



Amrutvahini Sheti & Shikshan Vikas Sanstha's
AMRUTVAHINI COLLEGE OF ENGINEERING
Sangamner- 422 608, Dist-Ahmednagar

AUTOMATION AND ROBOTICS DEPARTMENT



Vision

Create able Automation and Robotics engineers through excellence in academics and industry – institute – interaction.



Mission

- M - 1 :** To produce confident and professionally sound Automation and Robotics Engineers.
- M - 2 :** To keep pace with recent development in academics/industry by strengthening the skill sets.
- M - 3 :** To apply Automation and Robotics engineering knowledge for the benefit of society.

Program Educational Objectives (PEO's)

- PEO-1:** To blend students with a solid foundation in mathematical, scientific and engineering fundamentals that will enable them to have a successful career in Automation and Robotics and its allied Industries.
- PEO-2:** To have in-depth and recent knowledge of Automation and Robotics to deal with multidisciplinary domain.
- PEO-3:** Possess an innovative mind with better interpersonal skills with ethical values and team spirit leading to responsible & competent professionals.

Program Specific Outcomes (PSO's)

- PSO-1:** To be able to think critically, creatively and analytically in developing technological solutions to problems in Automation and Robotic system using multidisciplinary approach.
- PSO-2:** To be able to handle collaboration between Automation and Robotics related functions.
- PSO-3:** To be able to understand professional, ethical and social responsibilities and engage in lifelong learning.



GPS Map Camera



Ghulewadi, Maharashtra, India

Department of Automation & Robotics, AVCOE, Ghulewadi,
Maharashtra 422608, India

Lat 19.612768°

Long 74.18602°

Friday, 08th December 2023 09:54 AM GMT +05:30



Amrutvahini Sheti & Shikshan Vikas Sanstha's
AMRUTVAHINI COLLEGE OF ENGINEERING
Sangamner- 422 608, Dist-Ahmednagar



Vision

To create opportunities for rural students to become able engineers and technocrats through continual excellence in engineering education.



Mission

Our mission is to create self-disciplined, physically fit, mentally robust and morally strong engineers and technocrats with high degree of integrity and sense of purpose, who are capable to meet challenges of ever advancing technology for the benefit of mankind and nature.

We, the management, the faculty and staff, therefore promise to strive hard and commit ourselves to achieve this objective through a continuous process of learning and appreciation of needs of time.

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Quality Policy

The Amrutvahini College of Engineering is committed to develop in young minds the state – of – the – art technology and high academic ambience by synergising spiritual values and technological competence continually in a learning environment.



Quality Objectives

- To strive hard for academic excellence and synergizing spiritual & moral values.
- To improve overall development of student.
- To enhance industry-institute interaction.
- To provide assistance for placement and entrepreneurship development.
- To promote and encourage R&D activities.

STUDENTS ASSOCIATION OF AUTOMATION & ROBOTICS



स्नेहाचा सुगंध दरवळला

वक्रतुण्ड महाकाय

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Vision
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Mission
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We, the management, the faculty and staff, therefore promise to strive hard and commit ourselves to achieve this objective through a continuous process of learning and appreciation of needs of time.

AUTOMATION AND ROBOTICS DEPARTMENT

Vision
Create able Automation and Robotics engineers through excellence in academics and industry – institute – interaction.

Mission

- M - 1 : To produce confident and professionally sound Automation and Robotics Engineers.
- M - 2 : To keep pace with recent development in academics/industry by strengthening the skill sets.
- M - 3 : To apply Automation and Robotics engineering knowledge for the benefit of society.

Program Educational Objectives (PEO's)

- PEO-1: To blend students with a solid foundation in mathematical, scientific and engineering fundamentals that will enable them to have a successful career in Automation and Robotics and its allied Industries.
- PEO-2: To have in-depth and recent knowledge of Automation and Robotics to deal with multidisciplinary domain.
- PEO-3: Possess an innovative mind with better interpersonal skills with ethical values and team spirit leading to responsible & competent professionals.

Program Specific Outcomes (PSO's)

- PSO-1: To be able to think critically, creatively and analytically in developing technological solutions to problems in Automation and Robotic system using multidisciplinary approach.
- PSO-2: To be able to handle collaboration between Automation and Robotics related functions.
- PSO-3: To be able to understand professional, ethical and social responsibilities and engage in lifelong learning.



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Amrutvahini College of Engineering, Sangamner

Amrutvahini Sheti & Shikshan Vikas Sanstha's
Department of Production Engineering

INSTITUTE



VISION
To create opportunities for rural students to become able engineers and technicians through continual excellence in engineering education.



MISSION
Our mission is to create self-disciplined, physically fit, mentally robust and morally strong engineers and technicians with high degree of integrity and sense of purpose technology for the benefit of mankind and nature. Promote to strive hard and commit ourselves to achieve this objective through a continuous process of learning and appreciation of needs of time.



QUALITY POLICY
The Amrutvahini College of Engineering is committed to evolving in young minds the state-of-the-art technology and high academic excellence by synergizing spiritual values and technological competence continually, in a learning environment.



GOAL
1. To strive hard for academic excellence & emerging spiritual & moral values.
2. To improve overall development of students.
3. To enhance industry-institute interaction.
4. To provide assistance for placement & entrepreneurship development.
5. To promote and encourage R&D activities.

PROGRAM



VISION
Create able Production engineers through continual excellence.



MISSION
M1: To transform students into confident and professionally sound Production Engineers.
M2: To keep pace with recent development in academia/industry by strengthening the skill sets.
M3: To apply Production engineering knowledge for the benefit of society.



QUALITY
PEO1: To blend students with a solid foundation in mathematical, scientific and engineering fundamentals that will enable them to have a successful career in core manufacturing and allied industries.
PEO2: To have in-depth and recent knowledge of manufacturing systems and managerial skills to deal with multidisciplinary domains.
PEO3: Possess an innovative mind with better interpersonal skills with ethical values and team spirit leading to responsible & competent professionals.



GOAL
PSC6: To be able to think critically, creatively and analytically in developing technological solutions to problems in manufacturing system using standard tools and techniques.
PSC7: To be able to handle collaboration between engineering and management related functions.
PSC8: To be able to understand professional, ethical and social responsibilities and engage in lifelong learning.



PROGRAM OUTCOMES

PO 1: Design/development of solutions
Design solutions for complex engineering problems that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO 2: Problem Analysis
Identify, formulate, review research literature, and analyze complex engineering problems involving substantial conditions using first principles of mathematics, natural sciences, and engineering sciences problems.

PO 3: Engineering Knowledge
Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO 4: Modern Tool Usage
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.

PO 5: 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.

PO 6: The Engineer and Society
Apply reasoning informed by the constraints of society, culture, safety, health, as well as legal and ethical issues, and the consequent responsibilities inherent to the professional engineering practice.

PO 7: Environment and Sustainability
Understand the impact of the profession on the environment, engineering solutions to societal and environmental issues, and demonstrate the knowledge and need for sustainable development.

PO 8: Ethics
Practice ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO 9: Individual and teamwork
Function effectively as an individual and as a member or leader in diverse teams, and in multidisciplinary settings.



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Amrutvahini
Model School & College

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Amrutvahini Sheti & Shikshan Vikas Sanstha's

Amrutvahini College of Engineering, Sangamner

Department of Electronics and Computer Engineering

INSTITUTE



To create opportunities for rural students to become able engineers and technocrats through continual excellence in engineering education.



Our mission is to create self-disciplined, physically fit, mentally robust and morally strong engineers and technocrats with high degree of integrity and sense of purpose who are capable to meet challenges of ever advancing technology for the benefit of mankind and nature. We, the management, the faculty and staff, therefore promise to strive hard and commit ourselves to achieve this objective through a continuous process of learning and appreciation of needs of time.



The Amrutvahini College of Engineering is committed to develop in young minds the state-of-the-art technology and high academic ambience by synergising spiritual values and technological competence continually, in a learning environment.



1. To strive hard for academic excellence & synergising spiritus & moral values.
2. To improve overall development of student.
3. To enhance industry-institute interaction.
4. To provide assistance for placement & entrepreneurship development.
5. To promote and encourage R&D activities.

PROGRAM



To contribute for improving wellbeing of the students from rural background by imparting interdisciplinary education in the field of Electronics and Computer Engineering.



- M - 1 : To impart basic understanding of Electronic principles and software engineering principles based on a strong foundation of basic sciences and mathematics.
- M - 2 : To train our students to become proficient at putting theory into practice, capable of lifelong learning and be aware of the social and environmental issues.
- M - 3 : To endow students with the knowledge, technical skills and values that prepare them to excel as engineers and leaders in their profession.



Electronics and Computer Engineering graduates will be able to-

- PEO-1: Demonstrate technical competence in diverse fields of careers as engineers, consultants, technocrats and entrepreneurs.
- PEO-2: Contribute their Electronics and Computer Engineering expertise to design, development or maintenance of electronic systems, software systems, devices, instruments, and products.
- PEO-3: Demonstrate leadership, understand professional and ethical responsibilities and contribute for the betterment of the society.
- PEO-4: Communicate effectively, function well as a team member and manage projects in a multi-disciplinary environment.
- PEO-5: Pursue lifelong learning and adapt to the ever advancing technological changes.

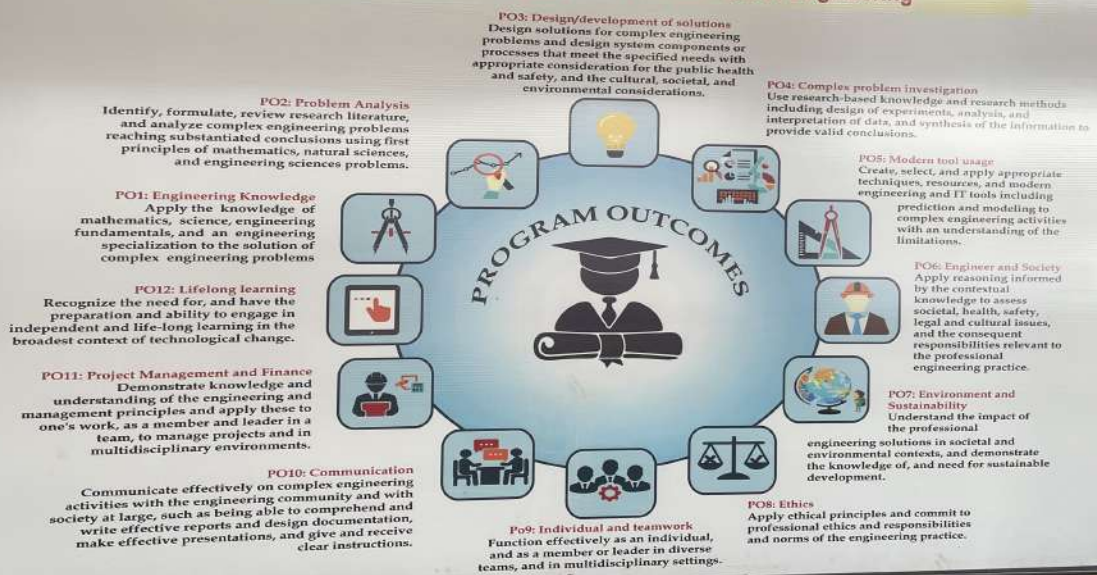


The graduate is expected to acquire -

- PSO-1: An ability to identify, formulate and solve real world problems based on sound knowledge of hardware and software aspect of engineering systems.
- PSO-2: An ability to design electronics circuits, apply programming skills to develop software for embedded systems, IoT applications, desktop and web applications, conduct experiments, analyse and interpret data.
- PSO-3: Skill to use modern tools, instruments, equipment, integrated development environments, compilers and application softwares.



Anrutvahini Sheti & Shikshan Vikas Sanstha's
Amrutvahini College of Engineering, Sangamner
Department of Electronics and Computer Engineering



INSTITUTE



To create opportunities for rural students to become able engineers and technocrats through continual excellence in engineering education.



Vision:
To transfer the rural learners into competent I.T. engineers and technocrats in emerging areas of I.T. Engineering education through continual excellence for the benefit of society.



Mission:
M1: To empower the rural students to be self-disciplined, physically fit, mentally robust and morally strong I.T. professionals.
M2: To provide cutting-edge technical knowledge through continuous process in rapidly changing environment as per need of industry and surrounding world.
M3: To provide opportunities for intellectual and personal growth of individuals in rural platform using high quality Information Technology education.



Program Educational Objectives (PEOs):
PEO-1: To develop competent I.T. graduates with knowledge of fundamental concepts in mathematics, science, engineering and ability to provide solution to complex engineering problem by analyzing, designing and developing using modern I.T. software and tools.
PEO-2: To prepare I.T. graduates with professional skills of better communication, teamwork to manage projects in I.T. field at global level and ability to conduct investigation of complex problems using research based knowledge and research methods.
PEO-3: To develop I.T. graduates with ethical practices, societal contributions through constructive understanding impact of professional engineering solutions to societal and environmental context and ability of lifelong learning.



Program Specific Outcomes (PSOs):
PSO-1: Apply principles of science, mathematics, along with programming, principles and problem solving skills using appropriate tools, techniques, designed to solution in I.T. domain.
PSO-2: Demonstrate core competencies related to I.T. in domain of Data structures & algorithms, Software Engineering & Modeling, Database, Distributed Computing, Networking & security, Transducers, Telecom, multimedia & digital, Machine Learning, Operating System.
PSO-3: Demonstrate leadership qualities and professional skills in custom I.T. platform for creating innovative career paths in placement, entrepreneurship and higher studies.



Amrutvahini College of Engineering, Sangamner

Department of Information Technology

Amrutvahini Sheti & Shikshan Vikas Sanstha's



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We, the management, the faculty and staff, therefore promise to strive hard and commit ourselves to achieve this objective through a continuous process of learning and appreciation of needs of time.

PO-3: 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.

PO-4: Conduct investigation 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.

PO-5: Modern tool usage
Use modern knowledge and modern engineering and IT tools including practices and modeling to complex engineering activities with an understanding of the limitations.

PO-6: Engineer and team
Apply reasoning to assess the technical knowledge to assess technical, health, safety, legal and other issues, and the management response skills to evaluate the professional engineering practice.

PO-7: 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.

PO-8: Ethics
Apply ethical principles and conduct to professional duties and responsibilities and norms of the engineering practice.

PO-9: Individual and team
Function effectively as an individual, and as a member or leader in diverse teams, and in multi-disciplinary settings.

PO-2: Problem analysis
Identify, formulate, analyze research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences problems.

PO-1: Engineering Knowledge
Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO-12: Lifelong 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.

PO-11: Project Management and Finance
Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO-10: Communication
Communicate effectively on complex engineering activities with the engineering community and in the 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.



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