Jaipur, alongside luminaries including Prof. Mahesh Kumar Jat, Dean Student Welfare, Prof. Rakesh Jain, Dean International and Alumni Affairs, and Dr. Vatsala Mathur, Head of Department, Mathematics. The event included the Varahamihir Rangoli Competition, Ramanujan Poster Competition, Bhaskaracharya Quiz, Brahmagupta MathArt, Mathbola, Aryabhatta Seminar Competition, and the Prof. K. C. Gupta Memorial Lecture, which was attended by more than 200 young Math enthusiasts. Activities like Escape Room were also held to add fun, and the day concluded with prizes and certificate distribution.





STUDENT CORNER

In Conversation with Surbhi Jain

as told by Manya Bajaj (Newsletter Team)

***"Success is the sum of small efforts,
repeated day in and day out."***

- Robert Collier

With this issue of the MNITJ 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, Surbhi Jain, a fourth-year student pursuing B.Tech in Computer Science and Engineering (CSE), has excelled academically with a CGPA of 9.59 and landed a prestigious placement at DE Shaw.

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. How did you maintain a high GPA while juggling academics, extracurriculars, and personal commitments during college?

Keeping a good GPA is easier when approached strategically. Understanding the significance of early academic years, I prioritized consistent effort from the start. Balancing time between studies and extracurriculars is key. I devised a daily schedule



(planning), allotting specific hours to various tasks. This method enabled me to maintain my GPA without sacrificing involvement in activities like being an SPC and playing basketball.

2. What drove you to pursue a placement at DE Shaw, and how did you prepare for the interview?

Upon entering college, the buzz about DE Shaw offering the highest packages piqued my curiosity, prompting me to delve into the company's ethos. Driven by its renown for pioneering research in finance and technology, I set my sights on securing a placement at DE Shaw.

In readiness for the interview, I immersed myself in Data Structures and Algorithms through platforms like Leetcode, engaged in coding contests on Codechef, and tackled technical questions and coding challenges rigorously.



Additionally, I honed my problem-solving abilities and communication skills through mock interviews, ensuring I was well-prepared for the opportunity.

3. What are your goals in software engineering, and how will you innovate in the industry?

In software engineering, my aspirations center on perpetual learning, making meaningful contributions to impactful projects and innovating to tackle real-world challenges. I strive to harness emerging technologies and methodologies to craft efficient, scalable software solutions that enhance user experiences and bolster business outcomes. To foster innovation, I prioritize staying abreast of industry trends, engaging in interdisciplinary collaboration to brainstorm inventive solutions, and seizing opportunities to experiment with cutting-edge technologies. Currently, I'm immersed in AI, the latest industry trend, to further enrich my skills and stay ahead in the field.

4. How do you stay motivated and excel, especially during tough times?

I focus on self-care by doing things that recharge me, like exercise, hobbies, and spending time with loved ones. I also practice mindfulness or meditation to stay grounded and resilient.

5. Who has been your constant support from the beginning to help you to rise to success?

Life has its ups and downs, but during tough times, I find comfort in my faith, believing that God guides me. Family and friends provide crucial support, while motivation from seniors and teachers helps me overcome challenges.

6. Any tips for students aiming for academic and career success in software engineering?

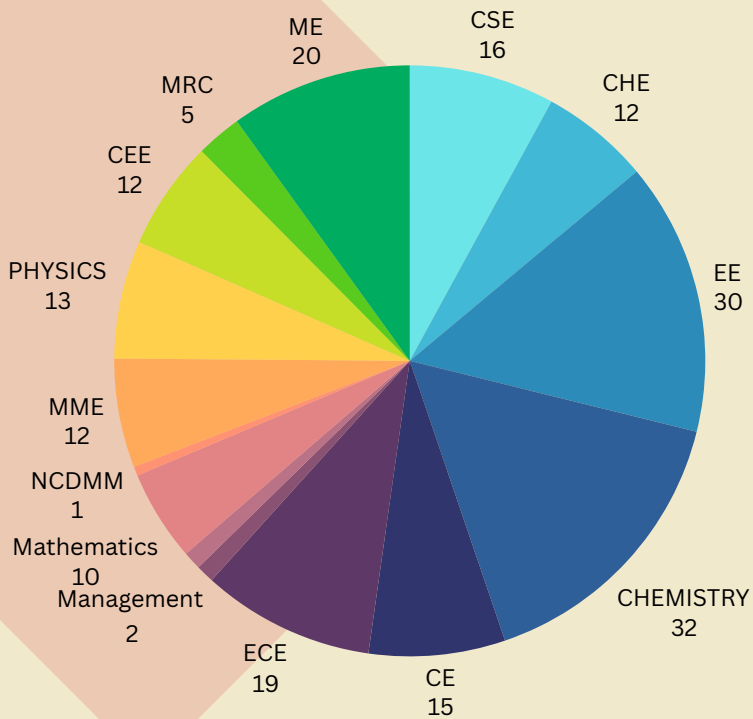
It's essential to stay updated on emerging technologies. Academically, prioritize Data Structures and Algorithms (DSA), Object-Oriented Programming (OOPS), Database Management Systems (DBMS), Computer Networks (CN), Operating Systems (OS), and core Computer Science (CS) fundamentals. If you're passionate about development, hone your skills in areas like web development, machine learning, or app development.

Above all, prioritize your health. Embrace college life, have fun, and strike a balance between academic pursuits and personal well-being. Enjoy the journey while striving for excellence in both your studies and your overall well-being.

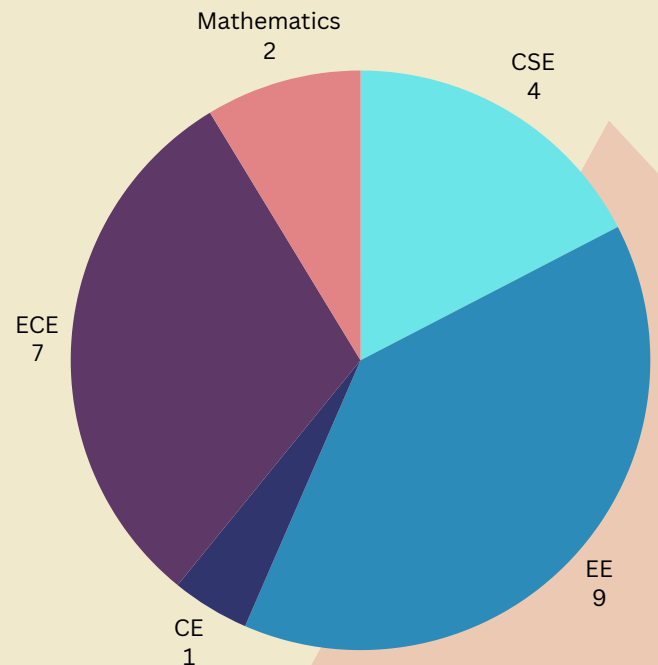


Research Publications (2024)

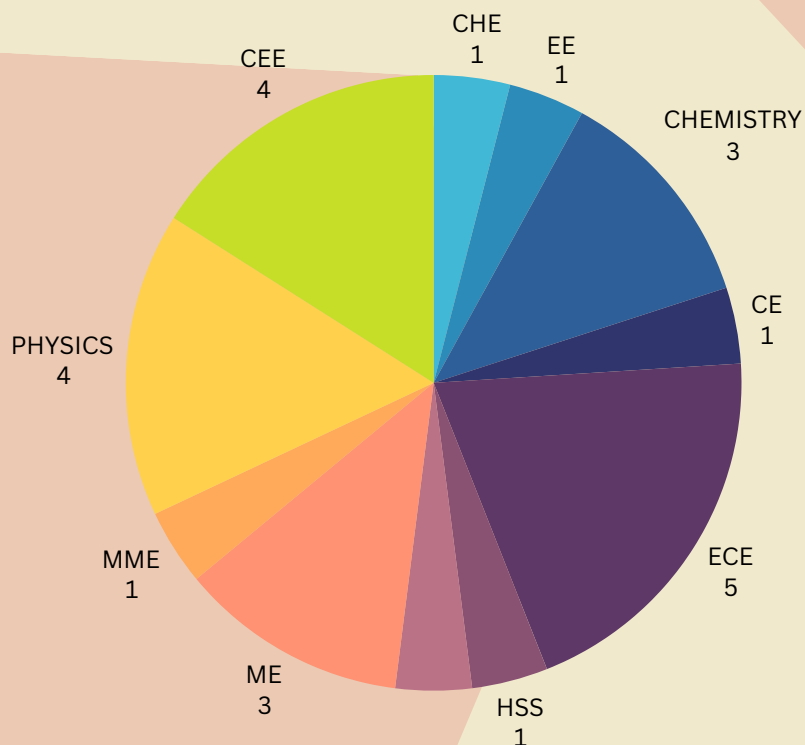
JOURNAL PUBLICATIONS



CONFERENCE PUBLICATIONS



BOOK/CHAPTERS PUBLICATIONS



Editorial Team



BACK (Left to Right): Moordhan Songade, Pratham Tharwani, Ritik Garg, Dushyant K Paliwal, Shivansh Rai, Puneet Jha, Pratyush Bhosekar, Subhrajit Roy, Rohan Srivastava
MIDDLE (Left to Right): Smriti Dadhich, Manya Bajaj, Vikram Palluvar Kumar, Jatin Thakur, Vineet Singh Parihar, Kunal Thapliyal, Prem Anubhav, Deepa Batra, Shubhangi Bhatnagar
FRONT (Left to Right): Apeksha Pareek, Dr. Neetu Kumari, Dr. Aakanksha Kataria, Dr. Geetanjali Chattopadhyay, Dr. Niraja Saraswat, Dr. Priyanka Harjule, Dr. Menka Yadav, Dr. Surajit Ghosh, Akansha Joshi

Editorial Team

Akansha Joshi
(PhD. Dept of MS)

Ritik Garg
(PhD. Dept of HSS)

Apeksha Pareek
(PhD. Dept of HSS)

Deepa Batra
(PhD. Dept of HSS)

Shubhangi Bhatnagar
(PhD. Dept of HSS)

Smriti Dadhich
(PhD. Dept of HSS)

Pratham Tharwani
(B.Tech, VI Sem, CSE)

Jatin Thakur
(B.Tech, VI Sem, CSE)

Subhrajit Roy
(B.Tech, IV Sem, CSE)

Vikram Palluvar Kumar
(B.Tech, IV Sem, CSE)

Manya Bajaj
(B.Tech, II Sem, ECE)

Prem Anubhav
(B.Tech, II Sem, ECE)

Rohan Srivastava
(B.Tech, II Sem, MME)

Chesta Soni
(B.Tech, IV Sem, MME)

Vineet Singh Parihar
(B.Tech, II Sem, EE)

Kunal Thapliyal
(B.Tech, II Sem, EE)

Design Team

Moordhan Songade
(B.Tech, VI Sem, CSE)

Dushyant K Paliwal
(B.Tech, VI Sem, CSE)

Puneet Kumar Jha
(B.Tech, II Sem, Chemical Engineering)

Shivansh Rai
(B.tech, II Sem, EE)

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)