

DEPARTMENT OF MECHANICAL ENGINEERING



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Year-03

Volume: 02

February -2014

Our Vision

To be recognized internationally for quality education and research in mechanical engineering with excellence in the fields of design, manufacturing and thermal sciences.

Our Mission

To prepare professionally competent and broadly educated mechanical engineers by developing analytical and research abilities, encouraging culture of continuous learning and by adopting new technologies to solve complex problems.

Programme Educational Objectives of Department (PEOs)

The educational objectives of the Mechanical Engineering programme are designed to produce competent engineers who are ready to contribute effectively to the advancement of Mechanical

Engineering causes and to accommodate the needs of the profession. The Mechanical Engineering Department is dedicated to graduating mechanical engineers who:

1. Shall practice Mechanical Engineering in the general disciplines of design, thermal and manufacturing engineering in industry and establishments in government and private sectors.
2. Shall apply fundamental technical knowledge and skills to find workable solutions to technological challenges and problems in various areas of Mechanical Engineering.
3. Shall pursue advanced education, research and development, and other creative efforts in science and technology.

4. Shall conduct themselves in a responsible, professional and ethical manner for the benefit of the industry and society.

Programme Outcomes (POs)

The programme is targeted at developing the following competencies, skills and abilities amongst students. They shall be able to:

1. Acquire knowledge in the discipline of mechanical engineering, apply fundamentals of mathematics, engineering and sciences and apply technologies to solve complex problems in inter and cross disciplinary areas.
2. Search out relevant technical information, use analytical tools to formulate problems and identify workable solutions.
3. Design mechanical systems, components, or processes to meet their performance needs from considerations of public health and safety as well as cultural, societal, and environmental issues.
4. Engage in R & D pursuits, set up and conduct experiments, analyze and interpret data using tools, techniques and instrumentation in mechanical engineering and interdisciplinary area.
5. Identify, formulate and solve mechanical engineering problems using modern design and manufacturing approaches and computational and software tools.
6. Understand the responsibilities associated with the use of technology & processes on societal & legal issues of concern in respect of health, safety and culture.
7. Understand contemporary issues in sustainable development and in providing technology solutions considering impact of economic, social, political, environmental and global issues.

8. Understand ethical and professional issues and responsibilities in engineering practice, creative enterprise, loyalty and commitment.
9. Communicate effectively in written, oral and graphical forms, provide instructions and present the results in a professional manner.
10. Possess knowledge of management principles, project management and finance, engineering materials, processes and systems working to function effectively, as a member or team leader, in executing mechanical engineering projects under diverse and multidisciplinary environments.
11. Develop ability to engage in lifelong learning, adapt new developments and participate in continuing education opportunities to remain active in the profession and foster personal and organizational growth.

Mechanical Engineering Department of GHRCE organized 9th Board of Studies Meet on 13th February, 2014.



To revise and finalize the new scheme for post graduate studies and to discuss the content of the revised syllabi, BOS Meet (9th BOS Meet) was organized by the Department of Mechanical Engineering, GHRCE on 13th February, 2014. Dr.P.V.Walke HOD and chairman of BOS welcomed the guest to the august house and handed over the session to Dr. V.M.Kriplani. Outside expert and academician Dr.D.V.Bhope Chairman, BOS, Mechanical Engineering, RTMNU, Nagpur, Industry expert Mr.Vivek Vaidya Sr. Manager JSW-Ispat, Mr. Shrekhar Jogwar Manager (Manufacturing) PIX Transmission Ltd. were actively involved in this meet. All internal experts were also present in this meet.

Dr.P.V.Walke HOD and chairman of BOS proposed formal vote of thanks at the end of the programme.

Industrial Visit to “M.M. Boring Works, Gandhi Sagar, Nagpur” organized by Mech. Engg. Dept., GHRCE, Nagpur



The Department of Mechanical Engineering of G. H. Raisoni College of Engineering Nagpur has organized Industrial Visit at M.M. Boring Works, Gandhi Sagar, Nagpur for semester VIII-A & VIII-B on 08/02/2014.

Mr. Sharma, Plant Head helped us for organizing this industrial visit & has given brief information about the company. M.M. Boring Works, is a part of industries. Basically M.M. Boring Works, automobile reconditioning industry in which reconditioning of cylinder block, cylinder head, crankshaft, camshaft, connecting rod, inlet and exhaust valve seat is done.

The student of semester VIII-A & VIII-B along with Prof. K. S. Rambhad, Prof. A. P. More and Prof. A. S. Chaudhary visited the company at 11.00 AM. Mr. Sharma has introduced the company at the start and given the brief information about the various operations carried out at company. Then the students entered into shop floor with Mr. Patil. There were 5 Lathe, 5 Crankshaft grinding, 4 Vertical boring, 2 honning machine, 2 main line boring machine, etc.

After visiting shop-floor the students discussed the various topics for their project

with Mr. Vaidya who is one of the supervisor of company and the faculty members. Mr. Vaidya has suggested the various areas like Machining, Material handling, fixture design and Quality control to students in which they can do the project.

Dagoba Engineering Works, Shashtri Nagar, Nagpur



The department of Mechanical Engineering of G.H.Raisoni College of Engineering Nagpur has organized Industrial Visit to “**Dagoba Engineering Works, Shashtri Nagar, Nagpur**”, for students of sixth semester B.E. Mechanical sec.-A, on 25th Jan, 2014. Mr. Vishwas Mahadure, officials of production department of **Dagoba Engineering Works, Shashtri Nagar** given brief information about the overall functioning of various departments including Cutting, press fitting, balancing of Flywheel, machining department, welding and Manufacturing process of Threshers and Pulverizers & Safety practices performed in plant. The company’s main products are Multicrop Thresher, Agro Pulverizer, paddy Thresher, Kandap Machine etc. Overall 68 students along with three faculty members Prof.S. S. Kumbhalkar, Prof. N. P. Awate and Prof. L. P. Raut, visited the industry for studying the practical application of the subject. The credit for the success of industry visit goes to Dr.P.R.Bajaj, Director, Dr.P.V.Walke

(HoD Mechanical Engg.), Prof. Prof. S. S. Kumbhalkar (VI sem. Sec.A, Class Incharge, Mech.) and all faculties and students participants

“G. G. & Company Near Gandhi Sagar Lake, Gandhibagh Nagpur”



The department of Mechanical Engineering of G.H.Raisoni College of Engineering Nagpur has organized Industrial Visit to **G. G. & Company Near Gandhi Sagar Lake, Gandhibagh Nagpur** for students of Fourth semester section-C, on 21th Dec, 2013 Mr B. G. Chandak, Officials of “**G. G. & Company**” given brief information about the overall functioning of various departments and machines such as lathe, crank shaft grinding, boring, drilling and crank metalizing etc. Reconditioning & maintenance shop & safety practices performed in company. Total 67 students from IV-C semester Mechanical Engineering along with two faculty members Prof. V. P. Kalbande (Class Incharge IV-C semester), and Prof. K. S. Rambhad visited the industry. The credit for the success of industry visit goes to Dr.P.R.Bajaj, Director, Mr.K.D.Joshi (IIP cell coordinator), Dr.P.V.Walke (HoD Mechanical Engg.), Prof. V. S. Khangar (T & P coordinator, Mech.) and all faculties and students participants.

Company manufacture and repair the automobile parts.

