



# RVS COLLEGE OF ENGINEERING AND TECHNOLOGY

COIMBATORE – 641 402

DEPARTMENT OF MECHANICAL ENGINEERING

REGULATION – 2017



## PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

### The Graduates of Mechanical Engineering Programme will

PEO1	Ability to self-learn modern engineering tools, techniques, skills and contemporary engineering practices, necessary for mechanical engineering work.
PEO2	To prepare students for successful careers in industry that meet the needs of local, national and multinational companies.
PEO3	Develop awareness of the ethical, professional and environmental implications of work in a societal context.

## PROGRAM SPECIFIC OUTCOME (PSOs)

PSO1	Apply modern problem-solving tools in two, three-dimensional drafting and analysis viz. CREO, Autodesk Inventor and ANSYS for product design and development.
PSO2	Analyses real time complex Mechanical engineering problems in the area of Thermal, Design and Manufacturing Engineering.
PSO3	Practice moral and ethical values in engineering career to adapt techno-environmental changes.

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## PROGRAM OUTCOMES (POs)

**After the successful completion of B.E. Program in Mechanical Engineering, the students will be able to**

PO1	<b>Engineering Knowledge:</b> Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	<b>Problem Analysis:</b> Identify, formulate, review literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering services.
PO3	<b>Design / Development of Solutions:</b> 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	<b>Conduct Investigations of Complex Problems:</b> 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	<b>Modern Tool Usage:</b> Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
PO6	<b>The Engineer and Society:</b> reasoning informed by the contextual knowledge to assess societal, health, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO7	<b>Environment and Sustainability:</b> Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development
PO8	<b>Ethics:</b> Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9	<b>Individual And Team Work:</b> Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10	<b>Communication:</b> Communicate effectively in 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	<b>Project Management and Finance:</b> 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	<b>Life-Long Learning:</b> 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.



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