

MNIT NEWSLETTER

Issue 6, March 2013

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR



MNITJ NEWS



Director's Message

As we move into the next half of the Golden Jubilee Year, there is tremendous enthusiasm on the campus. The Institute hosted a large number of intellectuals and members of the academic world from all over India, and even from abroad, who came as participants, experts and guest speakers in the various national and international conferences, seminars and training programs organized. Eminent scholars from institutes and organizations of repute such as Kurnakov Institute of General and Inorganic Chemistry of Russian Academy of Sciences, Moscow, Kogakuin University, Shinjuku, Tokyo, Japan, CSIR-CEERI, Orsay, France, CEPT, Ahmedabad, and the IIT's, honoured the Institute with their presence and discussed significant developments in the fields of nuclear science, nanomaterials, microwave tubes technologies, and water desalination, to name a few. The annual Sports Tournament and the Blitzschlag 2013 kept the students on their toes too as they competed against a multifarious talent pool of teams both from within and from outside MNIT. All this interaction has, I am sure, generated new ideas, altered existing thoughts and brought into focus novel perspectives which will shape the nature of things to come.

JAI HIND

Prof. I. K. Bhat



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/ Short-Term Courses/Training Programmes Conducted



Open House with Metallurgical Professionals

❖ As part of the Golden Jubilee celebration of the MNIT, Department of Metallurgical and Materials Engineering organized an 'Open House with Metallurgical Professionals' on November 23, 2012. Eight senior metallurgical professionals representing RIICO, Universal foundry, Tirupati Carbon Products(P) Ltd, Sarada Industrial Enterprises etc participated in the workshop and closely interacted with the students and the faculty. The Open House was jointly organized by Prof. P.R. Soni & Prof. U. Pandel.

❖ The Department of Civil Engineering organized a Short-Term Training Programme for the RUIDP Engineers on "Urban Roads and Transportation Projects" from November 23 to 25, 2012. The training programme was designed to provide knowledge of different topics related to

roads and transportation projects. Around thirty engineers from the RUIDP participated in the training programme.



Participants of Short-Term Training Programme Urban Roads and Transportation Projects



Certificate Distribution: Training Programme

❖ The Department of Civil Engineering organized a Short-Term Training Programme for the DWSDC Engineers on their request on "Spatial Analysis Techniques & Creation of GIS Database for the Watershed Applications" from December 13 to 17, 2012.

The training was a part of the Watershed Development Programme of the Government of India. Planning and design of different watershed intervention works required a variety of information related to topography, soil, land use/land cover in addition to other non-spatial information. Twenty (20) officials of the DWSDC participated in the training programme.



Inauguration of Short-term Training Programme on Spatial Analysis Techniques & Creation of GIS Database for the Watershed Applications



Participants attending lecture : Planning and Implementation of Solar PV Plants

❖ A two-day Certificate course was organized at the Centre for Energy and Environment from December

10 to 11, 2012. The course was entitled “**Planning and Implementation of Solar PV Plants**”. The inaugural ceremony of the course was addressed by the Chief Guest, Prof. N.K.

Bansal, SINTEX Chair Professor, CEPT University Ahmedabad, and the Guest of Honour, Sh. A.K. Jain, MD, REIL. The speakers lauded the course content and stressed the need to organize more programmes for the industry personnel and the academia.

❖ A one-day Workshop on “**Scanning and Transmission Electron Microscopy: Sample Preparation and Studies**” was conducted at MNIT Jaipur on 18th December 2012. This event was organized by Department of Metallurgical and Materials Engineering in association with Materials Research Centre at MNIT Jaipur. 37 participants attended this workshop. Dr. Vinod Kumar, Dr. Rahul Singhal and Dr. Kamendra Awasthi were coordinators of this workshop.



Participants of workshop

❖ A Short-Term Training Programme sponsored by TEQIP on “**Six Sigma: Basics**

and Applications” was organized by the Department of Mechanical Engineering from December 17 to 21, 2012. Thirty five participants attended the course. The participants included faculty from different Engineering Colleges of Rajasthan and other states and medical practitioners.



Director's address to the participants of Six Sigma: Basics and Applications

❖ A Short-Term Training Programme on “**Soil & other material properties and base maps for Urban Infrastructures**” was organized by the Department of Civil Engineering from December 21 to 23, 2012 which was attended by nineteen participants. The training programme was one of the modules of series of training modules for RUIDP Engineers and was funded by RUIDP. The speakers included Dr. S. B. Singh (Former Head, Department of Civil Engineering, BITS Pilani), Dr. R. K. Mittal (Department of Civil Engineering, BITS Pilani), Mr. Trilok Gupta (CTAE, MPUAT, Udaipur) and faculty members of MNIT Jaipur. The lectures covered different aspects of materials like soil, concrete and steel.

❖ A National Conference on “**Water Quality Management**” **NCWQM-2012** was organized by the Departments of Civil & Chemical Engineering from December 20-22, 2012. The conference focused on highlighting recent issues and challenges facing drinking water supplies and bringing techno- managerial solutions to tackle the same. The Chief Guest for the inaugural function was Dr. Purushottam Agarwal, Principal Secretary, PHED and GWB, Rajasthan and Prof I.K. Bhat, Director MNIT Jaipur presided over the function. The brochure of Civil Engineering Department was also released in this function. The conference ended with Prof M. M. Dandekar Memorial address by Dr P. M. Modak, EMC.



Release of Brochure of Civil Engineering Department

❖ The Department of Mechanical Engineering organized a Short-Term Training Programme on the topic '**Computer Aided Strength of Materials and Analysis & Design of Machine & Structural Elements**' from December

24-28, 2012. Thirty participants were shortlisted from 10 different states attended the programme. Prof. I.K. Bhat, Director of MNIT Jaipur was the Chief Guest and Mr. Rahul Shirwadkar Assistant General Manager in Bosch Jaipur was the Guest of Honour for the inaugural session of the STTP on 24th December 2012. Coordinator of the course, Dr. Harlal Singh Mali deliberated about the agenda, speakers and participants of the STTP.



Director's address during Inauguration



Participants of the programme

❖ The Department of Humanities and Social Sciences organized an **International Conference on Empowering The English Language Classroom** from January 18-19, 2013. The conference was inaugurated

on 18th January, 2013. Dr. Preeti Bhatt and Mrs Nanny Tripathi were the Conveners of the conference. The Keynote Speakers in the Inaugural Session were Prof. Pramod Talgeri (Vice Chancellor, India International Multiversity, Pune) and Prof. Rukmini Bhaya Nair (Department of Humanities and Social Sciences, IIT Delhi), and the session was presided by Prof. Alok Ranjan. The Keynote Speaker of the Plenary Session was Prof. Pashupati Jha (Department of Humanities and Social Sciences, IIT Roorkee), and the session was chaired by Prof. Jasbir Jain (Director, IRIS, Jaipur).



Prof Rukmini Bhaya Nair making a point

❖ The International Conference on **Communication and Electronics System Design (ICCESD-2013)** was organized from January 28-30, 2013 by the Department of Electronics and Communication Engineering. The conference was inaugurated by the Chief Guest, Prof. R. K. Shevgaonkar, Director, IIT Delhi. Dr. K. K. Sharma and Dr. Vijay Janyani were the Conveners of the conference

ICCESD – 2013. Some notable speakers were Prof. M. Jagadesh Kumar of IIT Delhi, Prof. Cheng Tee Hiang of NTU Singapore, Prof. Annamária R. Várkonyi-Kóczy of Óbuda University, Budapest, Hungary, Prof. Pramod Varshney of Syracuse University, NY, USA, Prof Koichi Asatani of Kogakuin University, Shinjuku, Tokyo, Japan, Prof. Tokunbo Ogunfunmi of Santa Clara University, Santa Clara, California, USA who delivered expert talks on various topics ranging from communication engineering to VLSI.



Inauguration & Interaction with Experts

❖ The Department of Mechanical Engineering, organized a three-day International Conference on **Alternative Fuels for I. C. Engines (ICAFICE 2013)** from February 6-8, 2013.

The Conference was inaugurated by Chief Guest Prof. R. Natarajan, Former Director, IIT Madras and Former Chairman AICTE. Prof. I. K. Bhat, Director, MNIT Jaipur was the Guest of Honour for the event. Prof. Shyam Lal Soni, Mechanical Engg. Department and Prof. M. P. Poonia, Director, NITTTR Chandigarh were the organizing Chairpersons of the event and Dr. Dilip Sharma was the Convener of the conference.



Release of Conference Proceedings

❖ A Short-Term Course on **Communication @ the Workplace** was organized by the Department of Humanities and Social Sciences from February 18-22, 2013. The Course was attended by 34 participants from all over India which included faculty from various disciplines belonging to technical institutes. The focus of the Course was on providing intensive training in aspects related to enhancing communication skills of professionals. The Coordinator of the Short-Term Course was Dr. Nupur Tandon.



Participants of the course

❖ A two-day International Conference on Water Desalination, Treatment and Management (InDACON-2013) organized jointly by Departments of Chemical and Civil Engineering of Malaviya National Institute of Technology Jaipur, Indian Desalination Association (InDA), and CCDU, PHED, Rajasthan was inaugurated on 21st February 2013. Dr. Anil Kakodkar, an eminent nuclear scientist was the Chief Guest at the inaugural function. The Guest of Honour of the ceremony was Dr. Arnold Cole, WASH expert UNICEF, Rajasthan. The program was presided over by Prof. I. K. Bhat, Director, Malaviya National Institute of Technology, Jaipur.

❖ A two-day National Seminar on "Metallurgical Problems in Power Projects in India" was successfully organized by the department of Metallurgical and Materials Engineering in association with Central Power Research Institute (New BEL Road, Bangalore) from February 22-23, 2013. Prof. D. B. Goel was Chief Guest. Dr. J. Sunder Rajan and Er. S. S. Meena were Guests of Honor of the event and Prof. I. K. Bhat, Director

MNIT Jaipur presided over the function. General metallurgical problems faced with the materials used in power plants were thoroughly discussed. Total 25 lectures were delivered by experts and 60 participants including Ph.D., M. Tech. & B. Tech. students attended this seminar. Prof. Ashok Sharma was Convener and Prof. C. P. Sharma was Co-convener of this seminar.



Distinguished/Visitors/Expert Lectures in the Departments

❖ Dr. Vishnu Srivastava, Chief Scientist & Head, Microwave Tubes Division, CSIR-CEERI, delivered a lecture on "**Microwave Tubes Technologies & their Applications**" on January 11, 2013 in the Physics Department as part of the Golden Jubilee lecture series organized by MNIT Jaipur. He explained during his talk the indigenously built microwave tube in CSIR-CEERI which was used in ISRO space missions and motivated students to take

up research in the field of microwave tube. He discussed briefly the current challenges in the fields and also the current opportunities available for students in the Microwave tube divisions in CEERI.



Dr. Vishnu Srivastava talking about the current opportunities in CEERI Pilani

❖ Dr. A.K. Tyagi, Head Surface Science Division, Indira Gandhi Center for Atomic Research, Kalpakkam delivered a lecture on “**Nanomaterials, Nanostructures & Nanocoatings**” on January 16, 2013. organized by the Physics Department for the Golden Jubilee celebration of MNIT Jaipur. During the discussion session which followed the talk, he interacted with the students explaining the need to take up research in India, especially in nanomaterials.

❖ The Department of Chemistry organized an invited lecture on January 22, 2013 by **.Dr. Yuri Torubaev**, Senior Scientist, N. S. Kurnakov Institute of General and Inorganic Chemistry of Russian Academy of Sciences, **Moscow, Russia** on “**Hypervalent Bonding in Molecules and**

Crystals.” Altogether 60 people including faculty members, research scholars, M.Sc students (1st and IIIrd semester) and a few other department people attended this lecture and benefited from this cutting edge research area.



Lecture by the Expert

❖ Department of Metallurgical and Materials Engineering organized one invited technical lecture on 18th February, 2013. Dr. S. Das (Scientist G, Head, Metallic Composite Group, AMPRI, Bhopal) delivered this lecture on “Aluminium Foam: A Potential Functional Material”. This event was coordinated by Prof. P. R. Soni.

❖ Dr. J. C. Pivin Senior Scientist Orsay campus France delivered a lecture on “Ion Beams analytical techniques of thin films” on February 26, 2013 organized by the Physics department for the Golden Jubilee celebration of MNIT Jaipur. He also encouraged the students to take up research as their profession

❖ Department of Metallurgical and Materials Engineering has organized

the lecture of Mr. N. C. Mathur, Advisor, Jindal Stainless Limited (New Delhi) and discussed the opportunity of collaborative research work between MNIT Jaipur and Jindal Stainless Limited through the department of Metallurgical and Materials Engineering.

Awards / Recognition Received / Faculty's Achievements

❖ **Dr. Kamendra Awasthi** (INSPIRE Faculty, DST-Govt. of India) visited the Department of Chemical and Bimolecular Engineering, Faculty of Engineering, National University of Singapore, Singapore during 11th - 17th October 2012.

❖ **Dr. Harlal Singh Mali**, Assistant Professor in Mechanical Engineering Department was invited as Speaker in the CONCLAVE on '**Design the Future**' in Chandigarh. The full day conclave was attended by Principals, HOD's of Mechanical, Civil and Architecture disciplines of affiliated colleges from Punjab, Haryana and HP states along with Project Heads / Members from Leadership team of Manufacturing / Construction Companies.



Dr. Mali delivering the lecture

❖ **Dr. G. S. Dangayach** has won the 2011 Emerald Research Fund Award.

Dr. G. S. Dangayach was also co-opted as Member of Production Engineering Division Board of The Institution of Engineers (India), Kolkata.

Students' Achievements

❖ As part of the Golden Jubilee Celebrations & with an aim to provide guidance to the budding writers of the college, the Literary Society organized a "**Panel Discussion – Creativity & Challenges**" on January 25, 2013. Some young authors of the literary world - Annie Zadie, Mridula Koshy, Jugal Mody and Gaurav Solanki along with a reputed poet, Anil Verma were invited. In the two hour long event, the students savoured the interaction with the guests who recounted some of their interesting experiences & challenges in the journey of being successful writers and poets. The creativity comes from the reality around us and these writers revealed how to shape that into a beautiful creation. The

audience absorbed the guidelines to face all sorts of challenges that confront creativity.



Young authors in discussion during session

❖ The **Department of Management Studies**, MNIT organized a one-day industrial visit on February 1, 2013 for the 2nd Semester MBA students to CONCOR India, a dry port at Kanakpura, Jaipur. Students got a chance to interact with Mr. Najakat Husain, Assistant Commissioner (Customs), Jaipur in charge of this dry port. Mr. Naval Arora (Guest Faculty, DMS), teaching International Business accompanied students and discussed the relevance of the visit in the context of the classroom teachings.



Industrial visit of MBA students

Other Activities

❖ An MOU was signed between MNIT Jaipur and CSIR-CGCRI Calcutta on 1st February 2013 with a view to developing and carrying out collaborative activities of common interest like research and consultancy projects. On behalf of MNIT Jaipur, Prof. I. K. Bhat Director, MNIT signed on MOU and Dr. Kamal Dasgupta signed on behalf of CSIR-CGCRI. Prof. U. Pandel and Prof. A. K. Bhargav were present at this occasion.

❖ On the occasion of the **National Science Day**, Department of Physics organized a program which included a Quiz Competition and Talks by two eminent resource persons: Prof. B.K.Srivastava, and Prof. Sudhir Raniwala, both from the Department of Physics, University of Rajasthan.

❖ Music Society (Creative Arts) organized an evening dedicated to our beloved late singers on 8th February named as Symphony'13. As expected it created a rejuvenating and melodious atmosphere in the vicinity of the LT-25. Keeping in mind the requests of the members, Music Club also organized a guitar workshop for 12 days starting from 16th February.

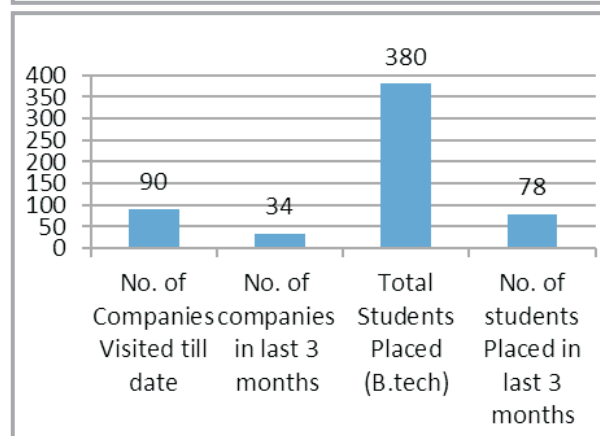
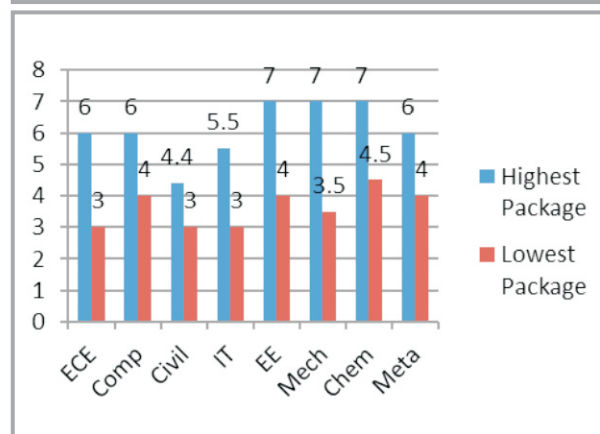
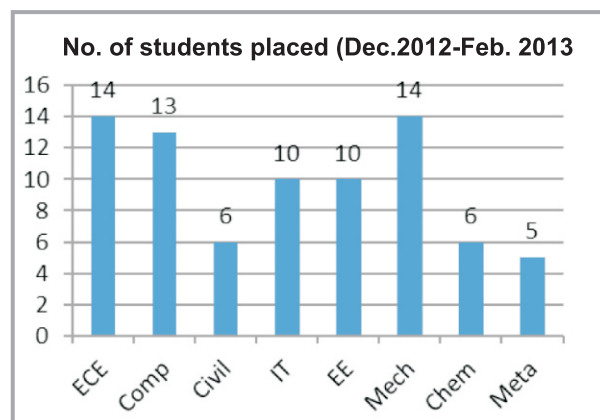
❖ **Blitzschlag'13** exhilarated thousands of visitors from all over the country. Organized by the **Creative Arts Society** of the

college, the four daylong events from February 28 to March 3 provided a plethora of events from various societies. From worthy workshops of the day to scintillating Grand Nights, Blitzschlag'13 witnessed massive footfall and participation from various colleges.

Following the theme of "Pirates", the event created thorough ambience in the campus. Some of the major attractions of the day were the first ever Film Festival of MNIT, the inspiring Talk Show on India v/s Bharat, showcase of some photographic masterpieces in Moments, the competition of some gifted singers in Taal, the battle of Computer Freaks in Labyrinth, the incredible Bike Stunts & the trendy Blitz Persona. **Ramba Samba**, the dance competition commenced the megafest in style followed by the entertaining performance by Nitin Gupta (Rivaldo) on the next night. The third day was for the fashion enthusiasts as Panache set the stage on fire with Miss Asia Pacific 2012, Himangini Singh Yadu in the spotlight.

❖ The Literary Segment of Creative Arts successfully organized 5 events on different levels. One of the major attractions of the entire fest was the **Talk Show** on India v/s Bharat which drew the attention of people from all age groups. Many social workers who've seen the situation of the nation from different perspectives shared their opinions. **Kavyashala**, exhibited the talented poets of our mother tongue. **Fact & Furious**, the GK Quiz witnessed over 100 entries. Along with these, people tackled the pitfalls in **Aesthetica**, the Creative Writing Competition & **Wordathlon**, the competition on grammar.

Placements December-February 2013



Editorial Team -

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Note : The information published has been received from the respective departments / sections / faculty.