SARANATHAN COLLEGE OF ENGINEERING

Program Outcomes

The Graduates will have the ability to

1. **Engineering knowledge:**
   Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **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.
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.
4. **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.
5. **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.
6. **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.
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.
8. **Ethics:**
   Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:**
   Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **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.
11. **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.
12. **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.

SARANATHAN COLLEGE OF ENGINEERING

4. Department of EEE

Vision of the Department

Mission of the Department

Program Educational Objectives (PEOs)

The Graduates of Electrical and Electronics Engineering will

Program Specific Outcomes (PSOs)

Graduates of Electrical and Electronics Engineering will be able to


Program Outcomes
GPS Map Camera
Panjappur, Tamil Nadu, India
QM42+M8H, Panjappur, Tamil Nadu 620012, India
Lat 10.755961°
Long 78.65142°
24/12/21 10:37 AM
Google

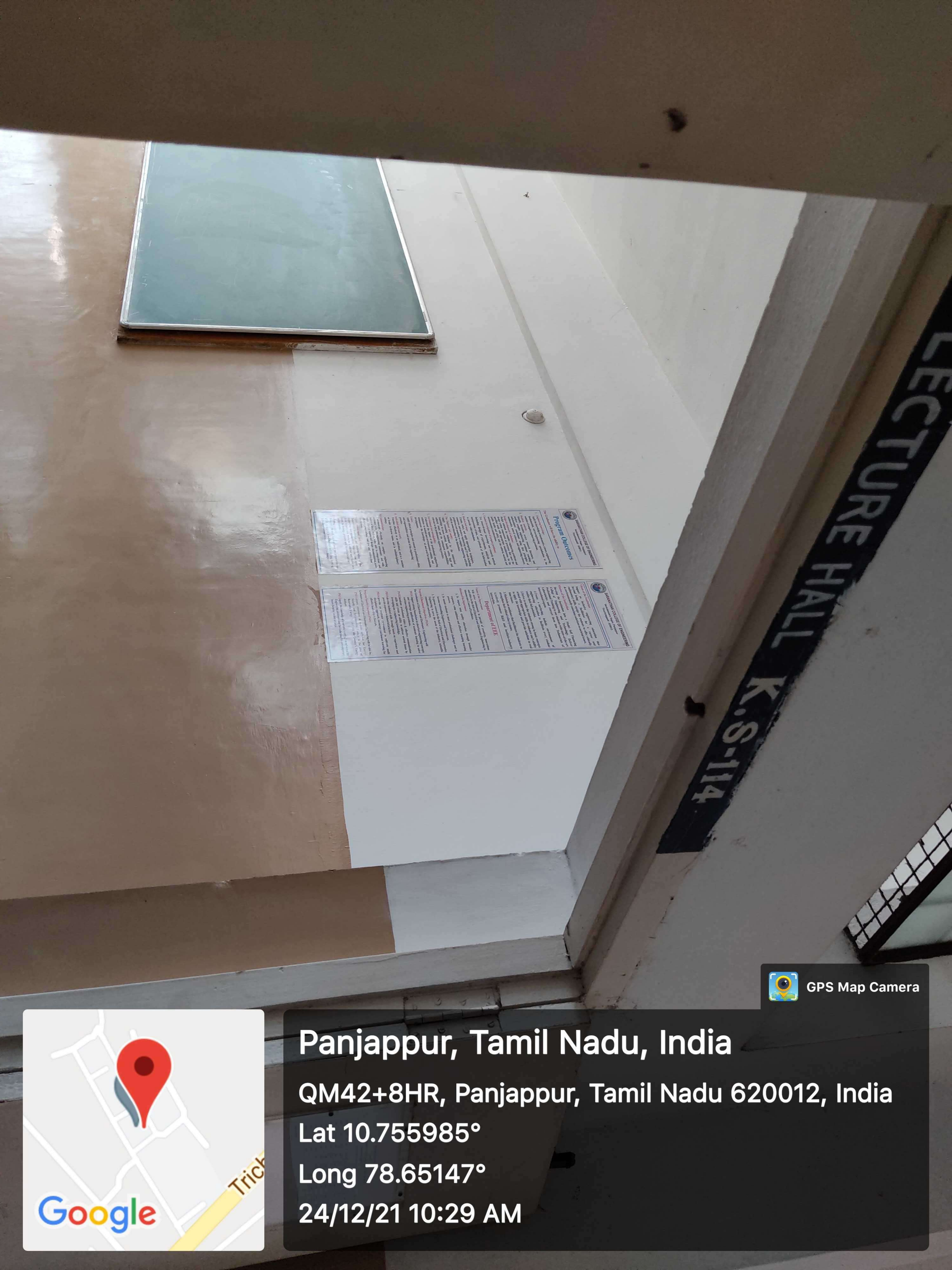
Department of EEE
Academic Programs
Facilities
Faculty
Research Cell
E-Journal
AU Dept. Performance
Consultancy
Institute Industry Partnership Cell
Events
Placement Details

Vision of the Department:

- Will strive continuously in pursuit of creativity, innovations and ethics in the field of Electrical and Electronics Engineering to blossom into Centre of Excellence.

Mission of the Department:

- To impart total quality education through broader exposure, value additions and effective teaching learning process.
- To mould students to meet professional challenges and to become outstanding Engineers and Technocrats.
- To pursue research in the field of Electrical and Electronics Engineering to serve the needs of the industry, scientific community and society.


Program Outcomes
Department of EEE
LECTURE HALL
GPS Map Camera
Panjappur, Tamil Nadu, India
QM42+8HR, Panjappur, Tamil Nadu 620012, India
Lat 10.755985°
Long 78.65147°
24/12/21 10:29 AM
Google

SARANATHAN COLLEGE OF ENGINEERING
Vendaleswara Nagar, Panjappur
Tiruchirappalli - 620012

Program Outcomes

The Graduates will have the ability to

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **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.
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.
4. **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.
5. **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.
6. **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.
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.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **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.
11. **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.
12. **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.

SARANATHAN COLLEGE OF ENGINEERING
Vendaleswara Nagar, Panjappur
Tiruchirappalli - 620012

Vision of the Institution

Impart an inclusive engineering education that is beyond being a facilitator for career and rudimentary skills, equips the students to offer ethically & environmentally conscious solutions to societal issues.

Mission of the Institution

Develop the Institution into a Model Self Financing College of Engineering and Technology. Deliver Professional Training to our students with state-of-the art Laboratories and convert them into Technocrats of international repute.

1.Create a nurturing, holistic environment of engineering education to facilitate every student realize their full potential.

2.Strive to make the students strong in basic concepts armed with appropriate skills to enhance one's ability to apply the knowledge and provide solutions to real time issues.

3.Maintain an ambience that facilitates the students to strengthen their ethical value systems.

4.Actively promote R&D and institute-industry interaction.

Department of EEE

Vision of the Department

Will strive continuously in pursuit of creativity, innovations and ethics in the field of Electrical and Electronics Engineering to blossom into Centre of Excellence.

Mission of the Department

1. To impart total quality education through broader exposure, value additions and effective teaching learning process.
2. To mould students to meet professional challenges and to become outstanding Engineers and Technocrats.
3. To pursue research in the field of Electrical and Electronics Engineering to serve the needs of the industry, scientific community and society.

Program Educational Objectives (PEOs)

The Graduates of Electrical and Electronics Engineering will

PEO1:impart strong foundation in electrical engineering concepts and encourage application of academic learning to solve real time engineering problems.

PEO2:inculcate professional ethics & effective communication skills and create an ability to address societal issues by leveraging one's engineering knowledge.

PEO3:develop technical skills through hands on experience and provide exposure to industrial practices.

PEO4:provide an academic environment to cultivate multi disciplinary approach, encourage continuous learning for effective leadership to flourish.

Program Specific Outcomes (PSOs)

Graduates of Electrical and Electronics Engineering will be able to:

PSO 1:create awareness & provide solution for Energy Security and Environmental Concern in the area of Renewable Energy to meet out the Country's Energy demand.

PSO 2:apply the knowledge of academic learning's to solve real life Engineering problems and find solutions for contemporary issues faced by society at large.

GPS Map Camera

Panjappur, Tamil Nadu, India

QM42+8HR, Panjappur, Tamil Nadu 620012, India

Lat 10.755985°

Long 78.651474°

24/12/21 10:29 AM