

MNIT NEWSLETTER

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MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

MNITJ NEWS

the quarterly news magazine



Director's Message

It has been rightly said, 'The principal goal of education is to create individuals who are capable of doing new things, not simply of repeating what other generations have done'. An institute of learning develops individuals as citizens who are capable of making a difference to the society they are living in by putting their knowledge, skills and experience to proper use. Merely earning a degree is not education-to be considered truly educated, one has to be cognizant of the constant changes around him or her and, also, be willing to adapt to them. New technologies, and novel methods of research and teaching have opened up avenues as never before and as the country gears up to meet fresh challenges, she requires professionals who can deliver. Various seminars, conferences and workshops and invited talks at MNIT Jaipur in this quarter have brought together the best brains to deliberate upon advances made in a wide variety of current and rather relevant areas such as pulsed laser deposition, nano-crystals, and wireless sensor networks. Our faculty members, too, have been to various countries as experts and distinguished professionals and have brought with them new concepts, one of which resulted in the setting up of 'Saarthi', the Student-Student Mentorship Program which aims at interaction of students with their seniors as well as their teachers so as to generate a better understanding and create an environment conducive to real learning. The fresh entrants to the Institute this year were, thus, welcomed with such initiatives which, we hope, will help them in pursuing their education with confidence, diligence and creativity.

It is the time of festivals and I take this opportunity to wish all of you joy and prosperity.

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 two-day workshop on “Application of Wireless Sensor Networks for Disaster Management” was organized by **Department of Computer Science & Engineering and National Center for Disaster Management and Mitigation** during June 17-18, 2014. The research challenges of WSN include new protocols, time constraints, power management, security & privacy, localization, topology control, dependability, self-calibration, self-healing, data aggregation, query processing, and sensor processing & fusion under limited capacities.

Prof. Dharma P. Agarwal, Ohio Board of Regents Professor, University of Cincinnati was the main resource person. He introduced the concept of Wireless Sensor Networks and also handled the recent advances and research challenges

Research Institute, Roorkee discussed the natural hazards in Himalayas, their challenges and mitigation. He presented a visual overview on many hazards like Earthquake, Volcano, Landslides, Floods, Cyclones, Drought, and Tsunamis and discussed many disasters in Uttarakhand. Dr. Kota Solomon Raju, Principal Scientist, CEERI Pilani combined the two domains and gave practical insights into some of the projects at CEERI. Faculty and Research scholars of the Computer Science Department presented their work on Internet of Things for Disaster Management and Underwater Wireless Sensors for handling disasters like Floods and Tsunami.

The workshop had 43 participants from 7 states including 25 student volunteer-participants (M. Tech and Ph. D) from MNIT Jaipur. Prof. M. C.

Emmanuel Pilli and Dr. Rajib Sarkar were the coordinators. The programme was funded by TEQIP II.

❖ A one-day workshop on Indigenous Technology in Global World: A Case Study was organized by the **Department of Metallurgical and Materials Engineering** on June 30, 2014. Eminent speakers from IIT Kanpur and CSIR laboratory delivered expert lectures and motivated youngsters to develop indigenous technology for sustainable development.

❖ A five-day workshop was organized for newly appointed Ministerial and Technical Staff (Lower & Higher Cadre) of MNIT Jaipur to upgrade their computer operating skills. The Coordinator of the workshop was Dr. Namita Mittal. The workshop focussed on efficient utilization of internet, cloud computing, e-mails, MS office and other tools. The workshop was held from June 30- July 4, 2014 at Software Lab in Computer Engineering Department for 35 participants.

Dr. Namita Mittal threw light on internet and its uses and importance. A presentation was imparted by Dr. Emmanuel S. Pilli on cloud computing concepts and potential opportunity in the same. Mr. Santosh Kumar Vipparthi described in their presentation about drafting and sending e-mails. Mr. Arka Prokash



Dr. Santanu Sarkar, Chief Scientist, Central Building

Govil and Prof. M. K. Shrimali were the convenors and Dr.

Mazumdar made in-depth presentation on MS Excel on its basics, functions and formulas. MS-Word & MS-PowerPoint were the highlights of fourth day, explored by Mr. Mazumdar. Participants learnt about developing Note-sheet, application and other documents. Mr. Dinesh Kumar Tyagi described the basic functions of MS-PowerPoint and presented a very useful lecture on how to develop presentations & slideshow for various purposes.

❖ **The Department of Computer Science & Engineering**, organized a one week Faculty Development Program (FDP) on “Advanced Wireless Networks” from 30th June to 4th July, 2014 for faculty members, research scholars and M. Tech. students under TEQIP-II. The FDP targeted the various crucial issues which advanced wireless networks are facing today such as bandwidth, latency, area of coverage, cost, and quality of service (QoS) provisioning.

Prof. M.S. Gaur & Dr. Vijay Laxmi



were the Conveners of the program while Mrs. Meenakshi Tripathi & Mr. Ramesh Babu Battula were the Coordinators. The experts from various IITs, NITs and senior industry professionals, contributed during the programme. Prof.

Preetam Kumar, IIT Patna, Prof. Y. N. Singh, IIT Kanpur, Prof. Shirshu Verma, IIIT Allahbad, Prof. Solomon Raju, CEERI Pilani, Prof. D. K. Mishra, SAIT Indore, Prof. Rama K. Challa, NITTR Chandigarh, Prof. Vijay Rao, DRDO Delhi, Prof. Kumkum Garg, MIT Jaipur, Prof. M. S. Gaur, MNIT Jaipur and Prof. Rajesh Kumar, MNIT Jaipur have given their expert lectures.

❖ A two-day workshop on Professional Communication for faculty members of the Institute was organized by the **Department of Humanities and Social Sciences** from 10-11 July 2014. The Workshop was inaugurated by the Director Prof I.K. Bhat and was coordinated by Dr. Preeti Bhatt and Mrs. Nanny Tripathi. Forty-five faculty members and research scholars of the Institute participated in the workshop. Experts like Prof SatishBatra, Justice Vinod Shankar Dave, Prof. Santosh Gupta, Dr Jyoti Pahwa, Ms Harsha Rohit and Ms Aarti Chopra conducted different sessions of the workshop on topics like Professional and Personal Excellence, Public Speaking Skills, Active Listening, Interpersonal Communication, Attitude Matters and Conflict Management.

❖ A five-day Short Term



Course was organised by the **Department of Metallurgical and Materials Engineering** on “Energy and Environment Management in Foundries” from July 10 – 14, 2014 for faculty members, research scholars, M.Tech students and people from Industry in association with Institute of Indian Foundry-men JAIPUR Chapter.

Total participants were 50. The experts came from different industry and Institute of the



country. The conveners of the workshop were Prof. Ashok Sharma, Prof. Upender Pandel and Dr. Rajendra Kumar Duchaniya.

Projects / Civil Works / Research Grant Received

❖ Dr. Srinivasa Rao Nelamarri, Assistant Professor in the **Department of Physics**, has been sanctioned a "Science and Engineering Research Board" (SERB) sponsored project (Young Scientist Award) entitled “Tuning the structural, optical and electrical

properties of Au nanocrystals embedded in dielectric oxide layers for nonvolatile memory applications” by SERB, New Delhi. The duration of the project is June 2014 - May 2017 and the total sanctioned amount is Rs. 23,20,000.

Distinguished Visitors/Expert Lectures in the Departments

❖ A seminar was delivered by Dr. Burkhard Fechner, Germany, on “Technological



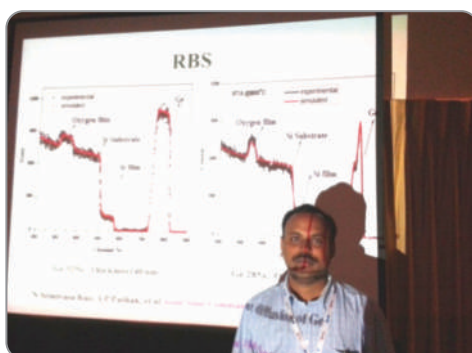
Progress in Pulsed Laser Deposition”, on 18th July, 2014 at the **Materials Research Center**. The speaker presented the importance of Pulsed Laser deposition and their applications by reviewing the past and present status. The talk highlighted that the pulsed laser deposition is one of the most promising routes for stoichiometry preserving atomic layer.

Visit/Expert Lectures delivered by Institute Faculty

❖ Dr. Srinivasa Rao Nelamari, gave an Invited Talk

on the title “Ion beam induced effects on nano-crystals, alloys and high-k dielectric films” during 23rd International Conference on Application of Accelerators in Research and Industry (CAARI-2014)” which was held in San Antonio, Texas, USA during May 25-30, 2014.

❖ Dr. Ritu Agarwal of **Mathematics Department**



presented paper “Mathematical Modeling for perishable product supply chain under inflation and variable lead time” in the international conference organized by University Putra Malaysia at Kuala Lumpur, Malaysia, during May 27-30, 2014.



❖ Dr. Rajendra Kumar Duchaniya, Assistant Professor, **Department of Metallurgical**

and **Materials Engineering** was presented a paper on “Optical

studies of chemically synthesis CdS nanoparticles” in International Conference on Industrial, Mechanical and Manufacturing Engineering (ICIMME'14) at Pattaya, Thailand from June 23-24, 2014.

Faculty Achievements

❖ DAE Young Scientist Award for year 2014-15 has been awarded to Dr. Vinod Kumar, Assistant Professor (Metallurgical and Materials Engineering) & Adjunct Faculty (Materials Research Centre). The award money of 16,15,000/- (INR) for three years beginning from financial year 2014-15 has been sanctioned on the basis of recommendation of the Advanced Technology Committee of Board of Research in Nuclear Science (BRNS).

❖ Dr. Satish Tailor has been awarded Post-Doctoral Fellowship of National University of Science And Technology (NUST), Moscow. Under this program Dr. Satish will be working for a period of two years at NUST Moscow. Dr. Tailor is among 10 students selected from worldwide for the Post-Doctoral Program of NUST.

Dr. Sushant Upadhyaya Assistant Professor, Chemical Engineering Department was awarded the prestigious National Awards for Technology Innovation in Petrochemical and Downstream Processing

Industry on July 17, 2014 by Honorable Union Minister for Chemicals and Fertilizers Government of India, Shri Anath Kumar and Minister of State Chemicals and Fertilizers, Shree Nihal Chand.

Dr. Sushant Upadhyaya has been given this award in the field of **Polymer in Agriculture and Water conservation** with a shield, citation and cash prize.



Students Activities / Achievements

❖ The FAREWELL DINNER was celebrated with much zeal. A new concept was introduced with the Flame of Candle. Prof. I K Bhat Director, MNIT Jaipur, lighted the candles of each Head of the Department and students followed from their respective Departments. The event was managed by Dr. Subir Debnath, Sports Officer. The evening started with DJ music and then formally Prof. M.K. Shrimali took over the stage with his welcome speech, followed by Prof. I K Bhat Director who blessed the passing out students of UG and PG.

Launch of Student-Student Mentorship Programme

As an offshoot of his visit to the University of Illinois, Urbana Champaign, USA during December 2013, Prof. Rohit Goyal gave a presentation to Board of Governors in which he also talked about starting a Student-Student Mentorship

Programme, as he had learned during his visit, with proper modifications to suit MNIT Jaipur. As a result, a team of dedicated students, led by Dr.



Rohit Goyal (Dean, Planning and Development) opened a new and one of a kind Chapter in the history of Malaviya National Institute of Technology Jaipur, under the guidance of Director,



Prof. I.K. Bhat. Saarthi, as it will be called, is a Student-Student Mentorship Program in which a network of senior students would be guiding the new entrants as they take their first steps into the Institute. Saarthi aims at increasing the interaction of a mentee with seniors as well as the teachers and to make the transition in their life from the comfort of home to reality of competitive life as a college student, as smooth as possible. Saarthi aims at increased involvement of students in all the activities of the college. One or two chief mentors would be selected from each UG branch every year. Under each chief mentor would be five to six mentors and under each mentor, there would be one or two sub-mentors. Each branch would be divided into five or six teams, each consisting of around twenty mentees (freshers), two sub-mentors and one mentor. The SSMP got off to a flying start with its launch at the 3 day orientation program for the institute freshers. The program

included multiple activities like orientation programme, campus visit, campus clean drive, plantation, poster competition, motivational talks and cultural events.

❖ An Orientation - cum-Awareness Programme was organised for the Mentors (about 40 UG senior students) on August 8, 2014 in Central Library, where a PPT presentation was conducted and they were detailed about Library and Information Services, Applications of ICT and Modernisation of Central Library, general rules and regulations etc. to share further to all newly admitted / registered students on their visits between 11th to 13th August, 2014.

All the new entrants of UG 2014 (10 groups from A to J) with their Mentors visited the Library between 11th and 13th August, 2014. During the visit they took a round of all sections of library as well and were made aware about the latest applications implemented and being followed.

various disciplines working under guidance of Dr. Rajesh Kumar from Electrical Engineering Department and various alumni working in reputed firms and doing research in Universities in India



Founders ZINE: Dr Rajesh Kumar (center),(from left to right) Anupam Kumar, Devendra Sharma Arpit Jain, Soniya Jain

and abroad. Founders Zine: Dr Rajesh Kumar(center),(from left to right) Anupam Kumar,. Devendra Sharma Arpit Jain,



Soniya Jain
Zine has been the only active robotics and research group of MNIT for the last 7 years, since its foundation. The group has participated in various national and international events related to a multitude of fields, have carried out core research with publishing research articles in reputed publications like IEEE journals etc and

provides services to industry like consultancy related to automation through embedded system based solution for Micro, Small, Medium scale enterprises (MSME).They have got two Patents approved and won several awards including the PGCIL challenge, New Delhi and 1st prize in 'Innovations for Everyone' organized by 'National Geographic Channel' and 'Volkswagen' for developing a novel 'Electronic Goniometer for Biofeedback'. A team of five from Zine visited the Lockheed Martin Center for Innovation, Suffolk, VA, USA under the Joint Lockheed Martin-Indo-US Science and Technology Forum Academic Program.

Other Activities

❖ Van Mahotsav and Inaugural ceremony of the Herbal Garden (Opp. Guest House) at MNIT was celebrated on Wednesday, July 30, 2014. It was inaugurated by Ms Shikha Mehra, Chief Conservator of Forest, Rajasthan in the august presence of Prof. I.K. Bhat Director, MNIT Jaipur and Shri Sanjay Sood, IFS, Conservator of Forest, Himachal Pradesh. About 800 fruit and other plants



News Makers

❖ **Z I N E - - - w h e r e imagination leads to creation**
Zine is a creative group of engineering undergraduates of MNIT who are together to learn, improve and apply their technical skills to help foster the growth of society and India in the field of technology by utilizing their engineering skills to work on real time problems. It is comprised of students from



of different varieties were planted during the Van Mahotrasav in the campus.

❖ **Department of Mathematics**, MNIT, Jaipur bade farewell to Dr. Kantesh



Gupta on her superannuation on July 31, 2014. She had actively contributed to the Institute in terms of research, lectures and other departmental and Institutional responsibilities. She has been a favourite of her students because of her commitment and knowledge of the subject. We wish her good luck!

Placement and Training

- ❖ Latest Position of Placement till 15th August 2014
- Salient Features of Placement:
 - Bajaj Auto, Oracle, Expedia, Amazon, Future First, De-Shaw, Maruti, SPCL,C-DOT, Commvault, Cvent, Analytics Quotient etc. companies visited for Campus Placement till Date.
 - 60 Students of B.Tech from various Branches were placed.
 - Five B.Tech Students were offered Pre Placement (PPO) from Sales Force, Amazon and Wooqer companies.
 - First two top Rankers both from B.Tech. Electronics and Communication and B.Tech Computer Engineering were offered Direct Appointment by C.DOT.

- Indian School of Business and Teach for India (NGO) were given presentation.
- Highlights:
 - In forthcoming session of Placement, S A P Labs Bangalore, Info edge, KRONOS, Cairn, TCS(AIN), MU Sigma, Yodlee, Nagarro, Indian Navy, VDSI, Voyalla, Sapient Nitro, UNISYS,Google, Free Scale, Microsoft (For

Internship) etc. have been fixed for Campus Placement.

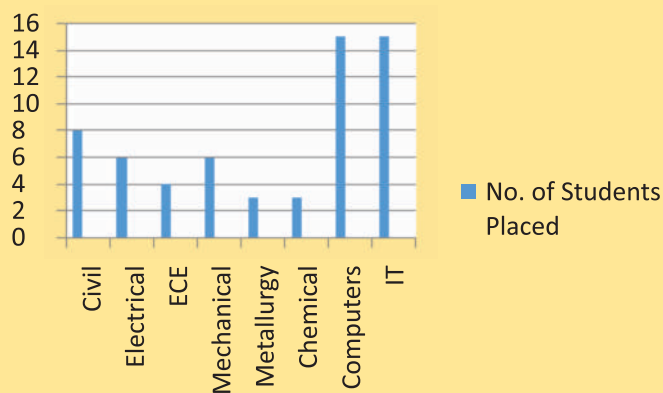
- Highest Package 21.00 LPA of AMAZON/DESHAW
- Average Package is 9.8 LPA.

Branch wise Placement Status:

S.No.	Branch	No. Of Students Placed
1.	B.Tech.Civil	08
2.	B.Tech.Electrical	06
3.	B.Tech.ECE	04
4.	B.Tech.Mechanical	06
5.	B.Tech.Metallurgy	03
6.	B.Tech.Chemical	03
7.	B.Tech.Computers	15
8.	B.Tech.I.T.	15
	Total	60

Branch Wise Placement :

No. of Companies till date (15th August 2014)



Package Wise Detail Upto 15th August 2014

Company	Package
1. Bajaj auto	7.7 LPA
2. Amazon	21 LPA
3. DE Shaw	19 LPA
4. Future First	8.9 LPA
5. Expedia	10 LPA
6. Oracle system	7.5 LPA
7. Oracle Finance	5.5 LPA
8. Oracle Primavera	7 LPA
9. Maruti	5.4 LPA
10. Commvault	14.5 LPA
11. Cvent	8.5 LPA
12. Shapoorji Pallonji	3.5 LPA
13. C-Dot	9.3 LPA
14. C-Dot (Branch Toppers)	9.3 LPA
15. Sales Force (PPO)	14.5 LPA
16. Amazon (PPO)	21 LPA
17. Analytics Quotient	5.5 LPA
18. Epic Systems (USA) (Process Completed Result awaited)	99698.12 (\$)



Happy
Navratri
&
Vijaya Dashmi

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