Amrutvahini Sheti & Shikshan Vikas Sanstha's

Amrutvahini College of Engineering, Sangamner
Department of Electronics and Telecommunication Engineering

INSTITUTE

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.

PROGRAM

VISION
To excel in modern trends of Electronics and Telecommunication Engineering through continuous teaching and learning process for nurturing promising engineers

MISSION
1. To excel as state of art technological hub in the field of Electronics and Telecommunication Engineering.
2. To enrich the students by adopting professional skill sets according to modern technological development.
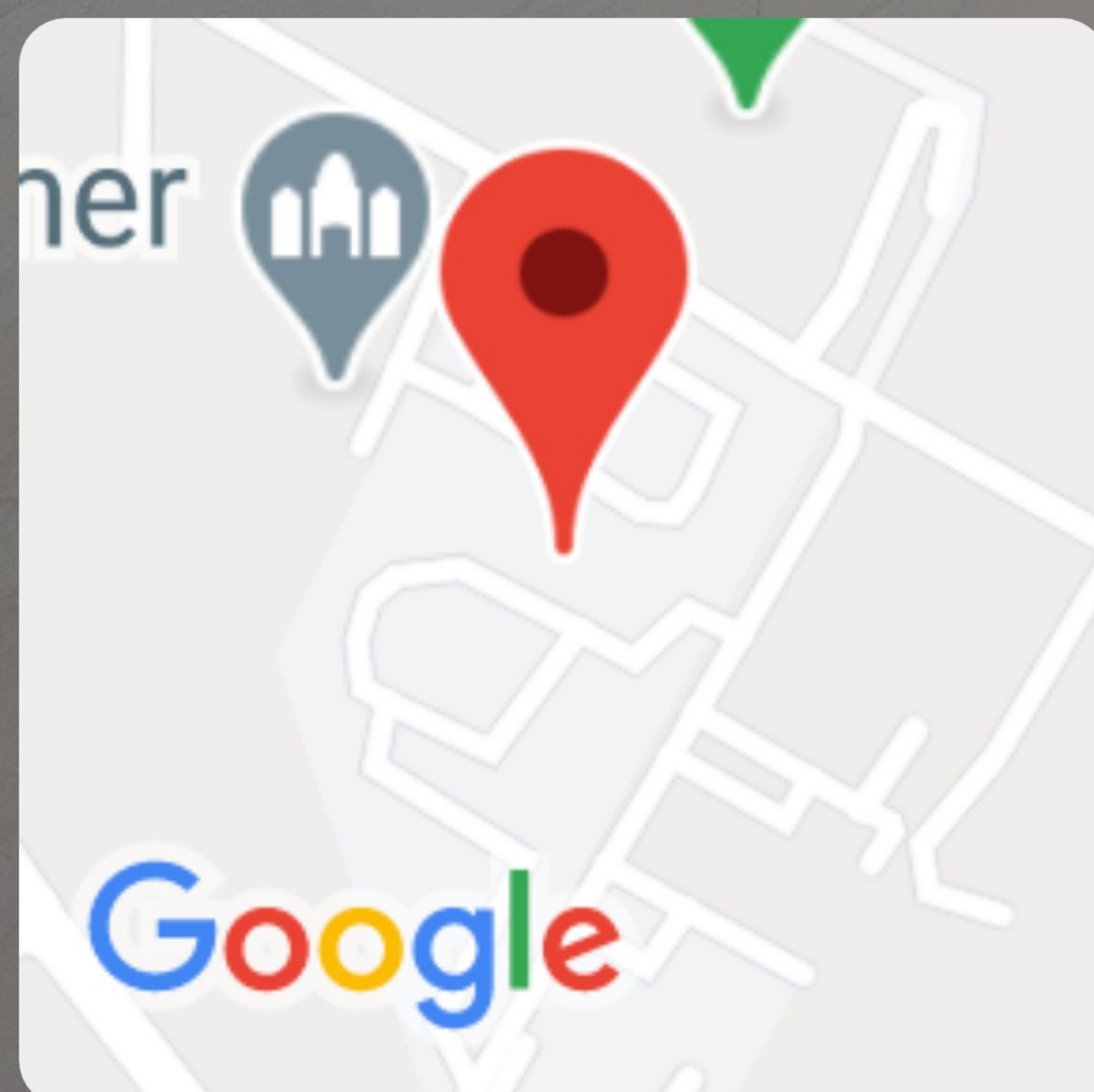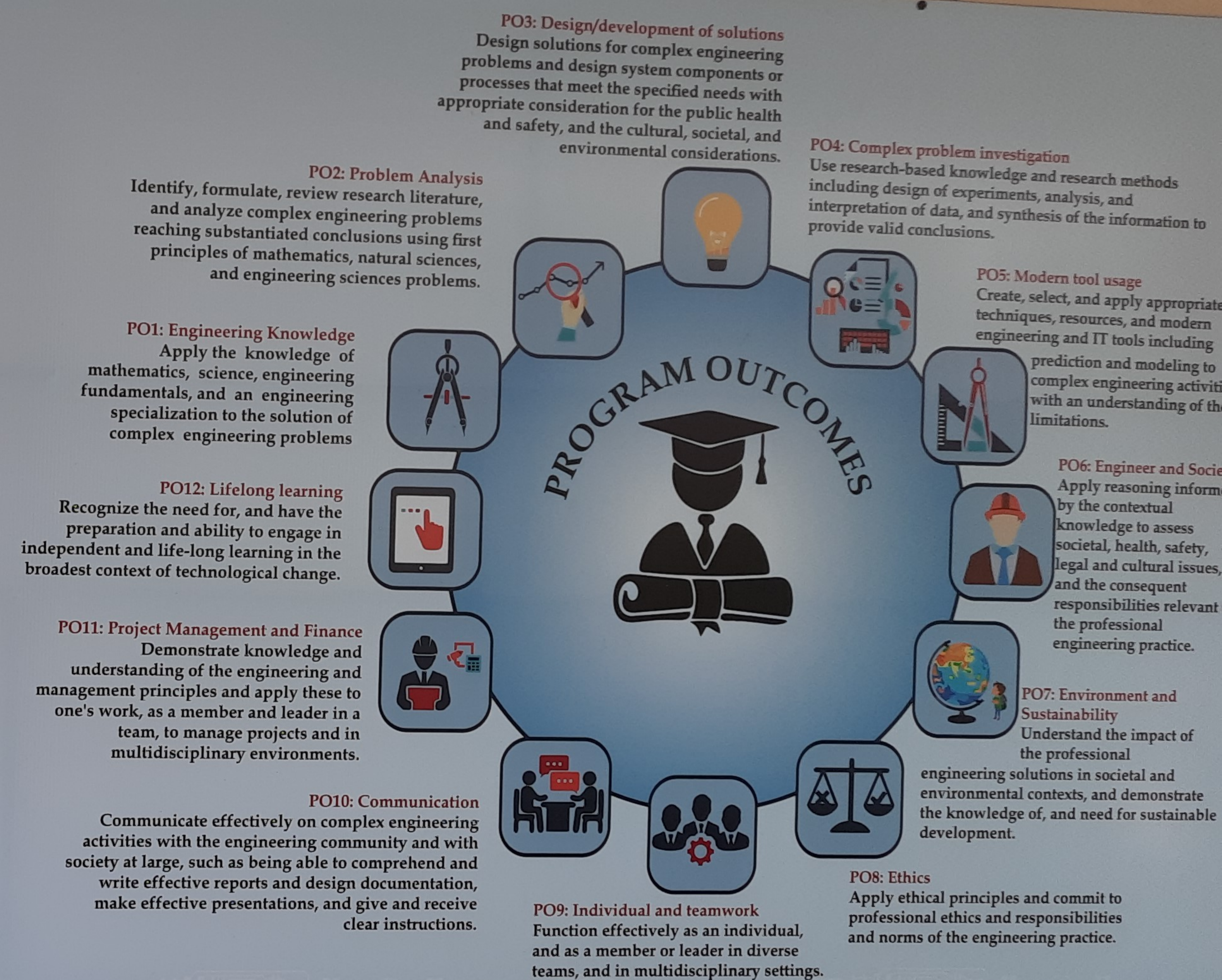3. To develop society oriented value based learning.
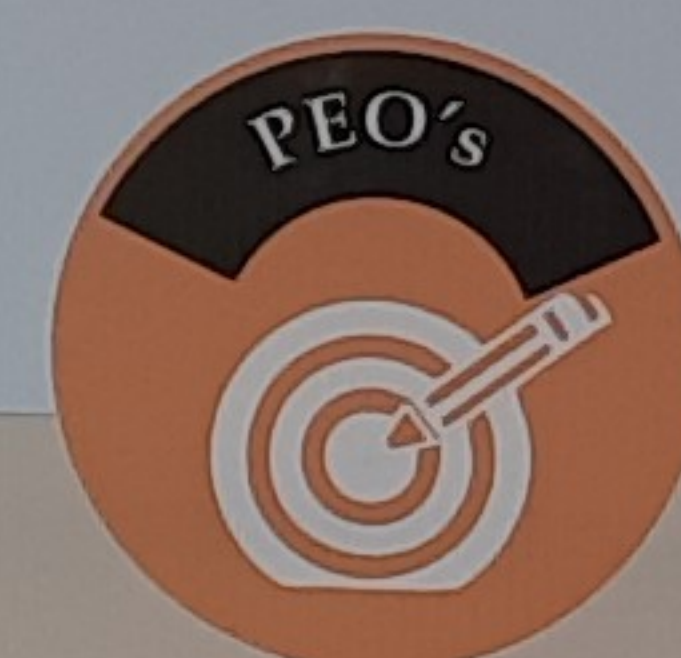
PEO's
1. To develop technically competent graduates with strong background in basic sciences and mathematics with complex problem solving ability in their selected field.
2. To prepare graduates having professional skills viz. ability to communicate, to work individually as well as in multidisciplinary team, to manage the projects with lifelong learning.
3. To develop graduates with high degree of integrity and commitment to society ensuring ethical, moral behaviour and environmental consciousness.
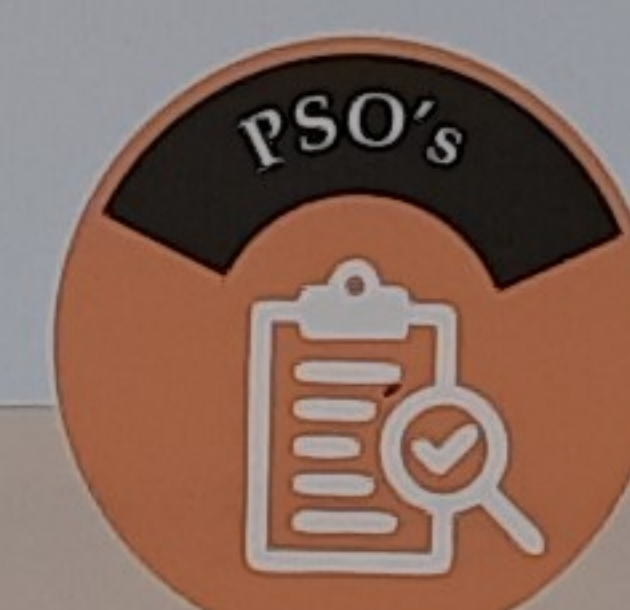
PSO's
1. Apply principles, concepts and knowledge of science and mathematics for solving Electronics and Telecommunication Engineering problems.
2. To identify, design, develop and analyze solutions for given specifications by applying fundamentals of Electronics and Telecommunication engineering.
3. To develop graduates with ability to use modern hardware and software tools in electronics and telecommunication domain.
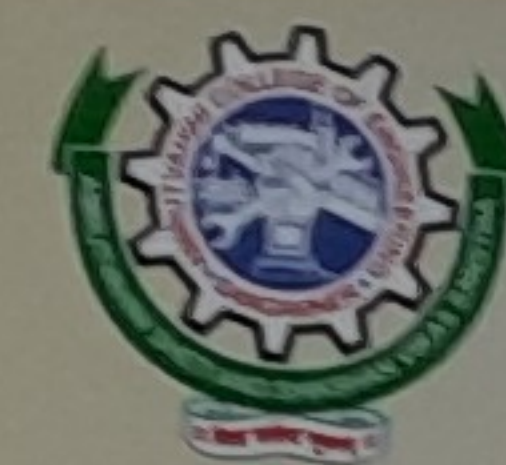
PROGRAM OUTCOMES

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 problems.

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: Complex problem investigation 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 modeling to complex engineering activities with an understanding of the limitations.

PO6: 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 teamwork 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 work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12: 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.

Amrutvahini Sheti & Shikshan Vikas Sanstha's

Amrutvahini College of Engineering, Sangamner

Department of Computer Engineering

INSTITUTE

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 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.

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

1. To strive hard for academic excellence & synergising spiritual & 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

VISION

To serve the needs of society through excellent technical education, promoting Industry -Institute Interaction and develop competent and cultured Computer Engineers.

MISSION

M1. - The Mission of Computer Engineering Department is to effectively develop and channelize creative talents of students to face challenges posed by ever-changing computing industry with enhancement in Industry Institute interaction.

M2. - The Head and the staff of Computer Engineering Department commit themselves to inculcate good moral values and shape a strong academic background of the pupil so important to work towards the betterment of the society as able technocrat and responsible citizen.

PEOs
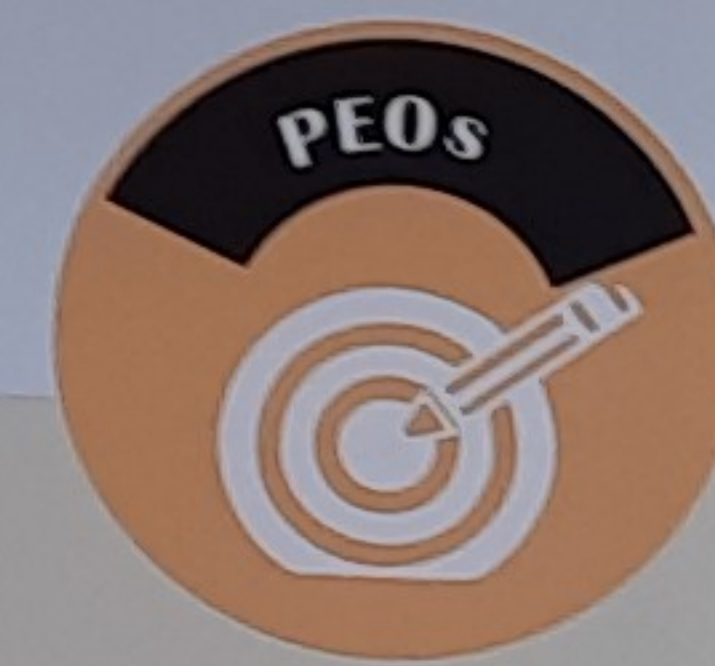
UG

Program Educational Objectives :
PEO-1. To prepare globally competent graduates having strong fundamentals, domain knowledge, updated with modern technology to provide the effective solutions for engineering problems.
PEO-2. To prepare the graduates to work as a committed professional with strong professional ethics and values, sense of responsibilities, understanding of legal, safety, health, societal, cultural and environmental issues.
PEO-3. To prepare committed and motivated graduates with research attitude, lifelong learning, investigative approach, and multidisciplinary thinking.
PEO-4. To prepare the graduates with strong managerial and communication skills to work effectively as individual as well as in teams.
PEO-5. To Provide opportunities of Industry-institute interactions and to promote Enterpreneurship and Start-ups.

PG

Program Educational Objectives :
PEO-1. To prepare globally competent post graduates with enhanced domain knowledge and skills attaining professional excellence and updated with modern technology to provide effective solutions for engineering and research problems.
PEO-2. To prepare the post graduates to work as a committed professionals with strong professional ethics and values, sense of responsibilities, understanding of legal, safety, health, societal, cultural and environmental issues.
PEO-3. To prepare motivated post graduates with research attitude, lifelong learning, investigative approach, and multidisciplinary thinking to succeed in the career in industry/academia/research
PEO-4. To prepare post graduates with strong managerial and communication skills to work effectively as an individual as well as in teams.

PSOs
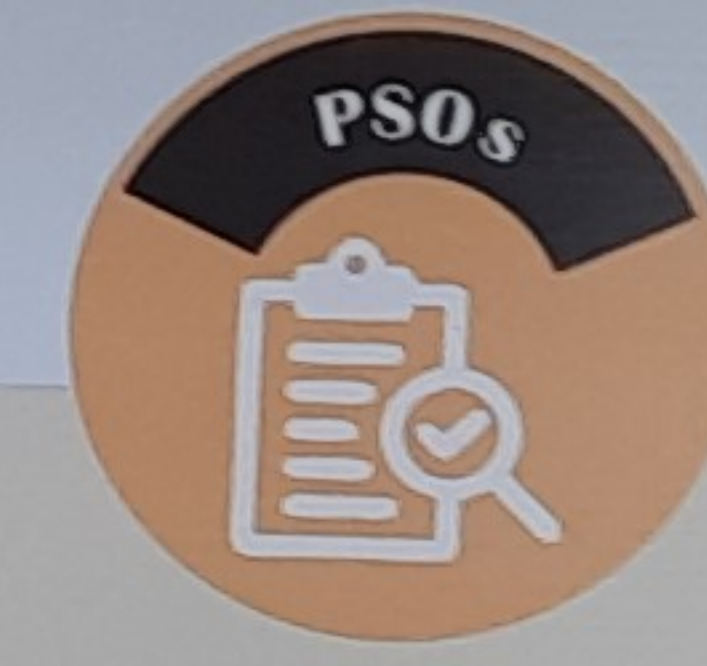
UG

Program Specific Outcomes :
A graduate of the Computer Engineering Program will demonstrate :-
PSO-1. Professional Skills -The ability to understand, analyze and develop computer programs in the areas related to algorithms, system software, multimedia, web design, big data analytics, and networking for efficient design of computer-based systems of varying complexities.
PSO-2. Problem-Solving Skills- The ability to apply standard practices and strategies in software project development using open-ended programming environments to deliver a quality product for business success.
PSO-3. Successful Career and Entrepreneurship-The ability to employ modern computer languages, environments and platforms in creating innovative career paths to be an entrepreneur and to have a zest for higher studies.

PG

Program Specific Outcomes (PSO) :
A post graduate of the Computer Engineering Program will demonstrate-
PSO-1: Professional Skills:- The ability to understand, analyze and develop software in the areas related to system software, multimedia, web design, big data analytics, networking, and algorithms for efficient design of computer-based systems of varying complexities.
PSO-2: Problem-Solving Skills:- The ability to apply standard practices and strategies in software project development using open-ended programming environments to deliver a quality product for business success.
PSO-3: Successful Career and Entrepreneurship:- The ability to employ modern computer languages, environments, and platforms in creating innovative career paths to be an entrepreneur, with zest for research.
PSO-4: Research Skills:- The ability to study, experiment, interpret, analyze and explore the solutions to the engineering problems which are effective, efficient, optimized and feasible.

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

PROGRAM OUTCOMES

PO1: Engineering Knowledge
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PO5: Modern tool usage
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PO6: Engineer and Society
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PO7: Environment and Sustainability
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PO8: Ethics
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Po9: 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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PO12: 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.

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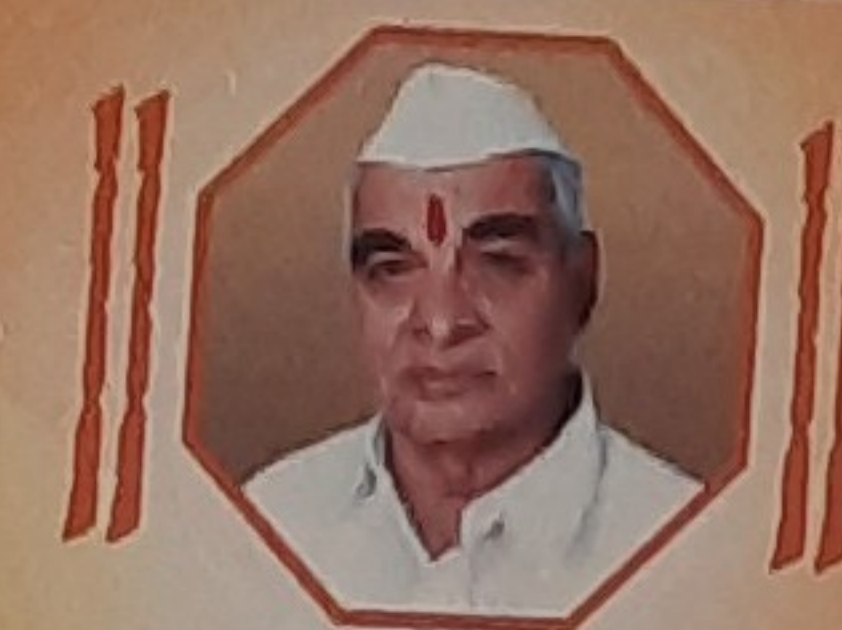12/03/21 02:58 PM
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Department of
Electronics Engineering

AMRUTVAHINI SHETI & SHIKSHAN VIKAS SANSTHA'S
AMRUTVAHINI
COLLEGE OF ENGINEERING, SANGAMNER
DEPARTMENT OF ELECTRONICS ENGINEERING

VISION

- To contribute for improving wellbeing of the students from rural background by imparting quality education in the field of Electronics Engineering.

MISSION

- To impart basic understanding of Electronics Engineering built on a foundation of basic sciences, mathematics.
- The faculty and staff of the department is committed to train the students to become proficient at putting theory into practice, capable of lifelong learning and be aware of the social and environmental issues.
- The department is dedicated to endow students with the knowledge, technical skills and values that prepare them to excel as engineers and leaders in their profession.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

The graduate is expected to acquire -

- An ability to identify, formulate and solve electronics engineering problems.
- An ability to design electronics circuits, conduct experiments, analyse and interpret data.
- Skill to use modern electronics engineering tools, software and equipment.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

Electronics engineering graduates will be able to -

- Demonstrate the ability to analyse and solve engineering problems through application of knowledge of mathematics, science, and engineering.
- Design, test and implement electronic systems using modern tools and technologies.
- Demonstrate leadership, understand professional and ethical responsibilities and contribute for the betterment of the society.
- Communicate effectively and function well as a team member and be able to manage projects in a multi-disciplinary environment.
- Pursue lifelong learning in the broadest context of ever advancing technological change and the needs of time.

AMRUTVAHINI SHETI & SHIKSHAN VIKAS SANSTHA'S
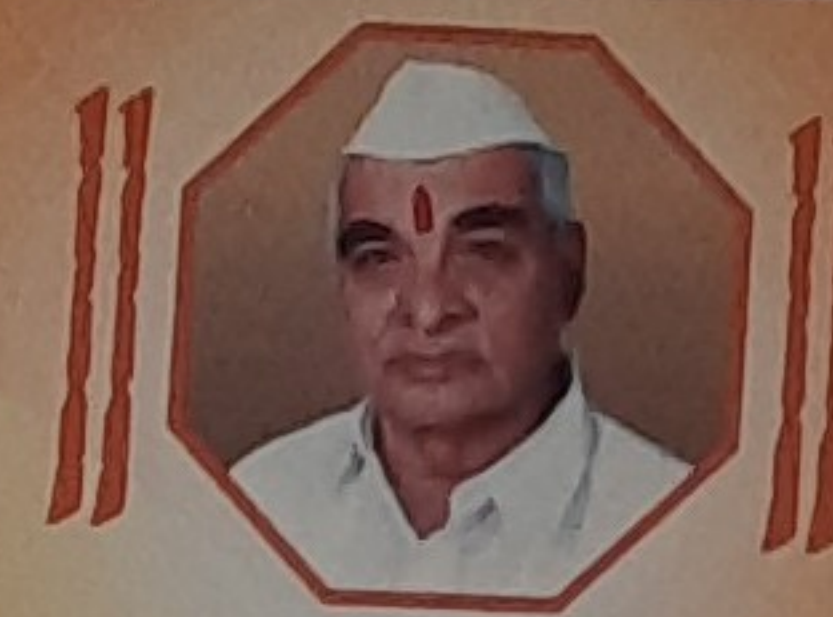
AMRUTVAHINI
COLLEGE OF ENGINEERING, SANGAMNER
DEPARTMENT OF ELECTRONICS ENGINEERING

PROGRAM OUTCOMES (POs)

Engineering Graduates will be able to:

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