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Vision and Mission of the Mechanical Engineering Department

Our Vision

To be recognized internationally for quality education and research in Mechanical Engineering with excellence in 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)

1. Acquire knowledge in the discipline of Mechanical Engineering, apply fundamentals of mathematics, engineering and sciences and apply technologies to solve real 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 the data using tools, techniques and instrumentation in mechanical engineering and interdisciplinary area.
5. Identify, formulate and solve mechanical engineering using modern design and manufacturing approaches and the computational and software tools.
6. Understand the responsibilities associated with the use of engineering and technology practices on societal issues of concern in respects of health, safety, legal 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, the 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, materials, processes and systems-working to function effectively as a member of team in products manufacturing and projects execution in 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 Project Secure 2nd
Prize in State Level Competition
AVISHKAR -14



Project titled “Design and Development Garlic Peeling Machine” got first Prize in University level AVISHKAR-2014 at Nagpur & Second Prize in the category of Agricultural and Animal Husbandry State Level Inter University Innovative project Competition at MAFSU, Nagpur which was held on 21st & 23rd January 2015. This Project developed by final year student Mr Ashish R. Bais, Mr. Pratik D. Khadode Mr. Akash N .Saraf, Mr. Ankit S. Gawande under the guidance of Prof. Nilesh Awate.

Department of Mechanical
Engineering organized Two Day
Workshop on Vehicle Dynamics
and Vehicular Design



Mechanical Engineering Department conducted two day workshop on Vehicular Dynamics and Vehicle Design on 3rd and 4th January 2015 at GHRCE Nagpur. This program is jointly sponsor by SAE INDIA western Section Pune.

Workshop was inaugurated by Mr. N. P. Wagh, Secretary SAE INDIA Western Section, and Mr. R. S. Kolhe , Director N. B. Technology Pune, conducted the workshop with live problem related to various automobiles.

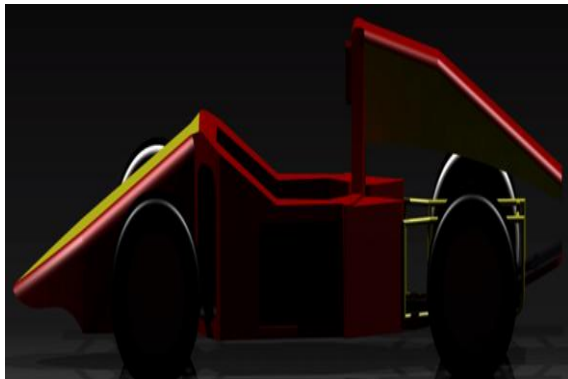
Meeting of Class Representatives
conducted on 22nd January 2015 in
Mechanical Engineering

Department



The meeting of class representatives was conducted in the department on 22nd January 2015 in W-33. Class Representatives of various sections. Mr. Abhishek Raj, Mr. Hitsh Basene, Mr. Shivam Shashwat, Ms. Riya Meghnani, Mr. Piyush Ghotekar, Mr. Anand Patil, Mr. Prateek Kothari, Mr. Karandeep Gill, Mr. Manmeet Multani, Mr. Arjunayan Purkayastha, Mr. Sachin Bharti, Mr. Abhilash Pandey and Dr. P. V. Walke, Head of Department were present for meeting.

**Department of Mechanical
Engineering students Participated
in Formula one Racing Car
Competition SAE India SUPRA-
2015**



Students of Mechanical Engineering Department, GHRCE Nagpur, participated in prestigious India's Biggest National Level Formula one racing car competition

VIRTUAL SUPRA -2015 at VEL TECH Rangarajan Dr. Sanguthala R & D Institute of Science and Technology Chennai, organized by SAE INDIA on 8th to 10th January 2015.

**Department of Mechanical
Engineering students participated
in National Kart Racing
Competition (NKRC)-2015**



Students of Mechanical Engineering Department, GHRCE Nagpur, participated in National Go Kart Racing Competition (NKRC-2015) at National Racing Circuit Bhopal, on 23rd to 25th January 2015; The Competition was organized by Virtual Motor sport Corporation.

**Mechanical Engineering
Department organized
Industry Visit to MM Boring
Works**



Department of Mechanical Engineering, G.H. Raison college of Engineering, Nagpur has organized Industrial visit on 17th January 2015 to MM Boring works, Near Gandhi Sagar Lake, Gandhibagh, Nagpur for 4th Semester Section A & C students. Mr. Sushil Sharma, Officials of MM Boring Works given brief information about the overall functioning of various departments in MM boring works.

Department of Mechanical Engineering organized invited talk on Manufacturing Process



Department of Mechanical Engineering has organized invited talk on Manufacturing Process by Dr. Dilip Ganguly, Ex-Additional General Manager, Indian Ordnance Factories Service (IOFS), Nagpur on 30/01/2015 for 4th semester section B students. Dr. Dilip Ganguly during his talk covered the important aspects of Manufacturing Processes.

Department of Mechanical Engineering organized invited talk on Industrial Engineering



Department of Mechanical Engineering has organized invited talk on Industrial Engineering by Mr. D. P. Mukherjee, Ex-Junior Works Manager, Ordnance Factory Ambazari, Nagpur on 30/01/2015 under ASME Student Chapter for 6th semester section A & B students. Mr. D. P. Mukherjee during his talk covered the important aspects of production design & processes and its significance in industries.

Poems written by a student

You may write me down in history
 With your bitter, twisted lies,
You may tread me in the very dirt
 But still, like dust, I'll rise.
Does my sassiness upset you?
Why are you beset with gloom?
'Cause I walk like I've got oil wells
 pumping in my living room.
Just like moons and like suns,
 With the certainty of tides,
Just like hopes springing high,
 Still I'll rise.

.....Pratik Kothari

6th Semester Section B