

# The mechanical news

M E C H A N I C A L   D E P T . J E C R C , J A I P U R

## V I S S I O N   A N D   M I S S I O N   O F   C O L L E G E

INSIDE  
THIS  
ISSUE:

### VISION OF COLLEGE

▮ TO BECOME A RENOWNED CENTRE OF OUTCOME BASED LEARNING AND WORK TOWARDS, ACADEMIC, PROFESSIONAL AND SOCIAL ENRICHMENT OF THE LIVES OF INDIVIDUALS AND COMMUNITIES.

Mobility Expert  
Talk 2

### MISSION OF COLLEGE

▮ FOCUS ON EVALUATION OF LEARNING OUTCOMES & MOTIVATE STUDENTS TO INCULCATE RESEARCH APTITUDE BY PROJECT BASED LEARNING.

NKRC Season-4 2

▮ IDENTIFY, BASED ON INFORMED PERCEPTION OF INDIAN, REGIONAL & GLOBAL NEEDS, THE AREAS OF FOCUS & PROVIDE PLATFORM TO GAIN KNOWLEDGE & SOLUTIONS.

FDP@JECRC 3

▮ OFFER OPPORTUNITIES FOR INTERACTION BETWEEN ACADEMIA AND INDUSTRY.  
▮ DEVELOP HUMAN POTENTIAL TO ITS FULLEST EXTENT SO THAT INTELLECTUALLY CAPABLE & IMAGINATIVELY GIFTED LEADERS MAY EMERGE.

Faculty Achievements 3

## V I S S I O N   A N D   M I S S I O N   O F   M E C H A N I C A L D E P T T .

### VISION OF DEPARTMENT

▮ THE MECHANICAL ENGINEERING DEPARTMENT STRIVES TO BE RECOGNIZED GLOBALLY FOR EXCELLENT TECHNICAL KNOWLEDGE AND TO PRODUCE QUALITY HUMAN RESOURCE, WHO CAN MANAGE THE ADVANCE TECHNOLOGIES AND CONTRIBUTE TO SOCIETY THROUGH ENTREPRENEURSHIP AND LEADERSHIP.

QIP@IIT Roorkee 4

### MISSION OF DEPARTMENT

▮ TO IMPART HIGHEST QUALITY TECHNICAL KNOWLEDGE TO THE LEARNERS TO MAKE THEM GLOBALLY COMPETITIVE MECHANICAL ENGINEERS.

Industrial Visit @  
CIPET 5

▮ TO PROVIDE THE LEARNERS ETHICAL GUIDELINES ALONG WITH EXCELLENT ACADEMIC ENVIRONMENT FOR A LONG PRODUCTIVE CAREER.

▮ TO PROMOTE INDUSTRY-INSTITUTE LINKAGE.

Pre-Placement  
Mock Drill 5

**MOBILITY EXPERT TALK (JULY 8 2017)**

Dr. Manish Srivastava has participated one day seminar in “MOBILITY XPERT TALK” at IIT Delhi on 08<sup>th</sup> Jul 2017. Event was organised by ISIE India. Intellectuals and various speakers from different parts of the country participated in the event



←  
Dr. Manish Srivastava receiving the memento

“IF YOU ARE WORKING ON SOMETHING THAT YOU REALLY CARE ABOUT, YOU DON'T HAVE TO BE PUSHED. THE VISION PULLS YOU.”- STEVE JOBS

**NKRC VIRTUAL ROUND (JULY 8-9 2017)**

“The Moto rids” is a group of 23 machine lovers who want to explore their field of interest practically as well as theoretically. These students registered themselves in a national level go kart event named “NKRC Season-4” in which 250 team registered for the event from different states. They went through the virtual round of this event on 8<sup>th</sup>- 9<sup>th</sup> July at Vikrant group of institutions, Indore in



which students have to give presentation about what they are going to manufacture. It was a lifetime experience fighting for the 7 titles they have introduced in virtual round and because of the hard work and way of presenting students were awarded with the “Stig Award” and “Rs 10000” cash reward.

## FACULTY DEVELOPMENT PROGRAM

### (JULY 11-13 2017)

The faculty development program started with a brief Inaugural speech. The first session started with motivation of faculty members and to articulate about their expectations from the program.

The session helped to show the importance of understanding teaching as an art. It is a

showed the way to enhance the skills for drafting an impressive presentation. Time management is the most important aspect for anybody. Hence detailed deliberations were made for prioritizing and productive use of time

as a measure of work life balance. The session for the day ended with an interesting strate-

of aptitude topics in placements. The day ended with discussions about power writing with orientation on writing skills and focus on netiquettes plus effective email writing. The third day consist of an orientation on face now portal for CBT. The session continued to highlight



well-known thing that body language is a very important aspect of the personality of anybody. The expert tried to establish the importance of body language for the teachers as away to impression management in the work place. Presentation skill are very important aspects for professionals hence the expert

gic game of the day.

The second day started with basic orientation, strategies, do's and don'ts for GD, Resume writing and PI. Which will continue to introduce the basics of Quant's/Logic /verbal for understanding the basics of aptitude with discussion on importance

the roles of a mentor and mentees handling with orientation and guidelines to be a good mentor. The day and the Program ended with valediction speech and certificate distribution.

### FACULTY ACHIEVEMENTS

1. Dr. Bhuvnesh Bhardwaj attended Summer Internship Program entitled "Computational and Experimental Analysis in Industrial Applications in Mechanical Engineering" (May 22nd -July 5th, 2017) at MNIT, Jaipur (Raj.)
2. Dr. Bhuvnesh Bhardwaj got his Invention registered as Patent titled "APPARATUS AND METHOD FOR CLEANING INNER SURFACE OF HOLLOW OBJECT"

**QIP SHORT TERM COURSE**  
**ON**  
**“ ENHANCING YIELD IN METAL CASTING ”**  
**ATTENDED BY ER. AKHILESH PALIWAL**  
**AT IIT, ROORKEE (JULY 10-14 2017)**

A one Week QIP Sponsored Short Term Course on “Enhancing Yield in Metal Casting Industries” was organized by the Department of Mechanical and Industrial Engineering, Indian Institute of Technology, Roorkee during July 10-14, 2017. Twenty six Faculty members across the different states of India attended the course. It was focused on recent advancement and various defects in metal casting industry. We visited the different labs in department of mechanical and industrial engineering and prepared a job on investment casting.

Dr. D.B. Karunakar, IIT Roorkee, one of the coordinator of this course, talked about Overview of advanced casting processes and Selection and design of

moulding materials.

Dr. D.K. Dwivedi, IIT Roorkee, another coordinator of this course, discussed

through in-situ microwavcasting and present issue in industry.

Dr. A.M. Kuthe, Prof. & Head in CAD-CAM in NIT Nagpur, discussed about Design and analysis of castings with the help of computer assisted foundry and defect free design of casting.

Dr. Inderdeep Singh, IIT Roorkee, discussed about quality issue in processing of metal matrix

composites. Dr. Pradeep Kumar, IIT Roorkee, discussed recent advances / applications in casting technology. Dr. S.R. Meka, IIT Roorkee, discussed about identification and quantification of phases in microstructure by X- ray diffraction.



about Melt treatment for sound castings, Grain refinement and modification of Al castings, Factors leading to various defects in casting.

Dr. A.K. Sharma, IIT Roorkee, discussed about Factors leading to various defects in casting – Enhancing yield properties

**PAPERS PUBLISHED**

**DR. M. P. Singh, HoD**

1. Singh, M.P. and Pathak Priyanka, “ Sustainable manufacturing concept: A Literature Review!” International Journal of Engineering Technology and management research, Volume-4, Issue-6, July-2017, ISSN No.: 2454-1907.(IF:1745).( .[01-13]. (UGC Approved Journal)
2. Singh, M.P. and Saraf, Amit kumar “Effect of Dimple on Aerodynamic behavior of Airfoil” International Journal of Engineering and Technology, Volume-9, Issue-3, July-2017, ISSN No.: 2319-8613 .[2268-2277]. (UGC Approved Journal)
3. Singh, M.P. and Panigrahi, Harekrishna “Studies on properties of polypropylene filled SEBS/MICA/SILICA blends for automotive applications” International Journal of Research in Engineering and Technology, Volume-5, Issue-7, July-2017, ISSN No.: 2347-8613 .[27-30].

**GOOD, BETTER,  
BEST. NEVER  
LET IT REST.  
‘TIL YOUR GOOD  
IS BETTER AND  
YOUR BETTER  
IS BEST.  
ST. JEROME**

## INDUSTRIAL VISIT TO CIPET LTD. JULY 24 2017

41 students of 3<sup>rd</sup> semester section C with two faculty members (Mr. Vipin Goyal and Mr. Akhilesh Paliwal) went on an industrial visit on 24-07-17. CIPET Members in-charge of production received students at the entrance and gave a brief introduction of company and its product as well as safety tips.

It was an informative, interesting and a successful visit. As students of Mechanical Engineering, Students learned various process techniques and their products etc. Students expressed their thanks to the Principal and HOD who permitted them to go on the visit, the faculty members who accompanied students and the officials who explained the various departments.

CIPET Centre in the state of Rajasthan was established in the year 2006 under the XI<sup>th</sup> Five year plan of Govt. of India with the 50:50 contributions from the Government

of Rajasthan and Central Government. CIPET-Jaipur Centre is ISO 9001:2008 certified for Training and Technical Services and its Plastics Testing Centre is accredited by NABL for ISO 17025:2005 QMS & ISO 17020 and recognized by Bureau of Indian Standards (BIS).

CIPET-Jaipur is presently conducting short and Long Term Courses i.e Diploma in Plastics Testing & Quality Management (PGD-PTQM) also short duration operator training programmes in Plastics Processing / Injection Molding/ Extrusion/ CNC Milling /CNC Lathe etc. Also, CAD Department is conducting specialized training on various CAD software's AutoCAD/ Unigraphics /Creo /CATIA/Mold Flow etc. CIPET Centre at Jaipur is

offering Technical Services in various disciplines of Design, Tooling, Processing, Testing & Inspection to the local Plastics Industries and playing a major role in the development of Plastic Industries in & around Rajasthan.



## PRE-PLACEMENT MOCK DRILL JULY 20-5 AUG

**“THE FUTURE BELONGS TO THOSE WHO BELIEVE IN THE BEAUTY OF THEIR DREAMS”**

And to help them achieve their dreams, A Pre-placement mock drill was organized for the students of Mechanical final year to prepare them for the upcoming placements.



FACE which is placement prep organisation has come to JECRC during the period and the faculties from FACE guided our students and prepared them for different tests during the placement.



Different rounds were held for which faculties of the department were appointed to take the Technical, HR and Group discussions. Students were given grading accordingly and were told about the improvements needed.

