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Bharati Vidyapeeth
(Deemed to be University)

About **Programmes** **Colleges** **Campuses** **Academics** **Research** **Alumni** Admissions 2023

Offered Programmes

B.Tech. (Robotics and Automation)

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Programme Overview

The B.Tech programme in Robotics and Automation imparts strong fundamental knowledge in this area of study and provides hands-on experience of robotics and automation practice. This four-year undergraduate programme has an industry-driven curriculum that is updated periodically in consultation with experienced academicians and experts from the industry. It equips students with the necessary skill sets to help them achieve their professional goals in robotics and automation.

Program Educational Outcome:

- To fulfill need of industry and society with theoretical & practical knowledge
- To perform research, innovation, lifelong learning and continued professional development
- To fulfill professional ethics and social responsibilities

Programme Outcomes

Graduates will be able:

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

- Apply knowledge of mathematics, science and engineering fundamentals for solving complex engineering problems

- Identify the need, plan and conduct experiments, analyze data for improving the mechanical processes.

- Design and develop mechanical systems considering social and environmental constraints.

- Design and develop a complex mechanical system using research-based knowledge, advanced mathematical, statistical tools and techniques.

- Use information technology (it) tools for prediction and modeling of routine activities to enhance the work performance.

- Know social responsibilities while doing professional engineering practices.

- Familiarize with eco-friendly, sustainable, and safe working environment.

- Take into account professional ethics while designing engineering systems.

- Work efficiently as a group leader as well as an individual.

- Communicate in written and verbal form with subordinates and supervisors.

- Apply project and finance management techniques in multidisciplinary environments.

- Take interest in higher education and update the knowledge.

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)

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Career Prospect

The lucrative career options that stu
can opt for after the B.Tech Robotic
Automation course are:

- Robotics Test Engineer
- Robotics System Engineer
- Robotics Programmer
- Aerospace Robotics Engineer
- Robotics Specialist
- Robotics Technician

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📄 **Curriculum**   📄 **Syllabus I Year**   📄 **Syllabus II Year**

📄 **Robotics CBCS 2020 Course**   📄 **COURSE STRUCTURE CBCS-2021**