



RAJKIYA ENGINEERING COLLEGE, BANDA

(Approved by AICTE New Delhi, Affiliated to AKTU & Recognized By Govt. of Uttar Pradesh)

(Atarra – Banda Road , Banda , Uttar Pradesh – 210201)

DEPARTMENT OF MECHANICAL ENGINEERING

ISSUE 1

NEWS LETTER

2018

SUPPORT OF



Shri Ram Naik
Hon'ble Chancellor & H.E.
Governor of U.P.



Prof. Vinay Kumar Pathak
vice Chancellor APJAKTU



Prof. Sheo Prasad Shukla
Director of Rajkiya
Engineering College, Banda

EDITOR'S COLUMN

It gives an immense pleasure to release annual newsletter of Mechanical Engineering Department for the year 2018-19 . During last year, various curricular and co-curricular activities were conducted successfully by the department, through periodic seminars, webinars, workshops, Faculty development programs, industrial visits and industrial training as integral parts of the course, the students were equipped with technical knowledge, critical thinking skills and creativity to excel in the engineering profession. The mechanical engineering department is committed to create conducive atmosphere for the development of young brains into bright professionals of future. I believe that in the years to come, armed with commitment and perseverance of faculty and students, the department will continue to be the trend-setter in offering an array of curricular and co-curricular activities in order to achieve academic excellence.



Mr. Saurabh Tripathi

“Finally, I express my sincere thanks to the management, colleagues and my dear students for bringing out this Newsletter.”

Vision and Mission of the Department

VISION

- To be recognized as pioneer Department of Mechanical Engineering education in the state of Uttar Pradesh for Providing valuable resources for industry and society by 2030.

MISSION

- To make students aware with new and cutting edge technology.
- To develop skills in students by providing them knowledge to succeed in Mechanical Engineering profession and higher studies.

PROGRAM EDUCATIONAL OBJECTIVES (PEO'S)

1. Possess core knowledge of the discipline to succeed in their careers.
2. Be practicing engineers with breadth of knowledge to fit into contemporary work culture of multidiscipline and multitasking.
3. Be thorough professionals with competence to work in teams as leaders, effective communicators with ethical values, with sensitivity to the needs and concerns of society and environment.

PROGRAM SPECIFIC OUTCOMES (PSO'S)

1. Model and analyse components or processes related to thermal and mechanical systems.
2. Apply the principles of Mechanical Engineering to find the solutions for problems related to society and environment.

Industrial Visits :

INDUSTRIAL VISIT AT MPPPGCL DEOLAND BANSAGAR DAM, MP



Date: 17-04-18

ME 3rd year students have got opportunity to recognize the various process units of Ike Intake or Control Gates, The Penstock, Water Turbines Generators etc. They also got exposure about the risky conditions in which workers work, the people management challenges involved in managing workers apart from getting hands-on technical knowledge. Students got exposure about various safety measures followed in power plant. They have identified the gap between theoretical training and practical learning in a real-life environment. It helped students to identify organizational functions of hydro power plant. The visit enabled students to apply their classroom learning to a real-life situation while being mentored by industry experts.

Participation of Students :

TEQIP COURSE ON INTRODUCTION TO MANUFACTURING PROCESSES AT IIT KANPUR



Date: 11-06-18 to 22-06-18

Students who have participated are: Ms. Pratibha Singh, Mr. Veer Bahadur Patel, Ms. Ruchi Priyadarshi, Ms. Richa D Verma, Ms. Manisha, Mr. Aman Kumar Gautam, Ms Prity Kushwaha, Mr Himanshu Pandey, Mr Pradumn Kumar, Mr Ashutosh Kumar, Ms Pratibha Singh, Mr Saurav Yadav, Mr Satyavik, Mr Ashish Kumar Gaurav, Mr Prince Kasaudhan, Mr Pranjal Mani, Mr Rajan Kumar, Ms Neelam Suman, Mr Ramu Verma, Mr Shubham Yadav, Mr Himanshu Sharma, Mr Neeraj Kumar, Mr Kuldeep Yadav, Mr Ashish Kumar, Mr Avinash Kumar Verma

SUMMER TRAINING AT MENTOR INSTITUTE NIE MYSURE



Date: 20-06-18 to 20-07-18

ME 3rd year students who have participated are: Mr Tejveer Yadav, Mr Arpit Kumar, Mr Vivek Vishwkarma, Mr Ashish Vishwkarma, Mr Shivam Bharti, Mr Pramod Kumar, Mr Pravin Kumar, Mr Mayank Kannaujia, Mr Ravi Kumar, Mr Diwakar Gutam, Ms Manisha Kumari, Ms Shikha Dhawan, Ms Prayanka Bhilware, Ms Ankita Pandey, Ms Shakshi, Mr Vivek Parmar, Mr Vaibhav Gupta.

Expert Lecture :

ON MANUFACTURING SCIENCE

By Dr Pankaj Kumar Shrivastav
Associate professor and Head ME
Department AKS University Satna



Date: 01-09-18

In order to offer our students the insights of manufacturing and its applications, an expert lecture is conducted by the mechanical engineering department for 3rd-year students. In his lecture, speaker had talked about the basics of manufacturing science as well as about the recent advancement in the manufacturing technologies. He also discussed, what is additive manufacturing, how it is being done with the help of 3D printers and what are the advantages of additive manufacturing methods over

Conventional manufacturing methods. The lecture was a great success and was vvery much beneficial for the student.



THREE DAYS STUDENTS TRAINING PROGRAMME





Date: 18-09-18 to 20-09-18

Students training was given under twinning programme by faculties of mentor institute NIE Mysuru. Dr. Arvindrao M. Yadward gave expert lecture about Engineering Management & Entrepreneurship. Students got insight of Management & Entrepreneurship skills through his lecture. Mr. Anand A gave lecture on machine design topics with its application in ANSYS software. So with hands on training students learn how

to do stress analysis with ANSYS software. Mr. Prithi C gave lecture about Heat Transfer topics and hands on training on ANSYS software is given to solve heat transfer problems. In overall sense the training programme focussed on Me-3rd year students.



Industrial visit :

**AT WAGON REPAIR WORKSHOP
JHANSI**





Date: 23-10-18

ME 3rd year students got exposure about various types of coaches and carriages. Students have got opportunity to recognize the various shops like Machine shop, Wheel shop, Wagon shop, Carpentry shop, Furnace shop, Welding shop etc.

. They also got exposure about the risky conditions in which workers work, the people management challenges involved in managing workers apart from getting hands-on technical knowledge. Students got exposure about various safety measures followed in repair workshop. They have identified the gap between theoretical training and practical learning in a real-life environment. It helped students to identify organizational functions of wagon repair workshop. The visit enabled students to apply their classroom learning to a real-life situation while being mentored by industry experts.



Faculty Department Program :

ADVANCE MATERIAL , MODELLING AND MANUFACTURING



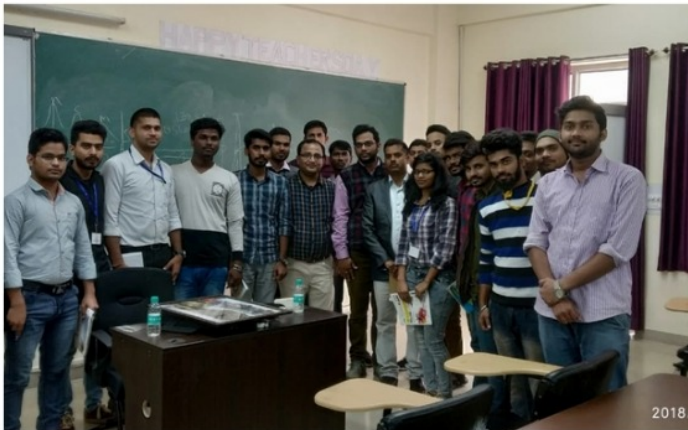
Date: 27-11-18 to 01-12-18

Dr. Siddharth Joshi Associate Professor NIE Mysuru, Dr. Anjanaye Pandey Associate Professor MGCGV Chitrakut, Dr. Sanjay Shukla, RDSO Lucknow, Dr. Rajeev Gupta, Wind Tunnel Facility, IIT Kanpur, Dr. Naresh Sisodia Associate Professor, MNNIT

Allahabad, Dr. Avadesh Sharma Associate Professor REC Mainpuri, Dr. Mukul Shukla Professor, MNNIT Allahabad, Dr. Arun Kumar Pandey Associate Professor, BIET Jhansi Faculty development programme on Advance Materials Modelling and Manufacturing helped to create awareness about the current research in Manufacturing and Materials.

It highlighted the importance of material characterization, modelling and unconventional manufacturing techniques. Participants familiarized with the latest manufacturing and characterization equipments. Dr. Siddharth Joshi have given exposure about Nanotechnology and Nanomaterials. Dr. Naresh Sisodia have given insights of material characterisation and microscopy. Dr. Avadesh Sharma and Dr. Sanjay Shukla have given lecture on modelling and simulation. Dr. Mukul Shukla have shared deep insights of Additive Manufacturing.

Dr. Arun Kumar Pandey given lecture on Advance material and manufacturing



EDITOR NAME :

Faculty members :

- Mr. Saurabh Tripathi
- Mr. Deep Singh Thakur
- Mr. Ankush Kumar Rajput

Students :

- Mr. Saurabh Kumar
- Ms. Ridhi Pandey