

Program Outcomes (PO) Engineering Graduates will be able to:

- PO1 Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- PO2 Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- PO3 Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- PO4 Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- PO5 Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
- PO6 The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- PO7 Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- PO8 Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- PO9 Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO10 Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- PO11 Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- PO12 Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Department of Mechanical Engineering

Vision

To create competent technical professionals in Mechanical Engineering with ethical behaviour and environment consciousness.

Mission

1. To provide contemporary and cutting-edge technical education in Mechanical Engineering.
2. To provide an ambience which nurtures research ideas in futuristic domains of Mechanical Engineering.
3. To initiate project based learning and practical exposures in the area of Mechanical Engineering.
4. To direct faculties in research and consultancy / advisory roles.
5. To establish strong linkages with well-known national and international technical institutes.
6. To promote the culture of imbibing environmental care and eco-friendly designs.
7. To become a department of aspiration & choice.

Program Educational Objectives (PEOs)

PEO1: To prepare the stakeholder to exhibit leadership qualities with demonstrable attributes in lifelong learning to contribute to the societal needs.

PEO2: To make ready the stakeholder to pursue higher education for professional development.

PEO3: To help the stakeholder to acquire the analytical and technical skills, knowledge, analytical ability attitude and behavior through the program.

PEO4: To prepare the stakeholders with a sound foundation in the mathematical, scientific and engineering fundamentals.

PEO5: To motivate the learner in the art of self-learning and to use modern tools for solving real life problems and also inculcate a professional and ethical attitude and good leadership qualities.

PEO6: To prepare the stake holder to able to Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

Program Specific Outcomes (PSOs)

PSO1: Successful Career and Entrepreneurship: Graduates will be able to understand the social-awareness and environmental wisdom along with ethical responsibility to have a successful career and to sustain passion and zeal for real-world applications using optimal resources as an entrepreneur.

PSO2: Hobbies and Career: Graduates have nurtured their hobbies which are useful in their specific chosen career.

MANJARA CHARITABLE TRUST
RAJIV GANDHI INSTITUTE OF TECHNOLOGY, MUMBAI
(Permanently Affiliated to University of Mumbai)
DEPARTMENT OF MECHANICAL ENGINEERING

Council of Vibration Specialist (CVS) RGIT Students Chapter

Annual Report: 2023-24

Established on 16/10/2023

Faculty Coordinator: Dr. Yogesh P. Deshmukh

Office Bearers:

- Mr. Ashish Jogadiya, President, CVS-RGIT Students Chapter
- Ms. Arya Pawar, Vice President, CVS-RGIT Students Chapter
- Mr. Atul Chikane, Secretary, CVS-RGIT Students Chapter
- Mr. Ayush Palande, Secretary, CVS-RGIT Students Chapter
- Members: Mr. Anvit Devadiga, Mr. Ayush Palkar, Mr. Advait Fatnaik, Mr. Hitesh Rathod, Mr. Rahul Sirsat, Mr. Soham Sailkar, Mr. Charan Chandrashekar, Mr. Parth Mahajan, Mr. Vitesh Misal, Ms. Sharavani Parab, Ms. Shrushti Chavan, Mr. Rahul Kurane, Mr. Mannan Gada, Mr. Dhwanit Jangle, Mr. Sanidh Dalvi, Mr. Yash Rupvate, Mr. Raj More, Mr. Mirza Saif, Mr. Mehul Parmar, Mr. Mayur Gawade, Mr. Shubham Wagmare.

Activities:

1. Inauguration of CVS
 - Event date:16/10/2023
 - Dignitaries:
 - Chief Guest: Dr. Harvinder Singh Gambhir, President CVS
 - Guest of Honour:
 - Dr. Sanjay U. Bokade, Hon. Principal, MCT's RGIT
 - Dr. Tarapada Pyne, Secretary, CVS
 - Dr. Nilaj Deshmukh, Chairman, CVS Mumbai Chapter
 - Mr. Niranjana Bhise, Secretary, CVS Mumbai Chapter
2. Guest lecture on, "Awareness Program on Predictive Maintenance Technologies"
 - Speaker:
 - Mr. Sanjiv Kamble, Head of Plant Health Services Department at Rashtriya Chemicals & Fertilizers Ltd. Chembur.
 - Mr. Mani Pavan Yadav, CVS member.
 - Event date: 11/03/2024
 - Participants: Students of Third Year
 - No. of Beneficiary Participants: 75
3. Internship at Center for Reliability and Diagnostics, Kharghar, Navi Mumbai
 - Beneficiary Student Names: Mr. Ashish Jogadiya & Mr. Atul Chikane
 - Duration: 18/12/23 to 7/1/24
 - Internship Supervisor: Dr. Tarapada Pyne, Secretary CVS. Er. Dipayan Pyne, Senior Engineer, CRD.