

MNIT NEWSLETTER

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MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

MNITJ NEWS

the quarterly news magazine

Director's Message

Technical education entails learning and transfer of knowledge and skills from one generation to the next through pedagogy, training and research. We would not be able to maintain high standards if we did not fuel our system by new theories, evolved new methods or employed new tools. After all, education is aimed at inculcating the quality of 'how to think and not what to think'.

The activities in the Institute reflect these principles and in this quarter too, workshops, training programmes and seminars were organized on a variety of topics such as adaptive signal processing, energy efficiency, operational intelligence and many more. Such programmes, which have now become a regular feature on our campus, help in developing a better understanding of the applications of science and technology and their relevance to today's society. Eminent speakers, experts in their respective fields, shared their vast repertoire and numerous faculty members and students benefited by their enlightening talks. The Institute also received funding for some significant research projects and entered into collaborations with institutes of repute. The Athletic Meet, an annual feature, was also organised in this quarter and saw enthusiastic participation of students. Sports inculcate a sense of discipline and professionalism which is so essential in today's competitive environment. It was indeed heartening to note the zeal with which our students performed in all the events. Republic Day was celebrated with patriotic fervor, as we reiterated the ideals of our forefathers, spurring ourselves towards excellence.

It has rightly been said, "Difficult roads often lead to beautiful destinations". Persistence, patience and perseverance, combined with the determination to make one's mark, are what will eventually lead us towards our goals. I am confident that NIT Jaipur will continue to meet the challenges by providing quality education and research opportunities.

Happy Holi and 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

❖ A TEQIP and IIIE Sponsored STTP on 'Six Sigma Tools and Applications' was organized by Department of Mechanical Engineering from December 16-20, 2013 at MNIT Jaipur.



❖ The Department of Electronics and Communication Engineering organized a one week Faculty Development Program (FDP) on "Advancements in Adaptive Signal Processing" AASP-2013 from December 17-21, 2013. The inauguration was held in the presence of Prof. I. K. Bhat, honorable Director MNIT, Chief Guest Prof. Ganapati Panda, FNAE, FNASc and former Dy-Director of IIT Bhubaneswar, Prof. V. Sahula, Head ECE and Dr. S. J. Nanda the Coordinator of AASP-2013. Forty-seven participants from eight states participated in the event. Prof. S. D. Joshi of IIT Delhi, Prof. Ajit Kumar Sahoo of NIT Rourkela, and Dr. Abhijeet Karmakar of CEERI, Pilani delivered keynote



lectures in the FDP. Dr. S. J. Nanda conducted special LAB sessions in which the modelling and simulation were practiced in MATLAB environment. The FDP was partially funded by TEQIP-II of MNIT Jaipur and in part by Agmatel India Ltd.

❖ Department of Electrical Engineering organized a five day Short Term Training Program (STTP) on "Role of Power Electronics in Modern Electrical System" from December 23 – 27, 2013. Prof. K. K. Aggarwal, Chairman Board of Governors MNIT Jaipur was the Chief Guest and Prof. S. K. Biswas, Department of Electrical Engineering, Jadavpur University, Kolkata was the Guest of Honour. The function was presided over by Prof. I. K. Bhat, Director MNIT Jaipur. The Principal Coordinator was Prof. R. A. Gupta and Coordinators of the STTP were Dr. H. P. Tiwari and Dr. Nitin Gupta. The aim of this STTP was to develop an understanding of the areas like Renewable Energy (Solar, Wind, Hybrid) etc. where Power Electronics contributes effectively with massive potential. It also dealt with applications like Smart Grid, Power Quality, Pulse Width Modulation methods, New and Improved Topology based converters with modelling and



implementation using high speed controllers. Approximately 70 participants from different parts of the country attended the STTP.

❖ The Center for Disaster Mitigation and Management organized a special workshop on "Advance Developments in Beam & Plate Theories and Structural Dynamics" from January 4 - 6, 2014. Eminent speakers: Prof. J N Reddy, Texas A & M University, USA; Prof. T K Datta, Indian Institute of Technology Delhi and Prof. CS Manohar, Indian Institute of Science Bangalore, delivered special lectures. There were forty-five participants from different Institutions which include: IITs, NITs, IIITs, CFTI and many government and other Institutions. The program was supported by TEQIP-II.



❖ A round table discussion on 'Sustainable Jaipur' was organised by CEE on November 25, 2013. Approaches adopted in the USA and specifically by the city of Fremont were presented in the meeting along with discussions on identification of corresponding approaches for Jaipur. Topics covered broadly included Energy, Water and Waste water, Solid waste, Residential and

Commercial infrastructure, and Transportation, besides discussions on sustainable urban development and expansion of cities. The event was followed by signing of MoU between the City of Fremont, USA and Jaipur in this regard.



❖ A workshop on 'Energy Efficiency Homes' was organized by **Centre for Energy and Environment MNIT Jaipur** in collaboration with National Housing Bank and TERI on December 20, 2013. More than 25 professionals, faculty members and researchers attended the event.

❖ A two-day **Western Music Workshop** by the renowned German Guitarist Mr. Matthias Müller was organized by the Music Society under the auspices of The Creative Arts and Culture Society (CACs) from January 16-17, 2014. All the student members of the Music Society participated in the Workshop. During the Workshop Mr. Müller explained the nuances

of 'jazz' and 'blues' to the students and demonstrated various scales and pieces on the electric and the acoustic guitar. He presented on the guitar famous musical compositions which were based on jazz. Mr. Müller also explained the difference between Hindustani classical instrumental music and Western instrumental music to the students. Mr. Müller encouraged the students to imbibe and learn to play new forms of music and also improve their musical skills through practice. All the participants appreciated the two day interactive Western music workshop.



Practices After Global Financial Crisis in Indian Companies: Behavioural Finance Approach" for Rs 7 lakhs by **Indian Council for Social Sciences Research (ICSSR)** has been awarded to Dr. Satish Kumar, Assistant Professor, Department of Management Studies for a project duration of 18 months.

❖ A Memorandum of Understanding (MoU) between **Malaviya National Institute of Technology Jaipur and National Institute of Hydrology, Roorkee Uttarakhand** has been signed to promote academic and research cooperation and the development of these two institutions as Centres of Excellence of higher and technical education and scientific research and development in the country. Both have common research and collaboration interest in the areas of water resources,

Projects /Civil Works /Research Grant Received

❖ Dr. Rajkumar Joshi of **Department of Chemistry** has been sanctioned a project on "New Perspectives to Advance Green Medicinal Chemistry" by the DST New Delhi and NRF South Africa. The duration of project is from 6th January to December 31, 2016, and the sanctioned amount Rs. 50,85,000/-.

❖ A Research Project on "**Determinants of Working Capital Management**

hydrology and allied fields. Er. R.D. Singh, Director NIH, Roorkee and Dr. I.K. Bhat, Director MNIT Jaipur, signed the MoUs in presence of Dr. Rohit Goyal, Dean R&C, MNITJ, Prof. A.B. Gupta, Prof. Sudhir Kumar, Dr. Suja George and Dr. R.K. Vyas, faculty MNIT Jaipur and Dr. Archana Sarkar, Sh. K.P. Singh, Sh. J.K. Chourasia, Sh. Rajneesh Geol, Officials NIH Roorkee.



Signing of MoU between MNIT and NIH Roorkee



Signing of MoU between MNIT and NIH Roorkee

Distinguished Visitors/Expert Lectures in the Departments

❖ The Department of Civil Engineering held two presentations for introducing career opportunities in Real Estate and use of IT in the construction Industry. A representative from **The Royal Institution of Chartered Surveyors London- RICS**, which is the world's leading self-regulatory professional body for qualifications and standards in land, property, construction and associated environment issues, presented a lecture on **“Career opportunity available in the Construction & Built up environment”** on January 22, 2014. A presentation on using Primavera software in the construction industry was scheduled for faculty and

students on January 30th 2014. Both the events were coordinated by Dr. Sandeep Shrivastava, Assistant Professor in the Department of Civil Engineering. The Department also bought Software STRUDS and ESRGSR and held one-day training on 15th January in the computer lab. Recently, Prof. M. K. Shrimali and Prof. R. C. Gupta were sponsored to attend WOS A 2014 which was held of New Delhi from March 8 - 12, 2014.

❖ A lecture was organized by Office of Dean R&C on the topic **“Analytics over Big Data for Operational Intelligence”** on January 24, 2014. It was delivered by Dr. Chetan Gupta, Principal Scientist and Architect at HAL R&D Big Data Lab, USA. A large number

of UG, PG and Ph.D Students of Computer Science, Electronics and other branches as well as. Faculty members from Computer Science, Civil, Chemical, and Electronics were present. Dr. Chetan gave an inspiring lecture about the analytics of Big Data. Lecture continued for more than one & half hours and was followed by large number of questions and answers. Overall the lecture was a



Lecture by Dr. Chetan Gupta

huge success.

❖ **Prof. Dilip Chhajed from Illinois University visited MNIT on December 31, 2013.** Prof. Chhajed gave an overview of various areas of research in his organization and discussed in detail about his area of expertise strategy, operations/marketing interface, product/process design, and sustainability. He is presently working in the area of lean management in services. Discussions were held about feasibility of a joint programme in management with the American University. Further, there were initial discussions about joint research options between the two universities, student exchange options for MBA and PhD.

❖ **Prof. Braj Sinha, Professor of Social Science at University of Sasketchwan and former President of Shastri Indo-Canadian Institute, Canada visited Department of Humanities and Social Sciences on February 06, 2014.** He later met the Director MNITJ and discussed with him the possibilities regarding research and collaboration between the two institutes.



Students Achievements

❖ An Award ceremony of Sivananda Memorial Scholarship was held on January 21, 2014, in the presence of Swami Ygvedantnandaji who blessed the occasion and delivered a Special Lecture on "Key to Success". The following students were awarded Swami Sivananda Memorial Scholarship:

- (1) Manish Sharma
- (2) Pushkal Agrawal
- (3) Lovely Sinha

(4) Mohit Maheswari
Each was given a cheque of Rs 24000/- and a certificate.

❖ The Department of Management Studies, MNIT Jaipur organized a **Finishing School for Engineering Students** from January 27-31, 2014. The program was coordinated by Dr. Deepak Verma and Dr. Satish Kumar from the department. The program was sponsored and funded by TEQIP cell of MNIT Jaipur. A total of 61 students, 47 from MNIT Jaipur and 14 from other engineering

institutions from Rajasthan predominantly in their third or fourth year of Engineering registered for the program.

❖ The program focused on grooming skills related to formal and informal communication, enhancing personal effectiveness, understanding basic business functions and soft skills necessary to foster personal and professional success of engineering graduates. Key resource persons were Mr. Harinder Singh, Director (Technical), Department of Official Languages, Ministry of



Prof. GS Dangayach presenting a memento to Mr. Harinder Kumar, Director-Technical, Department of Languages, Ministry of Home Affairs, Govt. of India



Dr. Satish Kumar presenting a memento to Prof. Urvashi Makkar, Director, IMS Ghaziabad

Home Affairs, Govt. of India, Prof. Pankaj Sharma from CDLU Sirsa, Dr. Shweta Kushal from IIM, Indore, Prof. Urvashi Makkar, Director, Institute of

Management Studies, Ghaziabad and Dr. Anil Sethi, a well-established corporate trainer and MD – Systematic International Education and Management Services, New Delhi.

Other Activities

❖ The Annual Athletic Meet was held from January 18 -19, 2014 and was an event of great buzz in which over 500 students participated. Prof. I.K. Bhat, Director, MNIT Jaipur wholeheartedly supported the meet throughout and motivated the budding athletes personally Dr. S.D. Bharti was the convenor of the meet. The opening ceremony of the meet started off with great zeal with the Chief Guest being Shri Rakesh Verma (Alumni, Additional Chief Secretary, Govt. of Rajasthan). Events included races ranging from 100-3000 metres, Discus Throw, Javelin Throw, Shot Put etc. A fun event of tug of war took place between the faculty and students.

The Closing Ceremony of the meet was graced by the presence of the Chief Guest Mr. Magan Singh Rajvi (Arjun Awardee), captain of Indian Football team, along with Prof. M.K. Shrimali (Dean SW) who gave away prizes to the winners of the meet and also inter-branch competitions. The overall championship trophy was bagged by the **Civil Department**. Mr. Alok Saini was adjudged the Best Athlete in the men's category and Ms. Aditi Rai in the women's category. Mr. Golu Kumar received the award for the Promising Player 2013-14 in the Men's category and Ms. Kanika Gupta received the same in the Women's category.

❖ A program on "**Self Discovery**" was organised by Creative Arts Society in which a video presentation of **Prem**

Rawat's message on need for fulfillment, developing self worth, personal dignity and peace in life was shown on January 23, 2014. The program was attended by students, staff and faculty members. The program was presented by GPI team members led by Advocate P D Kumawat which was well received by the audience. The Republic Day was celebrated with much zeal. The national flag was hoisted by Prof. I K Bhat Director, MNIT Jaipur and he was escorted by Dr. Subir Debnath, Sports Officer. A play "Right to Vote" was performed by students to create the awareness among the youth especially to cast their valuable vote for proper constitution and good governance. Prof. I K Bhat Director, MNIT Jaipur addressed the gathering mentioning all the achievements and laurels brought by the institute. A street play competition was also organized by the Creative Arts Society. At the end of the competition prizes were awarded to winners by Mrs. I.K. Bhat as Chief Guest.

❖ दिनांक जनवरी 6-8, 2014 को संस्थान में मानव संसाधन विकास मंत्रालय के राजभाषा एकक के दो सदस्यीय निरीक्षण दल ने दौरा किया। इस अवसर पर दल को राजभाषा समन्वयक

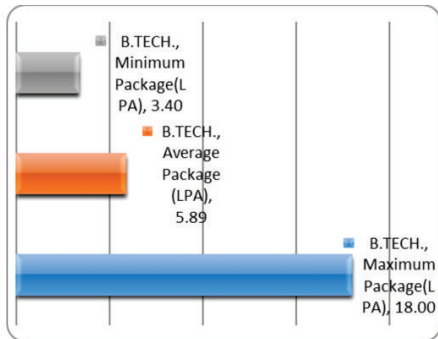
की ओर से संस्थान में आयोजित की गई राजभाषा की गतिविधियों की जानकारी दी गयी और निरीक्षण दल के द्वारा चाहा गया सूचना परफोरमा भर कर उपलब्ध करवाया गया। अपने निरीक्षण के दौरान इस दल ने कुछ सुझाव दिये, कि संस्थान में सभी सूचनाये एवं अधिसूचनायें आवश्यक रूप से द्विभाषी जारी हों सभी सूचना पट्ट, नेमप्लेट्स, सभी रबर मोहरे आवश्यक रूप से द्विभाषी हों और दैनिक रूप से काम आने वाले रजिस्टर के नाम एवं शीर्षक आवश्यक रूप से द्विभाषी हो, दल को गत सितम्बर माह में सम्पन्न हिन्दी पखवाडा समारोह के बारे में भी जानकारी दी गयी, अपनी प्रतिक्रिया में निरीक्षण दल ने इस पर प्रसन्नता प्रगट की, अपने इस दौरे के साथ ही निरीक्षण दल ने संस्थान के निदेशक महोदय, कुलसचिव एवं सहायक कुलसचिव से भी औपचारिक भेंट की निरीक्षण दल ने पुस्तकालय का भी दौरा किया और पुस्तकालयाध्यक्ष से मुलाकात की।





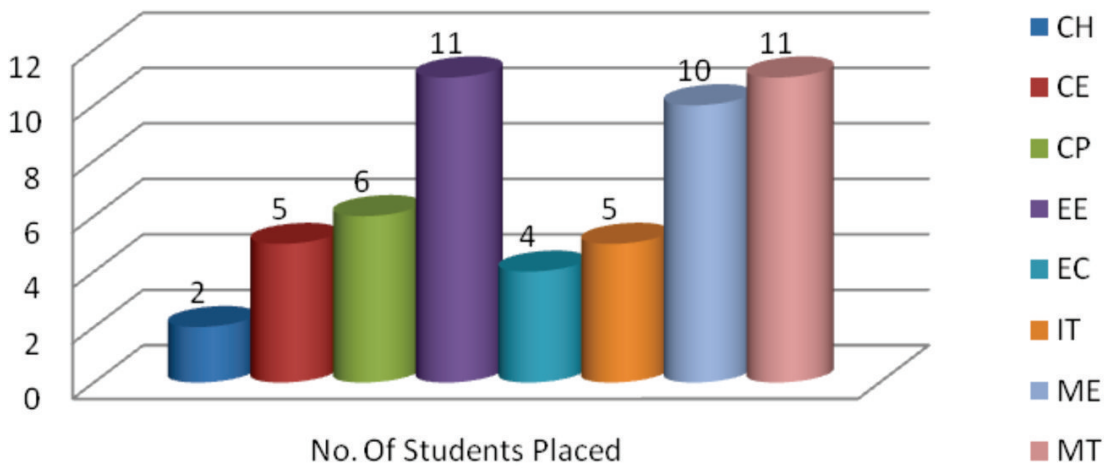
BRANCH-WISE PLACEMENT STATISTICS DEC 2013-FEB 2014

BRANCH	No. Of Students Placed	Maximum Package (LPA)	Average Package (LPA)	Minimum Package (LPA)
Chemical Engineering	2	3.75	3.75	3.75
Civil Engineering	5	4.00	3.95	4.00
Computer Engineering	6	5.50	5.12	5.00
Electrical Engineering	11	9.20	5.19	4.00
Electronics & Comm. Engineering	4	5.00	4.57	3.80
Information Technology	5	5.50	5.04	4.50
Mechanical Engineering	10	5.50	4.17	3.75
Metallurgical & Materials Engineering	11	4.75	4.04	3.75
Total	54	9.20	4.48	3.75



M.Tech. CHEMICAL ENGINEERING	1	5.22	5.22	5.22
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BRANCH WISE PLACEMENT STATISTICS DEC 2013-FEB 2014



Snippets

- 1743 Martin H Klaproth, German chemist discovered Uranium.
- 1906 Peter Carl Goldmark developed color TV and LP records.
- 1937 Stephen Rubin, English shoe manufacturer, invented the Reebok and Adidas line of shoes.
- 1761 Madame Tussaud invented the Wax Museum.
- 1832 French engineer, Alexandre Gustave Eiffel built the Eiffel Tower.
- 1852 Antoine Henri Becquerel, the scientist who discovered radioactivity. Nobel Prize 1903.
- 1792 Charles Babbage, English inventor who invented a Calculating Machine.
- 1643 Isaac Newton, a noted physicist, mathematician, and astronomer, who invented a Telescope.
- 1797 Wilhelm Beer, German astronomer, made the first Moon map.
- 1874 Joseph Erlanger invented Shock Therapy. Nobel Prize 1944.
- 1870 Joseph B Strauss, Civil engineer, built the Golden Gate Bridge.
- 1736 James Watt, Scottish inventor who invented a Steam Engine.
- 1809 Charles Darwin, English scientist, discovered the theory of evolution and wrote the "Origin of Species".
- 1867 William Cadbury, English chocolate manufacturer, founded Cadbury.
- 1874 Thomas J. Watson, American scientist, founded IBM.
- 1898 Enzo Ferrari, Car manufacturer, invented the Ferrari.



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