



MINITJ NEWS

the quarterly news magazine

Director's Message

I congratulate the MNIT Jaipur faculty, staff, students and alumni for the prestigious ranking, **23rd nationally and 544th globally**, it achieved in SCIMAGO Institutions Rankings. It is a proud milestone in the journey of excellence that MNIT aims at. Another feather to the cap was the conferment of the prestigious S.S. Bhatnagar award to Dr Avinash Agarwal, an alumnus of 1994 Mechanical engineering batch, who is currently a professor at IIT Kanpur.

This quarter marked the beginning of yet another academic session and after the summer break, the campus came to life with students and their activities like admissions, orientation and mentorship programs. It is a pleasure to observe the enthusiasm, curiosity and awe in the young faces of the newcomers and confidence and pride in their mentor students, who strive to make their juniors comfortable with the new surroundings through various orientation and cultural events. As ever the air in this quarter was full of freshness.

The MNIT campus has been set abuzz with research and training programmes on Proposal writing methods and LaTeX workshop, Training the Trainers workshops, Occupant productivity in Green Building, Eco sustainability, Nanofabrication Technologies, curriculum improvements and developments in various departments/centers. At the same time it proved to be the best time for faculty to make use of the summer vacations to enhance their academic and research pursuits by acquiring and presenting their knowledge at both national and international forums via conferences, seminars, training programmes, lectures etc. MNIT also provided a platform to the experts/alumni from India and abroad to deliver their talks on diverse areas and adding value to our existing knowledge base.

The celebration of 70th Independence Day fortnight was marked with several activities like slogan writing, essay and debate competitions, rangoli and card making, dramatics, music and patriotic songs, which filled the hearts of all with national pride and glory. The campus oriented activities like celebration of international yoga day, cleanliness and plantation drives, alumni day and motivational talks were some of the events of the quarter that deserve mention.

In sum, I would affirm that MNIT continued to take giant strides during the quarter, which has enabled it acquire a distinct position in national/global rankings thanks to the contribution of everyone connected with it.

Jai Hind

Prof. A. B. Gupta



Vision

To create a center for imparting technical education of international standards and conducting 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 reorganize 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.



Workshops Conferences/ Training Programmes/ Short Term Courses Conducted

A one-day workshop **Writing a Research Paper** was organised by the **Department of Humanities and Social Sciences**, in association with ELTAI, Rajasthan, on June 27, 2016. The workshop covered important aspects of research writing like plagiarism, writing for journals, publishing etc. The Coordinator of the workshop was Dr. Nupur Tandon, Head, Department of Humanities and Social Sciences. Prof J.N Sharma, Prof Rajul Bhargava, Dr.NupurTandon, Dr.Shaila Mahan and Dr. Sanjay Arora were the key speakers.



Department of Mathematics hosted a two day workshop **LaTeX for Research** on July 23-24, 2016. The workshop aimed to provide a comprehensive theoretical and hands on practical experience on LaTeX to the beginners. The organizers of workshop were Dr. Rashmi Jain and Dr. Ritu Agarwal.

The workshop started with the introduction to LaTeX and consisted of several rigorous sessions on the topic. The participants were from different parts of the country and abroad, viz. Uttarakhand, Madhya Pradesh, Haryana, Gujrat, Riyadh etc.



The typesetting system offers programmable desktop publishing features and extensive facilities for automating most aspects of typesetting and desktop publishing, including numbering and cross-referencing of tables and

figures, chapter and section headings, the inclusion of graphics, page layout, indexing and bibliographies. The topics covered during the sessions were: Making simple document, writing mathematical symbols and equations, making graphs and including them in the document, bibliography and cross-reference management, making presentation using beamer class and the other required commands.

A day long workshop **Occupant Productivity in Green Buildings** was organized by the **Centre for Energy and Environment** in association with University of Salford-UK, ASHRAE, ISHRAE, IGBC, and ISLE on July 23, 2016.

A training on software of potentiostat was organized by **Department of Metallurgical and Materials Engineering** on July 30, 2016. The training students were trained in the field of Corrosion Engineering and the training was organized by Dr. R.K. Duchaniya.

The Department of Chemical Engineering organized a half day Seminar to celebrate the birth anniversary of great Chemist & Chemical Engineer, Acharya P. C. RAY on August, 3 2016. The main topics and speakers were **Acharya P C Ray - A Nationalist Scientist** by Shree Jayant Shashtrabuddhe from Vigyan Bharti, Jaipur and **Contribution of Chemistry in Eco-sustainability** by Dr. Alka Sharma from Raj. University. Dr. Madhu Agarwal was coordinator for this program.

A three day workshop **A Training of Trainers Workshop** was organized by fAIRCONDITIONING under the aegis of c-BALANCE, Pune and **Department of Architecture and Planning** from August 5-7,2016. The workshop aimed at sustainability in the architecture curricula. Faculty of various **colleges** from Jaipur participated in this workshop. On day one of training of trainers workshop, Mr. Vivek Gilani, the chief mentor, introduced fAIRCONDITIONING program and Academic Curricular Integration Project (ACIP). He discussed the key concepts like Heat Transfer in Buildings, Psychometrics, Climate Analysis, Thermal Comfort, Passive Building Design and Fundamentals of Solar Geometry. On second day of the workshop talk about 'Best Practices in Sustainable Architecture Curricula-Integration',

Distinguished Visitors/ Expert Lectures in the Institute/ Departments

demonstration of 'Classroom Teaching Aids' across all teaching formats and virtual teaching aids like websites, MOOCs, freeware software's tools from Meta portals were included. Building Energy Modelling Tools, Sun Angle Calculations, Weather Data, LCA Tools, etc. were discussed. Mr. Suresh Vaidya Rajan, an eminent architect practitioner and researcher, showcased pictorial and live demonstration of Physical Teaching Aids (scale models) suggested for use by teachers as part of lesson plans for passive design, building physics and sustainable cooling pedagogy. On third day of this workshop the process of identifying relevant educational objectives (Bloom's taxonomy) and integrating the spectrum of systems of learning (associative, indirect + interactive, experiential, co-operative, and project-based) into lesson plans were described.

A short-term **Train-the-Trainer** programme was organised by the **Department of ECE**, from August 16-18, 2016, in association with Telecom Sector Skill Council (TSSC) and Viavi Solutions India, under the aegis of EICT Academy of MNIT Jaipur. Mr. P. K. Agarwal, Advisor (Operations), DoT (Retd) and Former Director (Planning), Bharat Broadband Network Ltd (BBNL) was



the Chief Guest for the Inaugural function. Prof. V Sinha, Academic Chair E&ICT Academy, MNIT Jaipur was the Guest of Honour. The inaugural function was presided over by Prof. A. B. Gupta, Director, MNIT Jaipur. The programme was coordinated by Dr Vijay Janyani.



An INUP Familiarization Workshop **Nanofabrication Technologies** was organized by the **Centre for Energy and Environment** from 26-27 Aug, 2016. The workshop was coordinated by Dr. Kapil Pareek Dr. Amartya Chowdhury.

An invited talk **Particulate composites and sandwich structures; modelling and development of multifunctional micro-and nano-composite materials** by Dr. Nikhil Gupta, New York University, USA was organized by the **Centre for Energy and Environment** on July 13, 2016.

The Department of Chemical Engineering organized an invited lecture by Prof. A. K. Dalai from University of Saskatchewan, Canada on July 15, 2016 on the topic **Development of Novel CNT supported Catalyst for Fischer Tropsch and higher Alcohol Synthesis**. Prof S. P. Chaurasia was coordinator for this program.

An invited talk **Developing smart, sustainable and healthy cities: Meta principles and examples of action** by Prof. Anu Ramaswami, University of Minnesota, USA was organized by the **Centre for Energy and Environment** on July 18, 2016.

Department of Civil Engineering organised lectures by Mr. Igor Sirnik and Ms. Solen le Clech, Research Scholars from



Universite Rennes 2, France on August 1, 2016. Mr. Igor delivered lecture on **Spatio-Temporal Variability Analysis of Temperature and Future Scenarios in Viticulture**. He discussed the temperature

analysis during the last five decades on the study site Brda in Slovenia and the comparative analysis of the observed data and interpolated data given from world climate data base. Mr. Igor discussed the influence of the Mediterranean sea on the local climate and future solutions for adaptation of the vine as an answer to climate change on local scale.



Ms. Solen delivered a lecture on **Mapping ecosystem services to analyze the human-nature relations in the context of the**

amazonian pioneer front : Critical analysis of an environmental management tool. She explained that, increasing human needs have greatly altered the ecosystems; as a result, biodiversity is declining. Her study area was Amazon forest, Brazil. She collected satellite images at high and moderate spatial resolution. Statistical methods were implemented in order to map indicators of ecosystem services. Mapping the supply and



demand for services, assesses threats to them, and estimates economic values may help to develop the framework to underpin the wise use of biodiversity and other natural resources. Lecture was attended by about 20, Ph.D. and M.Tech students of Civil Engineering department. Lectures were followed by discussions during which Mr. Igor and Ms. Solen shared their experience of working in Slovenia and Brazil. The events were coordinated by Prof. Rohit Goyal.

Dr. Alakesh Manna, Professor & Head, Mechanical Engineering Department, PEC University of Technology, Chandigarh delivered guest lectures on **Advanced Manufacturing Technology for Student's Projects and Measurement and Mechatronics system in Manufacturing** on August 12-13, 2016. The visiting professor also interacted with the research scholars of the Advanced Manufacturing & Mechatronics lab and visited



other central facilities of the institute.

Department of Mechanical Engineering organized and invited lecture on **Advanced Engineering Optimization through Intelligent Techniques (AEOTIT)** on August 19, 2016. More than 30 M.Tech students, PhD



scholars, and faculty members benefitted from the insights on the AEOTIT delivered by Prof. R.V. Rao, Professor of Mechanical Engineering, SV NIT, Surat, who has also developed TLBO and JAYA algorithms in 2011 and 2015. The event was coordinated by Dr. Himanshu Chaudhary.

An invited talk Plasma Nitriding for students



was conducted in the **Department of Metallurgical and Materials Engineering** on August 23, 2016

and was coordinated by Prof. A. K. Bhargava and Dr. S. K. Gupta by Shri Ghanshyam Jhala. The speaker discussed the theoretical and practical aspects of plasma nitriding and its advantages over the conventional process of nitriding. The talk was attended by students, faculty and technical staff of the department and it was highly enlightening and interactive.



An invited talk on Solar Technology by Ms. Lucinda Gibbs, First Solar, USA was organized by the **Centre for Energy and Environment** on August 26, 2016.

Visit/ Expert Lectures and Research presented by Institute Faculty

Prof. Rohit Goyal (Department of Civil Engineering) visited University of Illinois, Urbana-Champaign in the first week of June, 2016. During the visit he discussed with Dr Praveen Kumar and other faculty members and staff of UIUC many different issues relating to research collaboration, joint supervision, establishment of research facility etc.



Prof. Goyal attended the **Eighth International Conference on Environmental Science and Technology** being organized by the American Academy of Sciences from June 6 -10, 2016 at Hilton Hotel, Houston, Texas, USA and presented his research paper which was **awarded the 3rd best outstanding paper award**.



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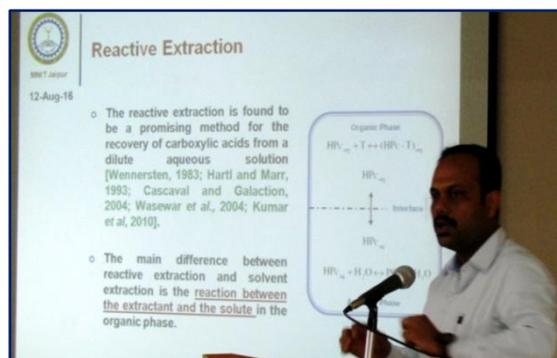
Dr. Nitin Gupta (**Department of Electrical Engineering**) attended a Short Term Course conducted by Department of Electronics & Electrical Communication Engineering (E & ECE), Indian Institute of Technology Kharagpur on Embedded System Design during June 20 - 24, 2016.

Expert lectures were delivered by Rajeev Dohare (**Department of Chemical Engineering**) on Optimization techniques in engineering research and GUI development in matlab at KNIT Sultanpur on July 14-15, 2016 at the two weeks faculty development program sponsored by AICET.



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Dr. Dipaloy Datta (**Chemical Engineering Department**) delivered an invited expert lecture on **Reactive Extraction: An Extraction Accompanied with Reaction in a Refresher Course in Conventional and Advanced Extraction Processes** organized by Shroff S. R. Rotary Institute of Chemical Technology (SRICT), Ankleshwar, Gujrat on August 12, 2016.



Dr. Sandeep Chaudhary (**Department of Chemistry**) delivered an invited lecture entitled **Recent developments in the Chemistry and biology of Antimalarial drug Artemisinin** at the National Conference on **Organic Chemistry in Sustainable Development: Recent Advances and Future Challenges** held at Department of Chemistry, Birla Institute of Science and Technology (BITS) Pilani, Rajasthan India on August 29-30, 2016.

Dr. Sudhir Kashyap (**Department of Chemistry**) delivered an invited lecture entitled, **Stereoselective Glycosylation: Synthesis of Mannopyranosides from Glycals** in a National Conference on Organic Chemistry in Sustainable Development: **Recent Advances and Future Challenges**, organized by the Department of Chemistry BITS Pilani during August 29-30, 2016.

Prof. S. P. Chaurasia delivered an invited lecture **Vacuum Membrane Distillation : An Effective Technology for Water Purification** at MANIT Bhopal on August 29, 2016.

Faculty Achievement/ Awards/ Honours

MNIT Jaipur has been accepted as an official member of the International **Belle-II Collaboration** on June 20, 2016. The membership was represented by Dr. Kavita Lalwani (**Department of Physics**). Belle II is a next-generation high precision B factory at the Japanese **High Energy Accelerator Research Organization (KEK), Tsukuba**. It will explore the New Physics Beyond the Standard Model.

Dr. Harlal Singh Mali (Department of **Mechanical Engineering**) was invited as a Jury member on June 28- 29, 2016 at one week Autodesk Boot Camp held for nationally selected students at Dayanand Sagar University in Bangalore from 24 - 29 June, 2016 on the theme "Design Now". At boot camp the students modeled, engineered, submitted and presented their project designs in front of a jury for the national selections.

Prof. S. P. Chaurasia (Department of **Chemical Engineering**) has been elected as Chairman of Jaipur Regional Center of Indian Institute of Chemical Engineers w.e.f. 1st July 2016.

Dr. Sandeep Chaudhary (Department of **Chemistry**) was considered for inclusion in the Editorial Board Member of "**Chemical Biology Letters**" on July 3, 2016.

Prof. P R Soni (Department of **Metallurgical and Materials Engineering**) was invited by **UPSC**, New Delhi to act as Adviser in the recruitment board in July, 2016.

Dr. Vinod Kumar (Department of **Metallurgical and Materials Engineering**) has been selected as Guest Editor for a Special issue "**Corrosion of Magnesium Alloys**" of Journal Metals (Impact Factor=1.54)'.
Dr. Sandeep Chaudhary (PI), and Dr. Jyoti Joshi (Co-PI), (Department of **Chemistry**) have been sanctioned a DST- NRF Indo-South Africa Joint research Project entitled **Development of innovative Indigenous knowledge system (IKS)-based new cosmetic raw material: Isolation, extraction and chemical profiling of melanin biosynthesis pathways-based natural compounds from Indian and South-African medicinal plants** by DST, New Delhi and National Research Foundation (NRF), South Africa Federation. The duration of Project is 3 years and the total sanctioned amount including overhead charges is approximately Rs. 36,00,000.00/- to Indian Side.

Prof. S. P. Chaurasia (Department of **Chemical Engineering**) has been appointed as Adjunct Professor in the Department of Chemical & Biological Engineering at Univ. of Saskatchewan for Five years.

Research Activities/ Projects

Projects

A research project entitled **Biomass to biogas** has been sponsored by DST to Dr. Vivekanand (**Centre for Energy and Environment**).

A research project **Automation of Scheffler dish tracking** has been sponsored by MNRE to Prof J Mathur(PI) & Dr. Vashi Mant Sharma-Co PI (**Centre for Energy and Environment**).

A research project **Development of flexible supercapacitors for flexible and wearable electronics** has been sponsored by DST to Dr. Kapil Pareek (**Centre for Energy and Environment**). Funding agency is SERB-DST under ECR up to 45 Lakh.

A consultancy project entitled **Advice on upgradation of effluent treatment plant** has been sanctioned to Dr. Vivekanand, Dr. Sanjay Mathur & Dr. Kapil Pareek (**Centre for Energy and Environment**)

A research project entitled **Quenching behavior of bottom flooded molten pool** has been sanctioned by BRNS, BARC (DAE) to Dr. R.K. Duchaniya (Department of **Metallurgical and Materials Engineering**). The sanctioned grant is Rs 35 lakhs for the three years.

One sponsored project **Novel synthesis and formability of ultrafine grained Ti-46Al-1B (at%) alloy** has been approved for funding by Science and Engineering Research Board (SERB), Department of Science and Technology (DST) under scheme Early Career Research Award to Dr. Vijay Navaratna Nadakuduru (**Department: Metallurgical and Materials Engineering**)

Dr. Sandeep Chaudhary (PI), and Dr. Jyoti Joshi (Co-PI), (**Department of Chemistry**) have been sanctioned a DST- NRF Indo-South Africa Joint research Project entitled **Development of innovative Indigenous knowledge system (IKS)-based new cosmetic raw material: Isolation, extraction and chemical profiling of melanin biosynthesis pathways-based natural compounds from Indian and South-African medicinal plants** by DST, New Delhi and National Research Foundation (NRF), South Africa Federation. The duration of Project is 3 years and the total sanctioned amount including overhead charges is approximately Rs. 36,00,000.00/- to Indian Side.

Research Papers

Research paper entitled **Study the radiation damage effects in Si microstrip detectors for future HEP experiments** authored by **Kavita Lalwani**, Geetika Jain, Ranjeet Dalal, Kirti Ranjan, Ashutosh Bhardwaj, published in *Nuclear Instruments and Methods in Physics Research Section B*, Volume 379, 15 July 2016, Pages 262–264.

Research paper entitled **Polycarbonate based three phase nanocomposite dielectrics** authored by P.K. Sain, R.K. Goyal, **Y.V.S.S. Prasad** and **A. K. Bhargava**, published in *Mater. Res. Express* 3 (2016) 085016.

Research paper entitled **Synthesis, characterization, thermal conductivity and sensitivity of CuO nanofluids** authored by Ravi Agarwal, Kamlesh Verma, Narendra Kumar Agarwal, **Rajendra Kumar Duchaniya**, Ramvir Singh, published in *International Journal of Applied Thermal Engineering* ISSN: 1359-4311.

Research paper entitled **Measurement and Prediction of Thermal Conductivity of Nanofluids Containing TiO₂ Nanoparticles** authored by Kamlesh Verma, Ravi Agarwal, **Rajendra Kumar Duchaniya**, Ramvir Singh published in *Journal of Nanoscience and Technology* ISSN: 1533-4880.

Research paper entitled **Study of Corrosion Behavior of Ni-P-TiO₂ Nanocomposite Coating on Mild Steel Deposited by Electroless Deposition Process** authored by Komal Yadav, Vibha Uttam, **Rajendra Kumar Duchaniya**, published in *Journal of Materials Science & Surface Engineering* Vol. 4 (4), 2016, pp 410-414.

Research paper entitled **Decentralized Solar Power for Rural Electrification in India: A Review** authored by Boola Choudhary and **Dipti Sharma** published in *International Journal of Latest Technology in Engineering, Management & Sciences* Vol. V Issue VIII, August 2016, ISP-ISSN: 2278-2540.

Research paper entitled **A pre-lithiated phloroglucinol based 3D porous framework as a**

single ion conducting electrolyte for lithium ion batteries authored by R. Rohan, **K. Pareek**, Z. Chen, H. Cheng published in *RSC Advances* Vol. 6 / 53140 / 2016 ISBN: 2046-2069.

Student & Other Activities

Four under graduate engineering students of the Ohio State University, Columbus and the Colorado State University, Fort Collins worked in Advance Manufacturing & Mechatronics Laboratory of the Mechanical Engineering Department for eleven weeks on Jaipur Foot from May 9, 2016 to July 29, 2016. Invented in India By Prof. P.K. Sethi in 1971, Jaipur Foot has risen to its popularity and utility as product by reaching to masses as far as 26 countries mainly to low income group lower limb amputees. However, to improve it further the research team consisting of Dr. Tammy L. Haut Donahue, of Colorado State University, Dr. Lisa Abrams, & Dr. Sheryl Sorby, of the Ohio State University,



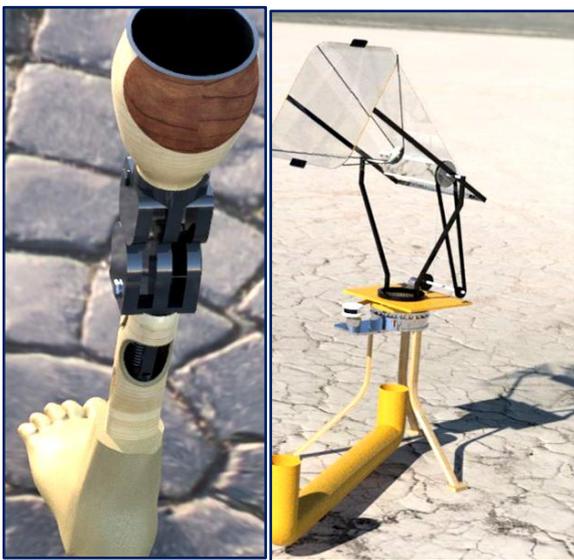
Dr. Harlal Singh Mali, of MNIT Jaipur and Dr. Anil Jain of SDMH Jaipur proposed three main objectives: decrease the overall weight of the foot, facilitate the development of a mass production model, and to maintain biomechanical responses in the foot while improving the longevity of the product. The student team comprised of mechanical, metallurgical, industrial and bio-medical engineering streams to work on three sub-objectives in the second year of this three-year project. Three undergraduate and one graduate student of MNIT Jaipur also joined on the project this summer.



Jitendra Jaisawal and Jitesh Jangir student of B Tech Mechanical Engineering 3rd year were selected for one week Autodesk boot camp. The Boot Camp was held at Dayanand Sagar University in Bangalore from 24 - 29 June 2016. The Boot Camp was based on the theme of "Design Now". At boot camp the students modelled, engineered and submitted their project designs using Fusion 360. Jitendra Jaisawal designed the improved design of Jaipur foot and Jitesh Jangir designed solar harnessing system. Faculty mentor of these students and jury member of the program was Dr. Harlal Singh Mali, **Department of Mechanical Engineering**



This year (2016), following students of M.Sc. final year of the Department of Mathematics, MNIT Jaipur chose to go for academic value addition through summer internship and workshops. **Ms. Parul Tomar** and **Ms. Nikita Jain** did Summer Internship from IIT Bombay under the National Program on Differential Equations: Theory, Computation & Applications, IIT Bombay in the supervision of the **Dr. K. S. Mallikarjuna Rao** (IEOR Department) and Dr. K.Sreenadh (Department of Mathematics) respectively. **Ms. Himani Yadav** did Summer Internship from IIT Roorkee under the programme 'National Network of Mathematical and Biological Computation' in the supervision of Dr. Sandip Banerjee (Department of Mathematics). **Ms. Bhawana Bamal** did Project Training from BARC, Trombay (Mumbai) under the guidance of Dr. Sudhir Ranjan Jain (Scientist-H). **Ms. Aishwaraya** participated in the National Program on Differential Equations: Theory, Computation & Applications, IIT Bombay held at IIT Ropar.



Under the aegis of "World Skills-2017" to be held at Abu Dhabi, national level competitions for 24 skills, "India Skills 2016" were held at Pragati Maidan, New Delhi from 15 -17 July 2016.

MNIT Jaipur's 3rd year B Tech Mechanical Engineering student Arvind Singh Rathore associated to "CAM Society" and "Advanced Manufacturing & Mechatronics Lab" under guidance of Dr. Harlal Singh Mali, won second position in "Mechanical-CAD" Skill category. He won a cash prize of Rs. 75,000, a Trophy, a certificate and chance to represent India in "World Skills-2017" to be held at Abu Dhabi. The prizes were distributed by Honorable Minister of Skill Development Shri Rajiv Pratap Rudy.

As a part of the celebration of the **International Day of Yoga**, a Yoga and Meditation session was organized at Malaviya National Institute of Technology Jaipur on June 21, 2016 for the students, faculty and staff members of the Institute. The session was conducted by **Shri Puneet Juneja Ji**, a yoga expert. Shri Juneja Ji demonstrated the techniques and benefits of performing different Yoga and Asanas to the participants. The event was coordinated by Dr. M. L. Meena and Dr. Sushant Upadhyaya.





A faculty-alumni meet was organized by **Department of Metallurgical and Materials Engineering** on July, 13, 2016

The **Orientation Programme** for the First Year Students 2016-17 was conducted from July 27-29, 2016.



The main objective was to make students familiar with the activities of the institute and the faculty members before starting their journey. Many parents also attended the session. The Director, Deans and faculty members attended this programme and gave their valuable recommendations and ideas for the future of the students. The orientation programme comprised of sessions on Plantation-Drive, Campus-Visit, Club-Orientation, Cleanliness-Drive, Yoga etc. in which students actively participated.



There were invited lectures by Dr. Ambika Pratap Singh and Mr. Arvind Kaul to motivate students as they begin their new journey. Ms. Rooplata Sahu, consulting psychologist from Vishakha Group for Woman Education & Research, briefed students about their transition from school to institute and about future

challenges imbining the values of collaboration and cooperation.



Students were also enlightened upon the technological advancements made by DRM Indian Railways, Jaipur and the concessions being provided to students. The orientation programme concluded with a cultural-program performed mainly by Freshers.

The introduction meeting was held branch wise by SMP for the first year students which went really good and worthy. Freshers seemed to be very enthusiastic and energetic. The meeting started with normal introduction of the chief mentor following with the introduction of mentors and the sub-mentors and the freshers. The topics discussed in the meeting were broadly, placements and training, college life, department introduction, future scope in the field. Freshers were informed about the current scenario of placements and the companies that visit our campus.



They were informed about the various summer internship programs held in the Institute and the various students' projects that are funded by the college.

A one-week **Foundation Programme** for the new students of **IIIT Kota** was organised from August 1-6, 2016 at MNIT Jaipur. The Programme aimed to acclimatize and initiate new entrants in the new system. During the Inaugural function, Prof. A. P. Singh, in his Keynote address, highlighted the career

opportunities for IT students while Prof. A. B. Gupta, Director MNIT and IIIT Kota, stressed on the need for students to aspire high.



The Foundation Programme included several specialized workshops, invited lectures, and special sessions for students. Workshops of Photography, Vocal Music, and Cookery were



organised. Experts delivered lectures on topics like Mind-body Interface, and Building Self-confidence and a Positive Attitude. Collaborative games, competitions, group activities, and presentations by students were part of the schedule. The Programme concluded with the screening of an English movie and a Cleanliness Drive of the MNIT campus by the new students. The Foundation Programme was conducted by Prof. K.C. Jain, Mrs Nanny Tripathi



and Dr Preeti Bhatt under the direction of Prof. Manoj Singh Gaur, Coordinator, IIIT Kota.



The first rays of 15th August fell on Prabha Bhawan which was filled with an essence of patriotism as the celebration of the Independence Day 2016 was graced by the presence of more than 500 students, faculty members and staff members.



As part of the 70th Independence Day celebrations on August 19, 2016, the play 'Umeed Ek nayi subah ki' was organized by the Dramatics Society, CACS. The play filled the students and faculty with national sentiment. The play tackled the issue of the struggle between Maoists and the government which has caused a lot of misery and apathy.



The Literary Society (CACS) organized a slogan writing and debate competition on August 22, 2016 as part of 70th Independence Day celebrations. The language for Slogan Writing was Hindi on the topics Indian freedom struggle, Developing India and Independent India. Topic for Debate was; Can Patriotism Be Taught In The Educational Institutions? In Hindi क्या राष्ट्र प्रेम और राष्ट्रभक्ति का पाठ शैक्षणिक संस्थानों में पढ़ाया जा सकता है? The debate participants were free to speak either in English or Hindi for/against the topic.



A total of 15 students participated in slogan writing out of which 4 participants bagged prizes. Twenty students took part in the debate competition and three were declared winner and runners up. The students, participants and the members present including the Judges and faculty coordinators



enjoyed the events and the hearts of everyone present were proud with patriotic feelings towards the nation. The events were coordinated by Sh. Ashok Agarwal and Dr. Dipti Sharma.

A patriotic song competition was organized on August 23, 2016 by the Music Society, CACS in which large number of students participated in full enthusiasm.



The participants performed the most popular patriotic song compositions by master composers of Indian cinema. The performances of students were enthralling for the august audience. The competition was judged by Dr. Bandana Chakraborty, a well-known singer and Mr. Karan Singh, a dynamic music composer.

The program was also graced with patriotic song performances by the judges and few invited guests. The judges also interacted with the students and explained the intricacies of different ragas and Hindustani classical music.

India's 70th Independence Day Fortnight was celebrated by the students and staff members of **Indian Institute of Information Technology, Kota**, that is being mentored by Malaviya National Institute of Technology, Jaipur.

A Slogan-writing competition was organized



for the students on 17th August, 2016. Twelve students wrote slogans in Hindi and English on

the 70th Independence Day of India. An Essay-writing competition was also organized for the students on 17th August, 2016. The theme of th competition was "We are proud to be Indians" in



English and "हम भाग्यशाली हैं कि हम भारतीय हैं" in Hindi. Ten students participated in the English essay competition while seven participated in the Hindi essay competition. The

essays written in English were adjudged by Prof. Santosh Gupta while the Hindi essays were evaluated by Prof. Sudesh Batra from the University of Rajasthan, Jaipur.

A Rangoli-making competition on the theme "The 70th Independence Day of India" was organized on August 22, 2016. Fifteen students from IIIT Kota took part in the competition and designed beautiful Rangolis using coloured powder and flower petals. The competition was adjudged by Dr Rachna Garg from Government College, Dausa.



organized by Mrs Nanny Tripathi and Dr Preeti Bhatt under the direction of Prof. M.S. Gaur, Coordinator, IIIT Kota, and Prof. K.C. Jain.

A Card-making competition was also organized on August 22, 2016. Fifteen students from IIIT Kota prepared colourful cards for the Jawans of the Indian Army posted at the borders of the nation. The judge for the competition was Dr Ritu Pareek from Birla Institute of



Technology, Mesra – Jaipur Extension.



A Singing Competition was organized in the Mini Auditorium, Prabha Bhawan, in the evening of August 23, 2016. Seven students participated in the competition and sang patriotic songs to the beat of music. The invited judge for the competition was



Mrs Bhawana Bhatt from Rageshwari Music Institute, Jaipur. In the dance competition, four students performed solo dances while a group of four girls performed a group dance on patriotic songs. The competition was judged by Dr Shiva Vyas from Rajasthan Sangeet Sansthan, Jaipur.



The programme concluded with Prize Distribution Ceremony for all the competitions held during the 70th Independence Day fortnight. Prof. K.C. Jain, Mrs Bhawana Bhatt and Dr Shiva Vyas gave away the prizes of the Slogan-writing, Essay-writing, Rangoli-making, Card-making, Singing and Dance Competitions to the winners. Faculty members and students of IIIT Kota attended the programme in large numbers. The events of the India's 70th Independence Day Fortnight celebrations were

A Sustainable Energy and Environment Quiz 2016 was organised by the **Energy Club** on 20-21 August, 2016.



A stage play "Ummeed Nayi Subah Ki" was organised by **Energy Club, CEE MNIT** on August 20, 2016



Reinstallation of MNIT-ISHRAE student chapter organised by **CEE, MNIT** on August 21, 2016.



A group of students of B. Tech. III and II year visited Gravita India Ltd., Phagi on August 20, 2016 along with four faculty members including Prof. A. K. Bhargava, Shri A. K. Shrivastava, Dr. V. K. Sharma and Dr. Ajaya Pradhan. Gravita India Ltd. is based on the extraction of lead from battery waste and recycling of aluminium scrap to separate out pure aluminium. At the onset Er. Sanjeev Sinha, the general manager Gravita India Ltd., gave a presentation about the plant activities. Students learnt about the processes carried out in the plant and found the same very interesting. The students found the visit very knowledgeable, fruitful and helpful for their future courses of the curriculum structure. Prof. A. K. Bhargava, HoD also explored the possibility of further interaction and invited General Manager, Sanjeev Sinha for an expert lecture. In addition to above short visit, tree plantation activity was also organized in the premises of Gravita India Ltd. where faculty and students of MNITJ actively participated.



Mr. Rahneesh Bhandari, founder of Cosmo Infrasonolutions, former president of TIE Rajasthan and a prominent individual in the world of start-ups visited ED cell and encouraged the students with his inspiring words on taking charge; being the change and entrepreneurship. An entrepreneurship enthusiast herself, Dr. Monica Sharma, ED Cell Faculty Coordinator, added the cherry on top of the cake of motivation for the students as she spoke about the Incubation Centre at MNIT - Jaipur that accommodates

start-ups from all over Jaipur and not just from MNIT.



The program came to an end with the students engrossed in filling out the recruitment forms to be part of the ED Cell team to be later interviewed one on one by the current team members. With every student already dreaming about #HireYourself, there's no denying that if you can dream it, you can do it.

Upcoming Events

Upcoming Events in the forthcoming quarter:

- Short Term Course on **Application of Custom Power Devices for Power Quality Improvement** from October 6-8, 2016.
- Short Term Training Program(STTP) on **Recent Trends in Industrial Automation Electronics and Control** during October 8-12, 2016.
- TEQIP-II MNIT Jaipur Sponsored Three Days National Workshop on **Nature Inspired Optimization**, October 21-23, 2016
- GIAN Course **Internet: Security and Privacy Challenges** from October 24-28, 2016 by Department of Computer Science & Engineering
- MNIT is going to host a DRDO seminar on **Shock and Detonation for considering project proposals in the area** on October 8, 2016.

Combined Detonics and Shock Wave Panel (CDSW) members of Armament Research Board, DRDO will present the details of the theme areas and invited faculty members of reputed academic institutions of Rajasthan to submit project proposals in the area. Many faculty members from MNIT and other academic institutions have shown their interests and will participate in the Seminar. Prof. S.K.Biswas of Dept. Of Metallurgical and Materials Engg is the Co-ordinator of the Seminar.

- Short term Course on **Nanomaterials and its Applications** from November 7-11, 2016 will be organized at Department of Metallurgical and Materials Engineering
- Short Term Course on **Advanced Optimization Techniques (AOT-16)** from November 21-25, 2016.
- Short Term Course on **Mobile Systems Security** under **GIAN (Global Initiative of Academic Network)**, an initiative of **MHRD, Govt.** of India from November 21-25, 2016; Department of Computer Science.
- **II International Conference on Soft Materials (ICSM 2016)** from December 12-16, 2016.
- **International GIAN Programme - Introduction to Sustainable Manufacturing**, Prof. P.N.Rao, from December 19-23, 2016.
- GIAN course on **Analysis of Nonlinear Problems by the Finite Element Method** during December 19-29, 2016; Department of Mechanical Engineering.

Placement & Training/ Packages

TRAINING AND PLACEMENT STATISTICS TILL 06-09-2016	
Total number of Companies visited	32
Number of PPOs offered	12
Number of Placements on Campus	80
Total Number of Students Placed(Incl. PPO)	92
Total number of Internships offered	32

BRANCHWISE PLACEMENT	
CSE	37
ECE	19
EE	7
MECH	11
CHEMICAL	7
CIVIL	6
METALLURGY	4
Packages offered (> 10 Lpa)	37
Packages offered (< 10 Lpa)	55
Following Companies have offered package >10 lpa	Amazon, Adobe, DEShaw, Arcesium, Salesforce,etc.



Happy Navratra & Vijaydashmi



CONGRATULATIONS

MNITIANS



SCIMAGO INSTITUTIONS RANKINGS
only ranks, far more than raw data

MNIT ranked 23

Scimago ranking of institutions has ranked MNIT 23rd out of 242 ranked institutions in the country, and is the only NIT in top 25. It is far-ahead of IIT Roorkee (ranked 30) and IIT Guwahati (ranked 33). MNIT managed to secure 544th rank globally.

EDITORIAL



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