



MNITJ NEWS

the quarterly news magazine

From the Director's Desk

I am pleased to release MNITJ newsletter buzzing with **events and celebrations** in the December, 2017 to February, 2018 quarter--**Alumni Day & Birth Anniversary of Mahamana Pt. Shri Madan Mohan Malaviya, Twelfth Convocation, Youth Fest, Republic Day celebrations, Sphnix'18** (technical fest), **Blitzschlag'18** (cultural fest), **MST'18** (sports fest), **National Science Day** to name the major ones.

The MNITJ family was honored to welcome **Esteemed Sh. M. Venkaiah Naidu ji** (Vice President of India) honorable Chief Guest of the Twelfth Convocation held on January 6, 2018. It was a proud moment for the degree recipients and the gold medalists to be blessed by him. Other distinguished visitors to the Institute during the quarter included **Madam Chitra Ramakrishna**, Chairperson BOG, who presided the convocation ceremony and **Dr. G. Satheesh Reddy**, Scientific Advisor to Raksha Mantri during National Science Day lecture series.

Yet again, the academic and research pursuits peaked in this quarter and the journey of MNITJ culminated into a series of activities, viz., **International Conferences** on Signal Image Technologies, Emerging Trends in Materials and Mechanical Engineering, **International Symposium** on Eco-materials Processing and Design, **STCs and FDPs** on Metallurgy, Power Electronics and Power Systems, advanced Digital Design, VLSI Design Verification, Software tools for Scientific Research, IOT with Machine Learning & Artificial Intelligence, ICT Tools and Technologies for Teaching Learning Process, Advances in Communication Technologies, Electron Microscopy, Intelligent Algorithms Application to Deregulated Power System, Cyber Security and its challenges, Innovative Strategies for Organizational Growth, **GIAN course** on Advances in Data and Web Analytics, **Workshops and Seminars** on Soft Materials and Society, Start-Up Activities & Preparation of Action Plan, Shaping Future with Latest Advancement in Satellite and Space Mission, Air Quality and Present Challenges, LATEX and Technical Writing, Indo-Portugal Bilateral Workshop. Both the inflow and outflow of expert lectures and talks marked this period. The institute faculty have also visited national and international forums during this quarter to acquire and disseminate knowledge & research.

In the end I wish to encourage My NIT family in the words of *Richard Branson*, "My biggest motivation? Just to keep challenging myself.....everyday I'm learning something new."

Jai Hind

Prof. Udaykumar R Yaragatti



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.



The **Twelfth Convocation** of Malaviya National Institute of Technology Jaipur was held on January 6, 2018. **Honourable Vice President of India, Sh. M. Venkaiah Naidu ji** was the esteemed Chief Guest of the ceremony. Ms. Chitra Ramakrishna, Chairperson BOG MNITJ, presided the convocation function. A total of **1098 (687 UG, 354 PG and 57 PhD degrees)** were awarded in the convocation.

Workshops/Conferences/Short-Term Courses/Training Programmes Conducted

Department of Computer Science and Engineering organised **13th International Conference on Signal Image Technologies and Internet Based Systems** from December 4-7, 2017 technically sponsored by IEEE, ACM and DST

Government of Rajasthan. A total of 80 participants including international participants from 23 different countries; Saudi Arabia, Malaysia, United States, Germany, United Kingdom, China, Senegal, Lebanon, Singapore, Djibouti, Canada, Japan, Germany, France, Iran, Norway, Russia, Italy, Denmark, Bangladesh, Thailand, Morocco, and India participated in the conference. Prof. Udaykumar R Yaragatti, Director, MNIT Jaipur, was the Chief Guest and Dr. Neeta Nain was Program Chair for the conference.



Prof. Anil K. Jain (University Distinguished Professor, Department of Computer Science & Engineering, Michigan State University, USA), Prof. Dr.

Narendra Ahuja (Research Professor in the Dept. of Electrical and Computer Engineering, Beckman Institute, and Coordinated Science Laboratory at University of Illinois at Urbana-Champaign (UIUC), and the Director of Information Technology Research Academy) and Prof. P. J. Narayanan (Professor & Director International Institute of Information Technology Gachibowli, Hyderabad, India) were the distinguished speakers at the conference.



Department of Metallurgical & Materials Engineering organized a short term course **Metallurgy for Non-metallurgists** during December 11-15, 2017 in collaboration with TEQIP-III MNIT Jaipur. The course was aimed to cover basic understanding of phase diagrams, steels and their heat treatments to achieve various combinations of mechanical, physical and chemical properties and their correlation with microstructure. Prof. A.K. Bhargava and Prof. Upendra Pandel were the coordinators.



One day workshop, **Soft Materials and Society** was organized by **Soft Materials Research Society (SMRS) Jaipur and Dept. of Physics, MNITJ** on December 15, 2018. Prof. Udaykumar R Yaragatti (Director MNIT Jaipur) inaugurated the workshop and the workshop was coordinated by Dr. Kamleendra Awasthi.



Electronics and ICT Academy MNITJ organized a global faculty development program **Power Electronics and Power Systems (Renewable Energy)** from December 11-20, 2017 under the of Ministry of Electronics & Information Technology (MeitY) ICT Academies at seven institutions viz. IIT Guwahati, IIT Kanpur, NIT Warangal, NIT Patna and IIITDM Jabalpur (under Category-A); and IIT Roorkee, MNIT Jaipur (under Category B). The lab sessions were held in offline mode at respective E&ICT academies. The FDP was coordinated by Dr. Arun Kumar Verma and Dr. Nitin Gupta.

Electronics & ICT Academy MNITJ organized faculty development programme **CAD Tool for advanced Digital Design using FPGA** from December 11-15, 2017. The programme was coordinated by Dr. Amit M. Joshi and Prof. Vineet Sahula. There were around 30 participants from different states as Gujarat, Rajasthan,



Maharashtra, Delhi and West Bengal. Experts included Dr. Anand Darji, (NIT-Surat), Dr. Pinalkumar Engineer (NIT-Surat) and Mr. Abhniva Agarwal, (Research Scholar California Institute of Technology, USA), Prof. Vineet Sahula, Dr. Lava Bhargava and Dr. Amit M. Joshi (MNITJ).

Electronics & ICT Academy MNITJ organized faculty development programme **VLSI Design Verification** during December 16-20, 2017. The programme was coordinated by Prof. Vineet Sahula and Dr. Amit M. Joshi. 35 participants from Gujarat, Rajasthan, Daman & Diu, Maharashtra, Punjab and West Bengal attended the FDP. Dr. C.P. Ravikumar, Texas Instruments, Bengaluru conducted the lectures and hands on sessions.

Department of Computer Science and Engineering organised a **GIAN course on Advances in Data and Web**



Analytics from December 16-20, 2017. Dr. Richi Nayak, Higher Degree Research Director in Electrical Engineering & Computer Science School, Queensland University of Technology, Brisbane was the international faculty. 57 research scholars and faculty members from various engineering institutes & industries across India attended the program. The inaugural was presided over by Director MNIT, Prof Udaykumar R Yaragatti, and Head Department of CSE, Prof Girdhari Singh. Dr Vijay Janyani was the GIAN coordinator. Dr. VCV. Rao, Associate Director and Head of the Division High-Performance Computing at C-DAC Pune, delivered a lecture **Big Data Analytics and Graph Analytics**. This program was coordinated by Dr. Namita Mittal,

Dr. Pilli Emmanuel Shubhakar & Prof. M. C. Govil.

NPIU in collaboration with AICTE organized a two-day workshop, **Start-Up Activities & Preparation of Action Plan** for project institutes in association with TEQIP-III, MNITJ during January 8-9, 2018. The workshop included lecture session and motivating speeches by the experts. The aim of the workshop was to increase the awareness about startup ideas and industries in academic institutes.



Departments of Mathematics and Mechanical Engineering, jointly organised a short term course **Software tools for Scientific Research: Mathematica and LaTeX** during January 9-13, 2018, partially sponsored by TEQIP phase-III. The event was coordinated by Prof. Rashmi Jain, Dr. Ritu Agarwal and Dr. Mukesh Kumar. More than 45 participants from Rajasthan, Gujarat, Himachal, Delhi, UP, Haryana, MP consisting of research scholars and faculty members from



engineering, maths, humanities and applied sciences backgrounds benefitted by gaining knowledge of working in LATEX and MATHEMATICA. The course consisted of 18 sessions. The lectures were delivered by the experts Dr. Ritu Agarwal, MNITJ, Dr. Pravin Garg, UOR Jaipur, Dr. Kavita Lalwani, MNITJ, Mr. Mahendra Singh Bisht, Scube Scientific.



National Convention on **Shaping Future with Latest Advancement in Satellite and Space Mission** was organized on January 20, 2018 for refinement of future and its challenges in field of space and satellite engineering, by MNIT Jaipur. The convention brought together the latest advancement in satellite technology and space mission and the program was coordinated by Dr. Nirupam Rohatgi and Dr. Arun Kumar Verma.



Department of Civil Engineering organised a workshop, **Air Quality and Present Challenges** on January 20, 2018. The workshop was a part of the international Air-O₂-Thon Series with previous editions being organized at IIT Delhi and IIT Mumbai. It was organized in collaboration with Indian Pollution Control Association (IPCA), New Delhi. The primary focus of Air-O₂-Thon Jaipur Edition event at MNIT Jaipur was **Indoor Air Quality and Health**. The workshop saw deliberations from eminent pulmonologists of Jaipur, Dr. M.L. Gupta and Dr. Virender Singh. A wide audience comprising of all the stakeholders benefitted immensely from interaction with experts from NEERI, IGBC, SMS Medical College Jaipur, IPCA and MNIT Jaipur. Dr. Nivedita Kaul was the coordinator of the workshop.



Electronics & ICT Academy organized a faculty development programme, **IOT with Machine Learning & Artificial Intelligence** during January 20-24, 2018. External invited experts were Dr. R. Balasubramaniam and Dr. Partha Roy from IIT Roorkee. The programme was coordinated by Dr. Lava Bhargava.

Department of Civil Engineering organised a five day training program for WRD engineers from January 21-25, 2018. The residential training program was specially designed to train WRD engineers in advance remote sensing & GIS applications in water resources so as to bring about a paradigm shift in transforming WRD to a technically sound department. Varied experts P.K. Garg(IIT Roorkee), Dr. J. Indu(IIT Bombay), Prof. Rohit Goyal(MNIT Jaipur), Dr. M. K. Jat, (MNIT Jaipur), Dr. Sumit Khandelwal (MNIT Jaipur), Ms. Nupur Singh(WRD, Rajasthan), Mr. Sanjay Agarawal(WRD, Rajasthan), Dr. Pran Dandich (Poornima Institute of Technology, Jaipur) and Dr. Ankita Dandich(MNIT Jaipur) delivered the lectures and interacted with WRD engineers.



A National Workshop on LATEX and Technical Writing sponsored by TEQIP was organized by the **Department of Computer Science & Engineering and the Department of Humanities and Social Sciences** from Jan. 24-28, 2018.

The workshop included sessions by experts on topics like basics of LATEX and technical writing, satisfying document specifications like style and format, page layout and organizational structure, and principles of coherence and cohesion in professional communication,. A total of 46 participants including students, research scholars, faculty members and industry professionals from all over the country participated in the workshop. This program was coordinated by Dr Meenakshi Tripathi, Dept. of CSE and Dr Preeti Bhatt, Dept. of HSS.



Unnat Bharat Abhiyan Team MNITJ organized one day Workshop at Bhurthal village on January 26, 2018. Faculty coordinators of Dhab ka Nala village, Dr. M. L. Meena and Dr. Sushant Upadhyaya including 25 MNIT students visited the village. Various events included sketching/painting, quiz and sports activities. The workshop concluded with prize distribution to winning village school students.

Department of Metallurgical and Materials Engineering MNITJ & Department of Mechanical Engineering, Poornima University, Jaipur jointly organized an International Conference, **Emerging Trends in Materials and Mechanical Engineering** from January 29-30, 2018. There were 150 participants from industries and academic institution. The conference was chaired by Dr. Rajendra Kumar Duchaniya and Dr. B.K. Sharma.

A five-day Indo-Portugal Bilateral Workshop, **Protective coatings: low friction and wear resistance** coordinated by Dr. Amar Patnaik, Dr. Amit Singh, Dr. M. L. Meena, Dr. Kanupriya Sachdeva was held during, January 29 to February 2, 2018 under **TEQIP-III MNITJ**. This workshop provided an explanation of protective coatings, deposition techniques, tribology, corrosion, hard coatings, low friction, self-lubrication, applications, machining, demolding, challenges, multifunctionality, local sensing. The participants of workshop included faculty and students of academic institutes, scientifics, industries and R&D organizations.

Electronics & ICT Academy organized an intensive one-week Faculty Development Programme, **Advances in Communication Technologies** during February 9-14, 2018. External invited experts of this programme were Dr. Antonio d'Alessandro (Sapienza University of Rome, Italy), Dr. Tawfik Ismail (University of Cairo, Egypt), Dr. Preetam Kumar (IIT Patna), Dr. Kalpana Dhaka (IIT Guwahati). The programme was coordinated by Dr. Ashish Kumar Ghunawat, Dr. M. Ravi Kumar, Dr. G. Singh and Prof. K. K. Sharma.



Materials Research Centre, Metallurgy Department & Department of Physics organised a STTP **Electron Microscopy** during February 19-23, 2018. The coordinator of the STTP was Dr. Kanupriya Sachdev. The course intended to enlighten metallurgical and materials researchers from industries and academia on the fundamentals and recent developments of electron microscope.

19th International Symposium on Eco-materials Processing and Design (ISEPD 2018) was organized by University of Cologne, Germany in collaboration with MNIT Jaipur during 21-25 February, 2018 in Jaipur. Participants visited MNIT Jaipur on February 21, 2018 and an overview of ongoing research work at MNIT was presented by Prof. Jyotirmay Mathur (**Dean, Research and Consultancy**). The event was coordinated by Dr. Kamendra Awasthi.



Department of Electrical Engineering organized a FDP, **Intelligent Algorithms Application to Deregulated Power System** during 23-27 Feb 2018, under the aegis of E&ICT Academy and TEQIP. Prof. Tripatha Thakur, NIT Bhopal and Dr. Sujoy Parida, IIT Patna along with MNIT faculty were the resource persons. Dr. Vaskar Sarkar, IIT Hyderabad, delivered through Skype. Twenty Seven participants attended the course. The course was coordinated by Dr. Rohit Bhakar, Dr. Purna Jain and Dr. Dipti Saxena.

Department of Computer Science and Engineering organized a five-day faculty development workshop, **Cyber Security and its challenges**, coordinated by Dr. Ramesh Batulla during February 25 - March 1, 2018 under TEQIP-III MNIT, Jaipur.

MNIT & MIIC organized a seven day corporate executive training program, **Innovative Strategies for Organizational Growth** for engineers and managers of Rajasthan Electronics Instrumentation Limited, Jaipur from February 24 to March 3, 2018. In this training program, experts from industry and academia shared their experiences and covered various strategies for organizational growth such as : total quality management, lean manufacturing, six sigma, sustainable automations; innovation for growth; cutting edge; leadership; change management; strategic human resource management. All participants appreciated the inputs and value additions.



Distinguished Visitors/Expert Lectures in the Departments/ Institute



MNIT Innovation and Incubation Centre organized an **Awareness Talk** to create and increase awareness about important funding opportunities NIDHI-EIR & PRAYAS etc. on January 17, 2018. The focus of the event was to provide information of this grant, the application process, funding process-flow, guidance on writing winning proposal. More than 50 people participated including MIIC registered startups & MNIT students who took keen interest in entrepreneurship. In the session startups and students cleared their doubt with Ms. Amruta (Venture Centre, Pune) regarding funding schemes and their application process.

Department of Humanities and Social Sciences organised expert lectures, **Confronting the Internets Dark Side Moral and Social Responsibility on the Free Highway**; and **Striking A Balance Multiculturalism and Human Rights** on January 18 and January 19, 2018, delivered by Dr. Raphael Cohen Almagor, Professor and Director MESG School of Law and Politics University of Hull United Kingdom.

An expert talk, **India's Role in Middle East, Look East Policy** was delivered by Dr. Rahul Tripathi , Head of the Department of Political Science at Goa University, Goa on February 19, 2018. Dr. Vibhuti Singh Shekhawat (**HSS Department**) was the coordinator.

Visit/Expert Lectures delivered by Institute Faculty

Dr. Rohit Bhakar (Coordinator TEQIP-III) attended the meeting organized by NPIU for explaining rules and regulations of conducting the recruitment of assistant professor (on contract basis) held on December 04, 2017 at New Delhi.

Dr. Harlal Singh Mali along with two students **Jitendra Jaisawal** and **Mandip Singh Kapoor** represented **Mechanical Engineering Department of MNITJ** at **AU INDIA & SAARC 2017 Summit** held at Bengaluru on 14 December, 2017 by presenting projects on **low cost Prosthesis (3D printing of Jaipur foot)** and **Orthosis (4-kare knee braces)**. During the daylong event, along with presentations, interactions were held with industry experts and academicians, **Gary Conard** (Director, Worldwide Customer Engagement & Autodesk Education Experiences), **Patrick Williams** (Senior Vice President, Asia Pacific, Autodesk), **Nicolas Mangon** (Vice President - AEC Industry, Autodesk), **Pradeep Nair** (Managing Director, India & SAARC, Autodesk), **Tatjana Dzambazova** (Senior Product Manager, Emerging Technologies, Autodesk), **Prof. Pradyumana Vyas** (Director, NID, Saurabh Singh, (DGM, Maruti Suzuki) etc. The visit was fully sponsored by Autodesk India Inc.



Dr. M. L. Meena (**Department of Mechanical Engineering**) delivered an invited talk, **Human Factors and Man-Machine Interactions in Manufacturing** on December 19, 2017 in the AICTE 2-week FDP on **Competitive Manufacturing Technologies** held during December 11- 22, 2017 organized by the Department of Mechanical Engineering, Amrutvahini College of Engineering, Sangamner, Maharashtra.

Dr. Preeti Bhatt (**Department of Humanities and Social Sciences**) delivered an invited lecture on Dec. 20, 2017 on the topic, **Reading Skills for Better Comprehension** in the Faculty Development Programme on **Advances in VLSI Design Verification** organized by Electronics & ICT Academy, MNIT Jaipur, from 16 - 20, Dec. 2017.

Dr. Sudhir Kashyap (**Department of Chemistry**) delivered an invited lecture entitled, **Sulfonium Iodate(I) Salt as Novel Reagent for Selective Functionalization of C-C multiple Bond** at **International Conference on Contemporary Facets in Organic Synthesis (CFOS-2017)**, organized by the Department of Chemistry, IIT Roorkee, during December 22 -24, 2018.

Dr. Rohit Bhakar (**Coordinator TEQIP-III**) attended the meeting of TEQIP Coordinators, organized by NPIU Mentor institutions on January 12, 2018.

Dr. M. L. Meena (**Department of Mechanical Engineering**) delivered an invited talk, **Ergonomics Strategies for Prevention of Musculoskeletal Disorders** on January 30, 2018 at the International Conference on Emerging Trends in Material Science and Mechanical Engineering (ICETMM-2018) held during January 29-30, 2018, jointly organized by Department of Metallurgical and Materials Engineering, MNITJ and Department of Mechanical Engineering, Poornima University, Jaipur.

Dr. Mahender Choudhary, (**ADPG**) attended a meeting on explanation of rules and regulations for hiring national consultants for GATE on behalf of MNITJ on January 31, 2018 organised by NPIU at Delhi under TEQIP-III.

Dr. Prof. A.K. Bhargava (**Department of Metallurgical and Materials Engineering**) delivered a keynote address, **Emerging Trends In Materials And Mechanical Engineering** at the Department of Mechanical Engineering, Poornima University, Jaipur on January 29, 2018.

Dr. K. Sachdev (**Department of Physics**) delivered an expert lecture, **Energy Materials and their Application** in the five day workshop on **Protective Coatings: Low friction and wear resistance** during January 29 to February 2, 2018 at MNIT, Jaipur.

Dr. R. K. Duchaniya (**Department of Metallurgical and Materials Engineering**) delivered an invited talk, **Measurement of corrosion and their remedial process** at Department of Mechanical Engineering, MNIT Jaipur in the **Indo-Portugal Bilateral Workshop on Protective coatings, low friction and wear resistance** on January 29 to February 2, 2018.

Dr. Preeti Bhatt (**Department of Humanities and Social Sciences**) delivered invited lectures on the topics, **ICT Tools for English Language Teaching and Learning; Professional Communication Pedagogy** and **Basics of Technical Report Writing** in the Faculty Development Programme on '**ICT Tools & Technologies for Teaching Learning Process & Institutes**' organized by Electronics & ICT Academy MNITJ from 3 - 7, Feb. 2018.

Dr. Satyanarayana Neeli (Department of Electrical Engineering) attended a NPIU organized two-day workshop on outcome based education & the process of NBA Accreditation for participating institutions during February 8-9, 2018. the workshop at AICTE Auditorium New Delhi.

Dr. K. Sachdev (Department of Physics) delivered an invited talk, **Stacked Multilayer Structure to Nano Mesh Transparent Electrode for Opto-electronic Application** in the 19th International Symposium on Eco materials Processing and Design held during February 20-24, 2018 at Mariott Hotel, Jaipur

Dr. Kamlendra Awasthi (Department of Physics) delivered an invited talk in an **Indo-German workshop on Ecological Processes and new Technologies for Sustainable Development** organized at Hotel Marriott Jaipur on Feb. 22, 2018.

Dr. Kamlendra Awasthi (Department of Physics) delivered an invited talk in **International Conference on Environment Sustainable Development** at Vivekanand Global University Jaipur on February 25, 2018.

Faculty Achievements

Prof. Govind Sharan Dangayach (Head, Department of Mechanical Engineering) is appointed as Associated Editor of Scopus indexed Journal, *International Journal of Business and Systems Research (IJBSR)* published by Inderscience.

Prof. P R Soni (Department of Metallurgical and Materials Engineering) chaired the session, **Metal Rolling and Casting Technologies** during the 5th India Industrial Fair 2018, January 5-8, 2018, jointly organized by Department of Industries, Govt. of Rajasthan and Laghu Udhog Bharti (with the support of Vigyan Bharti) at JECC Sitapura, Jaipur.

Dr. Jyoti Joshi (Department of Chemistry) chaired a technical session and presented a paper entitled **Synthesis and characterization of novel ionic compounds comprising of organo inorganic framework** in the 24th International Conference (ISCBC-2018) on Frontier Research in Chemistry and Biology Interface organized by Manipal University, Jaipur & Indian Society of Chemists and Biology, Lucknow, India from January 11-13, 2018.

Prof. P R Soni (Department of Metallurgical and Materials Engineering) chaired a plenary session at the International Conference on Powder Metallurgy and Particulate Materials (PM'18) held during February 21-23, 2018 at CIDCO Centre, Navi Mumbai.

Dr. Arun Kumar Verma (Department of Electrical Engineering) chaired the session in the International Conference on Signals, Machines and Automation (SIGMA) on February 23, 2018. The conference was held at Netaji Subhas Institute of Technology (NSIT), New Delhi during February 23-25, 2018.

Dr. Kamlendra Awasthi (Department of Physics) has edited a volume (Volume 376, December 2017) in Macromolecular Symposia (WILEY-VCH, Germany) on Advances in Soft Materials.



Centre for Energy and Environment has been conferred the RECA Award 2017 by Government of Rajasthan.

Research....related activities

Mr. Jitendra Carpenter and Mr. Swapnil Bargole, PhD scholars working under the guidance of **Dr. Virendra Kumar Saharan (Department of Chemical Engineering)** have received the prestigious **CSIR SRF Fellowship** under the category "Engineering" in the session 2017-18 for a tenure of three years.

Dr. Rajesh Kumar (Department of Electrical Engineering) attended the **International Transportation Electrification Conference, 2017** organized during December 13-15, 2017 under TEQIP-III and presented two

research articles titled, **Electric Vehicle (EV) Cancellation Event Classification for Multi-Aggregator EV Charge Scheduling (EVCS)**, and **Estimation of Model Parameters and State-of- Charge for Battery Management System of Li-ion Battery in EVs**.

Dr. Mahesh Kumar Jat (**Dept. of Civil Engineering**) presented a research paper at the **International Conference on Geo-Spatial Technology for Natural Resource Management & Climate Change** during December 21-22, 2017 under TEQIP-III.

Dodla Sivanageswara Rao and Thurpu Raghavender Reddy (PhD scholars), under the supervision of Dr. Sudhir Kashyap (**Department of Chemistry**) made a *Poster Presentation*, **Stereodivergent Functionalization of Unactivated Alkenes Employing Sulfonium bis(acetoxy) Iodate(I) Complex**, at the **International Conference on Contemporary Facets in Organic Synthesis (CFOS-2017)**, organized by the Department of Chemistry, IIT Roorkee, during December 22-24, 2018.

Dodla Sivanageswara Rao and Thurpu Raghavender Reddy (PhD scholars), under the supervision of Dr. Sudhir Kashyap (**Department of Chemistry**) made a *Poster Presentation*, **Efficient Method for Regioselective Vicinal Iodofunctionalized molecule by using Sulfonium Iodate(I) Reagent in the 24th ISCB International Conference; Frontiers Research in Chemistry & Biology Interface (ISCB-2018)**, held at Department of Chemistry, Manipal University Jaipur, during January 11-13, 2018.

Dr. Ritu Agarwal (**Department of Mathematics**) presented a paper, **Fractional Ruscheweyh derivative and its applications**, at the **International conference on mathematical sciences and statistics** organized by Universiti Putra Malaysia during February 06-08, 2018.

Vibha Uttam and **R.K. Duchaniya** (2018) presented, **Effect of Temperature and Ph on Ni-P deposits on mild steel deposition by electro less coating process, 2018** at the **International Conference on Emerging Trends in Materials and Mechanical Engineering** at the Department of Mechanical Engineering, Poornima University, Jaipur.

Research paper entitled, **Wear and Corrosion Properties of In-situ Grown Zirconium Nitride Layers for Implant Applications**, authored by Nimu Chand, Vamsi Krishna Balla, Mithun Das, and **A. K. Bhargava**, published in *Surface and Coatings Technology*, Vol. 335, issue No.1, (2018) pp 357-364.

Dr. Sudhir Kashyap (**Department of Chemistry**) along with Mr. Dodla Sivanageswara Rao and Mr. Thurpu Raghavender Reddy (PhD scholars), authored a research article entitled, **Chemoselective and Stereospecific Iodination of Alkynes using Sulfonium Iodate(I) Salt** in *Org. Biomol. Chem.*(2018), 16, 1508-1518, IF = 3.559.

Shrikant, S.K. Jatav, P.P. Kulkarni, **U. Pandel**, A. K. Nayak and **R.K. Duchaniya** (2018), authored an article, **Investigation of Simulant Material with Different Temperatures and its Melt Pool with Quench Behavior, 2018** in *International Conference on Emerging Trends in Materials and Mechanical Engineering* at the Department of Mechanical Engineering, Poornima University, Jaipur.

S.K. Jatav, Shrikant, **U. Pandel**, A. K. Nayak and **R.K. Duchaniya** (2018) published a **study on the properties and characterization of non-irradiate and irradiate red mud brick sample, 2018** during the *International Conference on Emerging Trends in Materials and Mechanical Engineering*, at the Department of Mechanical Engineering, Poornima University, Jaipur.

Student related activities

MNIT Innovation and Incubation Centre in association with St Edmund's School Organized a session on entrepreneurship awareness on December 16, 2017. The objective of the event was to boost the teachers to encourage the young and talented students to develop India's entrepreneurial ecosystem. The keynote talk was given by Dr. Awadhesh Bhardwaj(Head, MIIC) followed by Dr. Monica Sharma(Coordinator, MIIC) and Sudhir K Singh(Director- St. Edmund's School). Many representative of renowned schools of Jaipur actively participated in the event. This session helped students and their teachers in deciding and shaping their career.



On the occasion of 156th birth anniversary of Pandit Madan Mohan Malaviya, MNIT fraternity celebrated **ALUMNI DAY 2017** and felicitated silver (1992 pass out) and golden Jubilee (1967 entry) batches on 25th December, 2017. The event was aimed at bringing together alumni and institute on the same platform. Er. Rakesh Verma (President, MNIT- JAA) appraised about alumni activities of the previous year and the future plans to strengthen the bond between alumni and institute. Prof. Dilip Sharma (Dean Student Welfare and Alumni Affairs) appreciated alumni for their cooperation and support in different Institute activities.



The YOUNG INNOVATOR HUNT, a program for school children was organized by **MNIT Innovation and Incubation Centre** and St. Edmund' school on January 12, 2018 at MNIT Jaipur. Thirty four teams from various schools participated in the event. The event was divided into three sessions; initially a screening round was conducted where all the teams presented their ideas in brief to the judges after which 11 teams were shortlisted. In the second session the shortlisted teams were mentored by successful entrepreneurs who encouraged and guided the participants for refining their ideas. In the final session the teams pitched their innovative ideas in detail to the jury members.



The Vyaktitva Srijan Club organised a 3-day **Youth Fest** from January 12-14, 2018 on account of the birth anniversary of **Swami Vivekanand**. The Chief Guest for the inaugural ceremony was Prof. Udaykumar Yarangatti, Director MNITJ and Sh. Shomkant Sharma, motivational speaker.



Many sports, cultural and literary events were organised during the fest. These included **Kavyanjali, Story Slam, War of Words, Let's Talk, Q-fiesta** (based on the biography of **Swami Vivekanand**), the **Constitution**. Cultural events which were the centre of attraction for students were **Vrinhannala, Jhankar Beats, and Rangoli Design**. Many mind games were also organised and the most fun and frolic sports events included **Tug of War, Lemon Race, Kabaddi, Sack Race, Kho- Kho, Sitoliya Slow Cycling Race**. Around **1100** students from different colleges and MNIT participated in this event and contributed to making this event a great success. Winners of different events were given certificates and cash prizes during the closing ceremony held on 14 January. Dr. Arun Kumar Verma, and Dr Kamlendra Awasthi , were the coordinators for the event.



The Music and SPIC MACAY Society (CACS) organized a **Dhruwad concert** by Internationally Acclaimed Vocalists Shri Prashant Mallick and Shri Nishant Mallick on 19 January 2018, under **SPIC MACAY**. The artists mesmerized the audience with Ragas, Bandish and creative rendering of musical compositions. The event was coordinated by Dr



Sumanta Meher, Dr U.K. Arun Kumar and Dr Preeti Bhatt.



MNIT Innovation and Incubation Centre organized a session with Ms. Ketna Hirji who works in the Mayors Smart London Board where she is building a start-up government strategy on January 19, 2018. She is an Ex Google, from London, spent six years in India and the United States helping businesses expand and look for partner investment opportunities as well as Joint Ventures. In her current role she helps start-ups raise investment, access to corporate and government and

ensuring they work with top talent/mentors across the world. The session was very fruitful & informative for registered start-ups of MIIC. Ms. Ketna shared her experience with Google and other start-ups in United States.



SPHIX -the 3 day technical fest was inaugurated on January 19, 2018 in the august presence of Director, Prof. Udaykumar R. Yaragatti, the Chief Guest Mr. Vaibhav Galriya (Commissioner JDA) and Guest of Honor Mr. Ajeet Saxena (Superintendent Engineer, Jaipur Circle, JVVNL). Dr. Mushtaq Ahmed (faculty advisor technical society) felicitated all the guests of the ceremony. A detailed account of the events was given to the audience by Dr. Meenakshi Tripathi (faculty advisor technical society).

The festival marked a 3-day long convergence of technical events, cutting edge workshops and national-level hackathons and tech talks. Dr. A.K.Naik - Senior Scientist at BARC, Shri Madhusudan - Cofounder at KrazyBee, Mr. Rahm Shastry - Co Founder and CEO of DriveU, and Mr.Raghunandan, founder of TaxiForSure were the prominent speakers in the Techfest. SPHINX registered a footfall of over 3000 students from different colleges all over India.

Under CORE LOVE there were many branch specific events for the assessment of the participants who come from different arena of expertise. The events for chemical engineering were CHEM-QUIZ, HEAT-X and LAMINAIRE. The Civil Engineering events were SEISMIC and CIVIQ which tested the participants' design and dynamic skills of civil projects. Computer Science Engineering tested the computing skills of the participants with the events BRAINSTORM, CODE-OF-WAR and READING BETWEEN THE LINES. The Electrical and Electronics Engineering events included BRAINHUNT, CIRCUIT-O-MANIA and DIGIBUG to test the circuit solving skills. The Mechanical Engineering events were EGGDROP, HYDRO ROCKET and CREATRIX. ENTRAPY and URJA were the events organized by the Metallurgical and Material Science students.

During the valedictory ceremony on January 22, 2018, Director MNITJ, Prof. Udaykumar R Yaragatti lauded team SPHINX for its incessant efforts and wished good luck for the next edition. Dr. Mushtaq Ahmed, Dr. Prerna Jain and Dr. Meenakshi Tripathi extended their gratitude to the audience for making SPHINX successful.

MNIT Innovation and Incubation centre organized the sixth round of new start-ups selection process on 25th January 2018. Six companies applied for incubation at MIIC and were invited to present their business ideas in front of experts from government institutions, successful entrepreneurs and industrialist. Four companies were recommended by experts for possible incubation in MIIC and were invited for incubating at MIIC.

The 69th Republic Day was celebrated by hoisting of the national flag by Director Prof. Uday Kumar R. Yaragatti, in the presence of faculty members, staff and students who assembled near the Prabha Bhawan to celebrate the day. Patriotism, unity and integrity filled the air. Prof. Udaykumar R. Yaragatti highlighted the achievements of our institute and inspired one and all by his motivating words. Under **Ek Bharat Shrestha Bharat** programme, the **Creative Arts and Cultural Society** organised performances such as Bihu dance, fusion of Assamese and Rajasthani song and State Anthem of Assam during the Republic Day celebrations.



Centre for Energy and Environment

celebrated completion of 6 years (26th Jan, 2012-2018). A poster on achievements of CEE since its inception was launched by the Director MNITJ. An exhibition was organised at CEE on various ongoing Research and Development activities.



German exchange student, Justin Herdegen from Ostbayerische Technische Hochschule Amberg-Weiden, Germany completed 6 months internship at **Centre for Energy and Environment**.



Presenting the vibrant diverse culture of Jaipur, Rajasthan's grandest and most talked cultural festival, **Blitzschlag'18** was organized by **Creative Arts and Cultural Society MNITJ** from February 2-4, 2018. With a thunderous line-up of cultural events and competitions topped with engaging workshops, Blitzschlag'18 was a great learning experience to every circle of students. The event witnessed a footfall of around 2,000 students. Blitzschlag'18 included the singing concert of Padma Shri Awardee Ms Malini Awasthi. She stole the hearts by her mesmerizing folk songs in Awadhi, Bundelkhandi and Bhojpuri. MNIT danced to beats of most popular DJ in the country, **Teri Miko**. **Ramba-Samba** saw various colleges come up with their best dance troops, the competition was won by the unbeatable group of MNIT, E=mc2. Fashion divas and handsome hunks from renowned colleges set the pace for the fashion show **Panache** held on February, 3. Mr. Mayank Madan (actor and

model) was the esteemed judge. The groups being judged on the basis of creativity, innovation and the formations. Breaking the mould, faculty and non-faculty members of MNIT Jaipur walked down the ramp, with the theme **Indian Woman's Empowerment** and presented the role of women in different realms of our society. The evening ignited when honorable Prof. Udaykumar Yaragatti (Director) and Prof. Dilip Sharma

(Dean SW) accompanied the group in their final walk. It not only pleased the huge gathering but also catalyzed the hidden sparks of fashion in the admirers of the event.

BLITZSCHLAG'18 culminated with **Flute Concert** on the 3rd day evening by a living legend, Shri Dipak Sarma (flautist from the state of Assam) who was accompanied on the Tabla by Shri Kaushi Konwar. For his distinguished work and outstanding contribution, Sh. Dipak Sarma



was conferred the Sangeet Prabha award in 2007 and Gems of Assam in 2008. The multitude of the Blitzschlag'18 extravaganza touched the highest notes with the young

heartthrob, **Krishnakumar Kunnath** popularly known as **K.K.** gracing the fest with his melodies of famous Bollywood songs. It was an enjoyable musical evening with such exemplary musicians.



Dr. Dipaloy Datta and **Mr. Shiv Om Meena** coordinated the visit of 3rd Year students of B.Tech., **Chemical Engineering** at IOCL Plant, Mohanpura, Jaipur on 7- 9 February, 2018.

Department Civil Engineering organized a field visit to dedicated freight corridor, at Bhagega- Neem Ka Thana, which is an ambitious project of Indian Railways on February 21, 2018 for 6th semester students. The objective of this field visit was to reinforce experiential and contextual learning for students. 90 students visited, participated, observed and practically learned the different parts of Railway. The visit was guided by **Dr. Arun Gaur** and **Dr. Sandeep Shrivastav**.



A team of **Dramatics Society** MNIT Jaipur won the first prize in the **NukkadNatak** competition of the intercollege festival 'Pravah' held at SKIT Jaipur on February 23, 2018. The natak highlighted the apathy of society towards young students fighting depression because of performance pressure in competitive examinations.

National Science Day was organized from February 26-28, 2018 at MNITJ in association with Vijnanabharati (VIBHA) Rajasthan. Guest lectures by renowned personalities from DRDO, BHRAHMOS, IMD, DST, CSIR were



organised and activities like poster making, model presentations, poster presentations etc. for school and college level students enhanced their creativity and knowledge. The event marked **Abhijna Grama Navakalpana Yajna** whereby students from different constituencies participated to learn how to build and modify the present state of the Indian village into smart/ modern village. Rajasthan Government ordered 200 constituencies to take top 5 students from their respective constituency. Other activities included farmers meet (Panchayat), workshop for science teachers to enhance their knowledge and rectify their

queries. Different engineering institutions of Jaipur like Arya College of Engineering and IT, Poornima Group of Institutions presented their working models. Prof. Udaykumar R. Yaragatti, Director MNITJ was the Chairman; Prof. B. L. Swami & Prof. M. K. Shrimali, General Secretary; Dr. S. D. Bharti & Dr. Arun Kumar Verma were the Organizing Secretary of the program. Dr. Pooja Nigam was the coordinator. '



राजभाषा एकेडमी द्वारा 26 से 28 फरवरी 2018 तक एर्नाकुलम केरल में आयोजित 12वें हिन्दी सम्मेलन एवम कार्यशाला के दौरान मालवीय राष्ट्रीय प्रौद्योगिकी संस्थान जयपुर की पत्रिका मालवीय प्रकाश के उत्कृष्ट संपादन हेतु डॉ. ज्योति जोशी, विभागाध्यक्ष एवम सह आचार्य को सम्मानित किया गया।



Sphinx'18



Upcoming Events

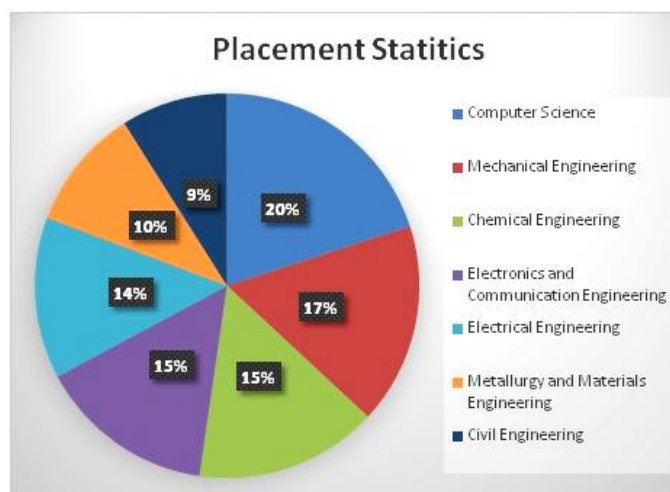
- GIAN course on City Energy Management Modeling And Practice, March 10-15, 2018.
- GIAN Course on Disaster Information Management Systems, March 12-16, 2018.
- International conference on Urban Sustainability: Emerging Trends, Themes, Concepts & Practices (Icus 2018) Department of Architecture and Planning ;16-18, March 2018.
- GIAN Course on Advanced Pattern Recognition Techniques, March 26 - 30, 2018.
- Third International Conference on Advances in Internet of Things and Connected Technologies, March 26-27, 2018.
- FDP on Emerging Trends in Nano Scale Devices and Circuits, April 02-06, 2017.
- STTP on Research Methodology in collaboration with Indian Institution of Industrial Engineering, Mumbai, April 23-27, 2018.
- Summer Internship Program on Design, Modeling & Implementation of Power Electronic Circuit for harnessing renewable energy sources, May 07 - July 07, 2018.
- Summer Internship Program (SIP-2018) on Designing & Fabrication of Power Electronic Circuits at Department of Electrical Engg., May 15 - July 02, 2018.
- GIAN Programme on Advanced Course on Sustainability in Materials & Design, May 21 - June 01, 2018.

Training & Placement/ Packages

Training and placement statistics till March 10, 2018

- Highest Pay Package Rs 40 LPA to students of Computer Science Engineering.
- Total number of companies visited the campus: Adobe, D.E. Shaw, Arcesium, Amazon, Goldman Sachs, Hero, JP Morgan, Maruti Suzuki, Bajaj, Deloitte, Denso, L&T, Vedanta, Resonance, Subros, HMEL, TATA Motors, Reliance, Suzuki Motors, and many more.
- Total number of offers given to the students: 438 (including B.Tech and PG courses).
- Companies like Reliance, Daikin have visited the institute to hire interns from 3rd year.
- 40 students from PG have been placed in different companies.

Branch	Students Placed	Highest Package (Company)
Computer Science	78	40 LPA (Adobe)
Mechanical Engineering	66	12.4 LPA (Futures First)
Chemical Engineering	60	12.93 LPA (Fidelity Investments)
Electronics and Communication Engineering	58	33 LPA (Arcesium)
Electrical Engineering	53	12 LPA (JP Morgan and Chase)
Metallurgy and Materials Engineering	40	12.93 LPA (Fidelity Investments)
Civil Engineering	35	12.4 LPA (Futures First)



Editorial



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