



Bharati Vidyapeeth
(Deemed to be University)

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Offered Programmes

B.Tech. (Mechanical Engineering)

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Programme Overview

The Department of Mechanical Engineering offers a four-year B.Tech programme in Mechanical Engineering. The industry-based curriculum of this programme imparts sound knowledge and understanding of mechanical engineering principles and advancements in this domain to prepare students to solve complex real-time problems.

Program Educational Outcome:

Graduates will be able:

- ✓ To fulfill need of industry and society with theoretical and practical knowledge.
- ✓ To engage in research, innovation, lifelong learning and continued professional development.
- ✓ To fulfill professional ethics and social responsibilities.

Programme Educational Objectives (PEO) -B. Tech. Mechanical.

Key Information

Duration

4 Years

Eligibility

- ☐ The candidate should be Indian National.
- ☐ Passed 10+2 examinations with Physics and Mathematics as compulsory subjects along with one of the Chemistry / Biotechnology / Biology / Technical vocational subject. Obtained at least 50% (45% in case of candidate belongs



Graduates will be able

- ✓ **PEO 1** - To fulfill need of industry and society with theoretical and practical knowledge.
- ✓ **PEO 2** - To engage in research, innovation, lifelong learning and continued professional development.
- ✓ **PEO 3** - To fulfill professional ethics and social responsibilities.

Statements of Programme Specific Outcomes (PSOs)

- ✓ **PSO 1** - Apply the knowledge of thermal, design, manufacturing engineering and computational sciences to solve Mechanical Engineering problems.
- ✓ **PSO 2** - Apply Mechanical Engineering principles for research, innovation and develop entrepreneurial skills.
- ✓ **PSO 3** - Apply concepts of mechanical engineering to asses' societal, environmental, health and safety issues with professional ethics.:

Programme Outcomes

- ✓ Apply the knowledge of thermal, design, manufacturing engineering and computational sciences to solve Mechanical Engineering problems.
- ✓ Apply Mechanical Engineering principles for research, innovation and develop entrepreneurial skills.
- ✓ Apply concepts of mechanical engineering to asses' societal, environmental, health and safety issues with professional ethics.

Engineering Graduates will be able to:

- ✓ **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an

to reserved category (SC/ST) above subjects taken together. OR

- Passed diploma in Engineering and Technology and obtained at least 50% marks (at least 45% marks, in case of backward class categories and persons with Disability candidates belonging to Maharashtra state only)

engineering specialization to the solution of complex engineering problems.

- ✓ **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.
- ✓ **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.
- ✓ **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.
- ✓ **Modern tool usage:** 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.
- ✓ **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.
- ✓ **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.
- ✓ **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- ✓ **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- ✓ **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.

- ✔ **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.
- ✔ **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.

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ADMISSION ENQUIRY



Career Prospect

There is a great demand for mechanical engineers in diverse job sectors ranging from aviation to manufacturing. Students with a B.Tech Mechanical Engineering degree can opt for the following job profiles.

- Mechanical Engineer
- Automotive Engineer
- Aerospace Engineer
- Manufacturing Engineer
- Production Engineer
- Quality Engineer
- Technology Specialist
- Structural Engineer
- Petroleum Engineer
- Thermal Engineer

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My four years at BVDUCOEP'S Department were great and a memory to cherish for life and grooming oneself. It gave me an opportunity of people and learned many things. I am thankful to my mentors and entire SET as well as placement experience and lifetime memory

Tara Singh

