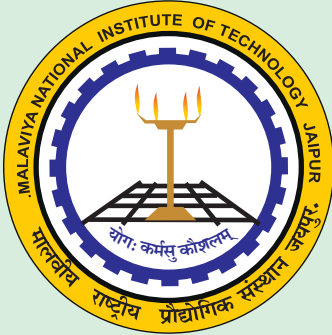


MNIT NEWSLETTER

Issue 3 June 2012



MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

MNITJ NEWS

Director's Message

Despite the intense summer heat, the Institute was abuzz with activity during the last three months. The Institute's Central Library, remodeled as a state-of-the-art Learning Resource Center, was inaugurated in April and a new laboratory of Structural Dynamics and Earthquake Engineering, the first of its kind in Rajasthan, was set up in the Institute. We also had the honour of hosting experts in such fields as nanotechnology and material sciences. There were seminars, short-term courses and training programs, organized by the faculty members of various departments. The Institute is also gearing up for the Golden Jubilee celebrations, due to start officially on September 1, 2012. It is indeed heartening to note the scale of participation being envisaged for the Golden Jubilee Year with scores of activities, both academic and non-academic, being meticulously planned to the last detail by the Golden Jubilee Celebrations team in coordination with the various departments and sections of the Institute. A number of student volunteers, too, are working round the clock to make this historic year an eventful and memorable one. It is hoped that support of all our well-wishers, including our distinguished alumni, will render this event a grand success.

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 one-day training program on 'Rajasthan Energy Conservation Building Directives' was organized by the Centre for Energy and Environment on **April 16, 2012** at the Design Centre for the engineers and architects of Jaipur Development Authority, sponsored by Rajasthan Renewable Energy Corporation Limited. The training program was organized under the project of conducting 10 such training programs for different stakeholder groups for the Energy Conservation Building Code in Rajasthan.

❖ The Department of

on Air Quality Management from **April 28-29, 2012** at MNIT Jaipur in collaboration with the Institution of Engineers, Rajasthan Center, Jaipur. The organizers of the seminar were **Prof. A. K. Rajvanshi, Dr. G.D.Agrawal,** and **Dr. G.S. Dangayach.** The Chief Guest of the inaugural function was **Prof. I.K. Bhat,** Director, MNIT Jaipur & the Guest of Honour was **Dr. G.L. Sehgal, Chairman, RSCIE(I).**

❖ A three-day Training Programme on "Water Supply Works " for the Engineers of the RUIDP (Govt. of Rajasthan) was organized from **May 11-13, 2012.** The



Prof. I.K. Bhat, Director MNIT Jaipur, lighting the lamp

Mechanical Engineering organized an all-India Seminar

Programme was coordinated by **Dr. Mahesh K. Jat & Dr.**

Urmila Brighu. The Programme was sponsored by RUIDP.

❖ A Faculty Development Programme on Entrepreneurship Development was inaugurated by **Prof. I.K. Bhat,** Director MNIT Jaipur, on **May 14, 2012** at Ajmer. This programme was organized by Entrepreneurship Development Cell, Malaviya National Institute of Technology



Inaugural Ceremony of Faculty Development Programme

Jaipur, in association with Govt. Women Engineering College Ajmer and Govt. Engineering College Ajmer. The programme was supported by National Science & Technology Entrepreneurship Development Board (NSTEDB), DST, Govt. of India and held from **May 14-25, 2012** at Govt. Women Engineering College, Ajmer and Govt. Engineering College, Ajmer. More than 20 faculty members from various engineering, science and management institutes participated in this programme. The programme aimed at infusing entrepreneurial traits in faculty members who are, in turn, expected to motivate and help students in adopting entrepreneurship as their career option.

❖ The Department of Electrical



Engineering organized a Short-Term Course on Smart Grid Technologies from May 14-18, 2012. The objective of the training program was to integrate and optimize distributed energy resources to achieve a more efficient and reliable grid, and to enable active participation of consumers with more environmental constraints. The Coordinators of the course were **Dr. Vikas Gupta** and **Dr. HP Tiwari**. The participants of this course were from various engineering colleges/ Institutes of the country. The resource persons for this course were faculty from NITs, BITS, RVVNL and Government funded institutes.

❖ A three-day Training Programme on "Soil & other material properties and base maps for Urban Infrastructure" for the Engineers of the RUIDP (Govt. of Rajasthan) during **June 22- 24, 2012**. The Programme was coordinated by **Dr. Mahesh K. Jat & Dr. Sandeep Chaudhary**. and was sponsored by RUIDP.

❖ The Department of Electronics and Communication Engineering organized a Short-Term Course on Recent Trends in Electronics and Communication Engineering from **June 25-29, 2012**. The course was attended by forty participants from various

technical universities/institutes of India. The Coordinators of the course were **Dr. Ghanshyam Singh** and **Dr. Rajesh Kumar**.

B.S. Murty Department of Metallurgical & Materials Engineering, IIT Madras and Prof. H.K. Khera (Retd. Prof. from MANIT Bhopal) visited

Distinguished Visitors/Expert Lectures in the Departments

❖ An Invited Talk was delivered in the Physics Deptt. by **Dr. Ramphal Sharma**, Head, Centre for Nanotechnology, Aurangabad University, on " Growth & Characterization of Nanomaterials" on **May 15, 2012**. A large number of faculty members and research scholars working in the field of materials from the Institute attended the event.

❖ **Prof. Jitender Kumar** of the Department of Metallurgical & Materials Engineering, IIT Kanpur, Prof.



Visit by distinguished experts at Dept. of Metallurgical & Materials Engineering

the Department of Metallurgical and Materials Engineering on **June 13, 2012**. The eminent professors visited various labs of the Department and gave suggestions to further improve the existing facilities. They appreciated the efforts made by and faculty of the Department regarding the renovation work in Mineral Dressing, Foundry and Workshop of the Department in particular. They also suggested to reorganize the system of practicals



conducted for students of B.Tech. They also gave emphasis on submitting more R & D proposals to various funding agencies. Overall, the interaction was very fruitful.

Awards / Recognition Received / Faculty's Achievements

❖ **Prof. S.P. Chaurasia**, Department of Chemical Engineering, chaired a technical session in the National Conference on "Energy and Environmental Issues related to Chemical Industries", organized by R.B.S College of Engineering, Agra and the Kanpur Regional Chapter of the Indian Institute of Chemical Engineers from **February 18-19, 2012**.

❖ **Prof. Dilip Sharma**, Mechanical Engineering Department, filed 4th patent on **June 14, 2012** titled "Pliers with Gripping Jaw Adjustment Cam" application number 1707/DEL/2012.

❖ **Dr. M.K. Shrimali**, Department of Civil Engineering, has been appointed reviewer for following International

Journals:

(1) International Journal of Structural Engineering, published from HongKong (China), InderScience Publication (ISSN (Online): 1758-7336 - ISSN (Print): 1758-7328)

(2) Journal of Vibration and Control, USA, SAGE Publication (ISSN: 10775463)

(3) Engineering Structure, USA, Publisher Elsevier Science (ISSN: 0141-0296)

❖ **Dr. Mahesh Jat**, Civil Engineering Department reviewed a UG level Source for NPTEL on "Principles of Surveying" as a first reviewer, for a MHRD funded project "National Programme on Technology Enhanced Learning" coordinated by IIT Kharagpur.

Visit/Expert Lectures Delivered by Institute Faculty

❖ **Prof. S. K. Sharma**, Department of Physics, was invited to participate in a discussion on 'New Frontiers: Shifting Trends in the Global Research Landscape and their Impact on Researchers' Career Patterns' held at the Oberoi Hotel, Gurgaon, New Delhi

from **March 29-31, 2012** under a Networking Conference for Research Alumni and sponsored by Federal Ministry of Education and Research, Federal Republic of Germany. The recommendations after the hectic discussions and the concluding panel discussion were sent to the Federal Ministry of Education and Research of German Government for consideration.

❖ **Prof. S.P. Chaurasia** gave an invited talk on the topic "Bioethanol from Lignocellulosic Feedstock" in the National Conference on "Emerging Trends in Renewable Energy Technology", organized by U.D.M.L College of Engineering, Jaipur from **April 20-21, 2012** and also chaired a technical session in this conference.

❖ **Prof. S. K. Sharma**, Department of Physics, delivered an invited lecture on "Advancing Technologies: Returns versus Losses for the Society" in a National Workshop on Science and Society held on **April 14, 2012** at Vivekananda Institute of Technology, Jaipur and jointly organized by VIT Jaipur and Society for

Scientific Values, New Delhi.

❖ **Prof. S.P. Chaurasia** gave an invited talk on the topic “Lipase Catalyzed Oil/Fat Processing for Sustainable Development” in the National Conference on Emerging Trends in Engineering, Technologies and Sciences for Sustainable Development (ETETSSD-2012), organized at Jawaharlal Nehru University Delhi, **June 5-6, 2012.**

Ashish Bhardwaj, a student of

Students' Achievements

the Department of Electrical Engineering, 2008-12, has been selected in the Indian army, IMA Dehradun. He stood first in the merit list of Electrical Engineering in the IMA selection examination.

❖ **Divita Duggar**, a student of 4th year B. Arch, stood third in the Design Competition held during the 4th National Workshop, held in IIT Kanpur, in which 58 undergraduate students who had completed six semesters of studies in their respective architecture program, from 17 institutes representing 16 cities



ITPI Committee on a visit at Architecture Department

from all over India. The participants were selected from around 120 applicants.



Students receiving awards

❖ **Prof. Alok Ranjan, Prof. Rajiv Shringi, Ms Kalpana Pandit and Ar. Tarush Chandra** participated in a national workshop on “Alternative Approaches to Master Planning” at New Delhi, jointly organized by the Ministry of Urban

Affairs and School of Planning and Architecture, New Delhi.

❖ A committee from the Institute of Town Planners India visited the Department of Architecture and Planning in the first week of May. The visit was organized in order to get the post-graduate course in Urban Planning run by the Department, approved by ITPI. The committee inspected the facilities and



Participants interacting at the workshop in SPA, New Delhi

student work. The work was greatly appreciated and the official process of approval is in the process.

Projects / Civil Works / Research Grant Received

❖ A new laboratory of Structural Dynamics and Earthquake Engineering (SDEE) has been set up in the Department of Civil Engineering. The SDEE lab was inaugurated by **Prof. T. K. Datta**, Distinguished



Inauguration of SDEE laboratory



Professor, Department of Civil Engineer, IIT Delhi and **Mr.**

C.S. Prasad, Director General, CPWD on **April 1, 2012**. This is a unique facility, the first of its kind in Rajasthan. The Lab has an electro-dynamics shaker of 600 kg(f) pay load capacity and maximum acceleration up to 75g, with microprocessor controlled data acquisition and control system; this machine will be used for research purposes. In addition, the Lab has two horizontal and one vertical electro- mechanical shaker, vibration absorber and various sized building models meant for imparting fundamental understanding of the concepts of structural dynamics.

❖ A Nationally Coordinated Research Project on "Assessment of Climate Change & Its Impact on Urban



Hydrology: Indian Perspective" in collaboration with IIT Roorkee and two other Institutes has been sanctioned by AICTE. Research grant of Rs. 40.0 has been sanctioned for three years, **Dr. Mahesh Kumar Jat** is the principal Investigator.

❖ The Malaviya National Institute of Technology inaugurated an advanced and well-equipped library under the name of 'LEARNING RESOURCE CENTER' on **April 13, 2012**. The Inaugural ceremony was graced by the



Director with guests at the Learning Resource Center



Distinguished Guests at the Book Exhibition

presence of **Dr. Anil Kakodkar**. A three-day mega Book Exhibition also kick-started with the inauguration of the Library. The Learning Resource Center has been designed keeping in view the needs of the students and faculty members. The center has eight air- conditioned reading areas, along with a couple of stack areas, where a wide variety of engineering and non-engineering books are available. The center provides a 24-hour reading facility for students and is under surveillance round the clock.

Guidelines for Industrial Consultancy and Sponsored Research Project were approved and made effective from **7th May, 2012**. These rules are primarily meant for facilitating the stake holders. The industrial assignments are to be undertaken only in the domain of specialization, and all types of industrial assignment shall be treated as Industrial Consultancy Projects. The office of Dean, Research and Consultancy (ODRC) shall assign a unique project identification code to every research/consultancy project, and the consultancy

reports shall bear a unique dispatch number and cover

note from ODRC.

राजभाषा निरीक्षण दल का संस्थान में दौरा

दिनांक 12 जून 2012 को मानव संसाधन विकास मन्त्रालय, नई दिल्ली के सहायक निदेशक (राजभाषा) श्री नवीन कुमार बोहरा एवं वरिष्ठ अनुवादक श्री निखिल अरोड़ा ने संस्थान का दौरा किया। इस द्विसदस्यीय निरीक्षण दल ने संस्थान में राजभाषा में किये जा रहे राजकीय कार्यों का ब्यौरा लिया एवं हिन्दी के प्रचार एवं प्रसार के लिए की जा रही विभिन्न गतिविधियों की जानकारी ली। इस दल ने राजभाषा में संस्थान द्वारा निष्पादित कार्यों पर एक प्रश्नावली भी भरवाई। निरीक्षण दल ने संस्थान के पुस्तकालय स्थापना शाखा, रसायन अभियांत्रिकी विभाग, एवं संस्थान परिसर का भी अवलोकन किया। निरीक्षण दल ने इस बात पर बल दिया कि दैनिक राजकीय कार्यों में हिन्दी का अधिकाधिक प्रयोग हो। निरीक्षण दल ने निदेशक महोदय, अधिष्ठाता संकाय, राजभाषा समन्वयक, कुलसचिव, उप कुलसचिव (प्रशासन) एवं सहायक कुलसचिव स्थापना और सभी राजभाषा सदस्यों से भी मुलाकात की और राजकीय कार्यों में हिन्दी के उपयोग को बढ़ाने के बारे में अपने अमूल्य दिशा निर्देश एवं सुझाव दिये।

Other Information

❖ In the 23rd BOG meeting, the New Rules and

Placement & Industry Institute Interaction

April - June 2012 • Total Students Placed = 21
Total Companies Visited = 9 (Core-3, Software/IT -6)

S. No.	Company	Package (L.P.A.)	Company Profile	No. of students placed
1.	Century Metal Recycling (CMR)	3.50	Core	1
2.	Samsung Engineering Labs	5.78	Software	2
3.	Shriram Pistons	3.66	Core	4
4.	Sopra Group	3.50	IT	1
5.	Triune Energy	3.00	Core	3
6.	Ittiam systems	6.75	Software	1
7.	Mediatek	6.50	Software/ IT	2
8.	Suzuki Power Train Ltd.	4.99	Software	5
9.	MAQ Software	7.00	Software/ IT	2
			Total Selection	21

Forthcoming Programmes

The Institute is going to celebrate its Golden Jubilee Year from **September 2012 to August, 2013.**



MNITJ NEWS



Editorial Team

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Dr. Kanupriya Sachdev,
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Dr. Madhu Agarwal, Member
Sri Anshu Saxena, Member

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