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Volume: 12

December-2014

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:

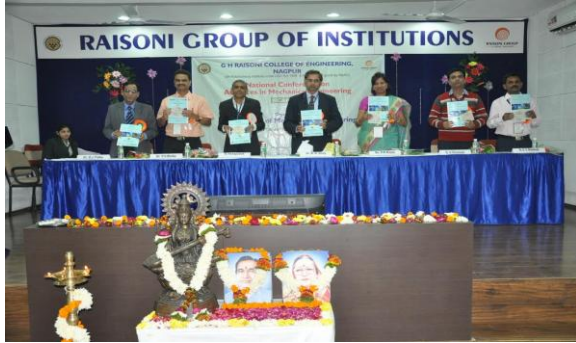
1. Shall practice Mechanical Engineering in the general disciplines of design, thermal and manufacturing engineering in industry and establishments in government and private sectors.
2. Shall apply fundamental technical knowledge and skills to find workable solutions to technological challenges and problems 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.

**Department of Mechanical
Engineering
Organized National Conference on
Advances in Mechanical
Engineering**



Department of Mechanical Engineering, G.H. Raisoni college of Engineering, Nagpur has organized 3rd National Conference on “Advances in Mechanical Engineering” (NCAME -14) on 17th and 18th December 2014. The conference was organized under RGI-TRPCS-2014 under TEQIP-II in association with GHR Labs and Research centre, The institute of Indian Foundrymen and Spacewood Ltd. Nagpur.

The conference received 76 research papers. 68 papers were selected for presentation after peer review by concern reviewer. The conference was well decorated with 05 Technical sessions, and key note session by Dr. M. D. Atrey. Professor IIT Bombay.

**Department of Mechanical
Engineering organized one day tour
to Bor Wildlife Sanctuary**



Department of Mechanical Engineering has organized one day tour for faculty at Bor wildlife sanctuary on 27/12/2014. Near Hingi in Wardha District, The sanctuary covers an area of 121.1 km² (46.8 sq mi) which includes the drainage basin of the Bor Dam.

Two Day Workshop at IIT Bombay



Two days residential workshop was attended by PG students & Ph.D. scholars of Mechanical Engineering Department on 22nd & 23rd December, 2014. This TEQIP

Workshop was sponsored by the DTE, Mumbai and State Project Facilitation Unit (SPFU) held at Indian Institute of Technology, Bombay; this workshop used a format of presentations from leading experts on important topics followed by group discussions to explore in greater depth the issues and needs for the next generation of high-technology inverters for thermal, manufacturing and other design applications by research.

From Mechanical Engineering Department, GHRCE, Nagpur, Mr. N. P. Awate, Mr. K. S. Rambahd, Mr. V. P. Kalbande, Mr. V. W. Khond (Ph. D. Scholars) Mr. Bablu Yadav. Mr. Pranay Phadke, Mr. Pritam Kudale, Mr. Ganesh Shinde (M.Tech. Students) were attended the workshop.

Celebration of Christmas at Deaf and Dumb School, Shankar Nagar, Nagpur organized under CSR activity



First semester, M.Tech HPE student of Mechanical Engineering Department celebrated Christmas in Deaf & Dumb School, Shankar Nagar, Nagpur under CSR activity on 25/12/2014. Various gifts, note books, pen, etc. are distributed by students. And also for spreading awareness amongst the students about computers, solar systems, & other science related topics they played various games with students of Deaf & Dumb School. The Head Master of the school appreciated the efforts taken by CSR group members.

Poems written by a student

I love the imperfection,
That lies in me.
It enables me to see,
A bud that flowers free.
A dew drop slides,
And open a bud.
A beautiful bud,
That blossoms in mud.
Petal by petal it opens its soul,
Heavenly ecstasy, its ultimate goal.
Petal by petal then it dies,
To meet the perfection that in him
lies....

.....by Rupesh Rewetkar

6th Semester Section B