



Dear Reader,

Hope the vacation was quite refreshing and you are now rejuvenated for new endeavors. We will be delighted to share a flashback of the happenings in the past semester.

This paper will guide you to the memory lanes and will help you to relive the moments.

Warm regards,

ME Department

## Director's message

NIET is an institution, ever growing and expanding and has developed its mark in the professional world through the quality of education imparted by a team of qualified, dedicated and experienced faculty members. We at NIET are proud that within a span of fourteen years NIET has grown in all directions such as quality education, academic environment, infrastructure, placement activities, research activities and to bridge the gap between academia and industry. NIET has achieved excellence in many aspects due to the effective vision of the Institute management. We train and mould our students as per market requirements.



## From HOD's Desk

The mission of the ME Course is to foster the technical, critical thinking, and communication skills necessary for students to contribute to the engineering profession and to the well-being of society. The research activities complement our educational mission, address the ever-changing needs of industry and society, and contribute to the economic and social development of the nation. Backed by a number of well-developed laboratories such as Computer Aided Engineering Drawing Lab, the department also has well-established basic laboratories such as Basic Workshop Practice, Mechanical Testing lab, Foundry & Forging Lab with full-fledged facilities.



## VISION AND MISSION OF THE DEPARTMENT

### Vision:

The Mechanical Engineering Department envisions to be recognized globally for its outstanding technical education and research capabilities to address ever-changing global issues.

### Mission:

- To develop state-of-the-art research facilities to provide opportunities to interpret, apply, disseminate and create knowledge.
- To deliver outcome based research-led education to undergraduate and postgraduate students.
- To be dynamic, innovative and flexible in devising programs, structures and mechanisms to cope with the changes.
- To equip the students with academic, corporate and entrepreneurial leadership, communication skills and global awareness required by the engineering profession and society in general.
- To establish an environment that encourages and builds an exemplary degree of citizenship, professional and personal integrity and ethical behavior.

## PYRAMID FINISHING SCHOOL

Students of Department of Mechanical Engineering attended workshop in the month of March 2013 organized by PFS, NIET, Gr. Noida to tackle the inquisitive rounds of placement drives and interviewing panel. Personality development was a part of concern too during the session.

## SEMINARS

Mechanical Engineering Department organized seminar in accordance with DENSO India in the month of May 2013 for familiarizing the students with the industrial environment, focusing on production line and quality control.

In another event, Indian Army was invited for a motivational seminar for the students aspiring career in Indian defence forces.

## TECHNO-CULTURAL EVENTS

Students of Department of Mechanical Engineering, NIET, organized and participated in various techno-cultural events held at various institutes including NIET. Some of the highlights are:

- *Alankriti'13* organized at Army Institute of Management & Technology (June 2013)
- *Nadan Parinde'13* organized by UPTU Khabar (April 2013)
- *Faction'13* organized by NIET (February 2013)
- *Sankalp'13* organized by G.L. Bajaj (March 2013)
- *Blitzkreig'13* organized by GNIT Group of Institutions (March 2013)

## INDUSTRIAL VISIT

Department of Mechanical Engineering, NIET organized industrial visits to various manufacturing hubs for enhancing their knowledge base regarding industrial environment. Following industries were taken into consideration:

- Dev Priya Industries, Meerut (February 2013)
- Anand Allied Industries (January 2013)

## PLACEMENT DRIVES

From the past placement season from the month of March to June 2013 we have placements in various Organizations and Firms which gave wings to the dreams of the students and fly above the clouds to the seventh heaven.

- Trenchless Toolbox Pvt. Ltd.
- TCS
- Tega Industries
- ISMT Ltd.
- Marcuros Water Treatment Pvt. Ltd.
- Iyogi Technical Services
- Casio Computers Ltd., Japan
- Motherson Moulds & Die Casting Ltd.



## CONFERENCES & JOURNALS

Various research papers were published in national and international journals by students and faculties of Department of Mechanical Engineering, NIET, Gr. Noida. They also attended various prestigious conferences during the period of January to July 2013. Some of the titles are:

- Prateek Gupta, Sudhir Kumar, Ajay Kumar, “State of Art : Joining of Microwave Processed Materials”
- G. Bhati, Sudhir Kumar, Ajay Chaudhary, “Selection Of Best Coating Material Composition Used In Expanded Polystyrene Assisted Investment Casting Process By Using Fuzzy-AHP”
- Naveen Kumar, H. S. Pali, “Kusum Oil As A Potential Fuel For CI Engine”
- Neeraj Kumar Sharma, SN Pandit, Rahul Vaish, Vivek Srivastav, “Effective Young’s Modulus Of Ni-Al<sub>2</sub>O<sub>3</sub> Composite With Particulate And Interpenetrating Phase Structure: A Multiscale Analysis Using Object Oriented FEM”
- Vivek Singh, Snadeep Chauhan, HS Pali, “Stress Analysis Of Spur Gear Tooth Using Solidworks And Stress Reduction By Stress Relief Hole”
- Shailesh Singh, Shashi Prakash Dwivedi, HS Pali “Wear Characterization Of Al 6082/Sic Composite Produced By Mechanical Stir Casting Process”
- Samar Sultan, Dharendra Verma, Kapil Kumar, “Fabrication And Characterization Of Nano Sic Reinforced A17075 Matrix Composite”
- HS Pali, C. Mishra, A Vanaya, Siddhartha, N Kumar, “Sal Seed Oil: A Potential Feedback For Biodiesel Production”
- Shailesh Singh, SP Dwivedi, HS Pali, “Effect Of Heat Treatment On Mechanical Properties And Wear Behavior Of C385 Sic Metal Matrix Composite”
- Ashish Srivastava, Ajay Kumar, “An Optimization Technique To Solve The Inverse Kinematic Of Robot Manipulator”
- Dheeraj Singh, Gaurav Verma, Ashish Srivastava, “Innovative Design Of Multi-Jaw Wrench And Its Analysis”
- Vikas Kumar Singla, Sudhir Kumar, Rajesha S, Radha Raman Mishra, “Manufacturing And Drilling Analysis Of Foamed Carbon Fiber Composite”
- Girendra Bhati, Sudhir Kumar, Ajay Kumar, Daizy Rajput, “Optimisation Of Coating Materials Used On Expandable Polystyrene Pattern In Investment Casting Process”

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