



CRITERION – 2 TEACHING - LEARNING AND EVALUATION

2.6 STUDENTS PERFORMANCE AND LEARNING OUTCOME

2.6.1. Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.

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2	Vision & Mission, Program Outcomes (POs), Program Specific Outcomes (PSOs) & Program Educational Objectives (PEOs) of the various programmes – Website screen shot	6



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SRIPERUMBUDUR - 631604.



PROGRAM OUTCOMES

Engineering Graduates will be able to:

1. **Engineering knowledge:** (K3) Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem analysis:** (K4) 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:** (K4) 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:** (K5) 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:** (K3, K5, K6) Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society:** (A3) 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:** (A2) 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:** (A3) Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** (A3) Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. **Communication:** (A3) 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:** (A3) 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:** (A2) 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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VISION & MISSION OF THE COLLEGE

Vision And Mission

Home - About

VISION

Jeppiaar Institute of Technology aspires to provide technical education in futuristic technologies with the perspective of innovative, industrial, and social applications for the betterment of humanity.

MISSION

- To produce competent and disciplined high-quality professionals with the practical skills necessary to excel as innovative professionals and entrepreneurs for the benefit of society.
- To improve the quality of education through excellence in teaching and learning, research, leadership, and by promoting the principles of scientific analysis, and creative thinking.
- To provide excellent infrastructure, serene, and stimulating environment that is most conducive to learning.
- To strive for productive partnership between the industry and the institute for research and development in the emerging fields and creating opportunities for employability.
- To serve the global community by instilling ethics, values, and life skills among the students needed to enrich their lives.

QUALITY POLICY

Vision: “Jeppiaar Institute of Technology aspires to provide technical education in futuristic technologies with the perspective of innovative, industrial and social application for the betterment of humanity.”

NAAC ACCREDITED INSTITUTION

HOME ABOUT ADMISSION ACADEMICS CAREER DEVELOPMENT FACILITIES R&D PDPS NAAC IQAC NBF RANKING & AWARDS LIBRARY FORMS CONTACT

Quality Policy

Home - About

Quality Policy

To pursue global standards of excellence in all our endeavours in teaching, infrastructure, resources, research and continuing education through continual improvement process and effectiveness of the Quality Management System.

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Academics	Featured Links	Facilities
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ENGINEERING PROGRAMMES

https://www.jeppiaarinstitute.org/quality_policy.php

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ACCREDITATION COUNCIL
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DEPARTMENT OF IT
DEPARTMENT OF ECE
DEPARTMENT OF EEE
DEPARTMENT OF MECH
DEPARTMENT OF S & H
DEPARTMENT OF MBA

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Rain to stop

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PROGRAMME -COMPUTER SCIENCE AND ENGINEERING

VISION & MISSION



VISION

To impart futuristic technological education, innovation and collaborative research in the field of Computer Science Engineering and develop Quality Professional for the improvement of the society and industry.

MISSION

- M1:** Devise students as Professionally competent and disciplined engineers for the benefit of the country's development.
- M2:** Produce excellent to adopt latest technologies, industry-institute interaction and encouraging research activities.
- M3:** Provide multidisciplinary technical skills to pursue research activities, higher studies, entrepreneurship and perpetual learning.
- M4:** Enrich students with professional integrity and ethical standards to handle social challenges successfully in their life.

PROGRAMME EDUCATIONAL OUTCOME



PROGRAM EDUCATIONAL OBJECTIVE

- PEO 1:** To support students with substantial knowledge for developing and resolving mathematical, scientific and engineering problems.
- PEO 2:** To provide students with adequate training and opportunities to work as a collaborator with informative and administrative qualities.
- PEO 3:** To motivate students for extensive learning to prepare them for graduate studies, R&D and competitive exams.
- PEO 4:** To cater students with industrial exposure in an endeavour to succeed in the emerging cutting-edge technologies.
- PEO 5:** To shape students with principled values and to follow the code of ethics in social and professional life.



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PROGRAMME OUTCOME & PROGRAMME SPECIFIC OUTCOME







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Department Of CSE

Home > Academics

PROGRAM OUTCOMES

Engineering Graduates will be able to:

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- 6. The engineer and society: (A3)** 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: (A2)** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
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- 11. Project management and finance: (A3)** 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: (A2)** 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.

PROGRAM SPECIFIC OUTCOMES

- PSO1:** Analyze, design, and implement quality software by applying fundamental and programming concepts of Computer Science and Engineering
- PSO2:** Design and develop solutions for scientific, business and real time applications through analytical, logical and problems solving skills.
- PSO3:** Provide efficient solutions for industrial and society needs with acquired knowledge through emerging technical skills

COURSE OUTCOMES

CSE – 2017 Course Outcomes




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PROGRAMME-MECHANICAL ENGINEERING

VISION & MISSION



VISION

To enhance advanced technical education in the field of Mechanical engineering with the view of transformation in societal and industrialized requirements offering a platform for excellence towards mankind.

MISSION

- M1:** To develop quality education with the global need.
- M2:** To provide state of art facilities to faculty members and students to apply their innovative thoughts towards communal development.
- M3:** To facilitate team work culture and promote student community to adapt industrial setup.
- M4:** To develop the research fervour among the students and encourage them to shape inventive ideas.
- M5:** To serve the global community by ethical values and core skills.

PROGRAMME EDUCATIONAL OUTCOME



PEO's-Program Educational Objectives

- PEO1:** Have a successful career in Mechanical Engineering and allied industries.
- PEO2:** Have expertise in the areas of Design, Thermal, Materials and Manufacturing.
- PEO3:** Contribute towards technological development through academic research and industrial practices.
- PEO4:** Practice their profession with good communication, leadership, ethics and social responsibility.
- PEO5:** Graduates will adapt to evolving technologies through life-long learning.



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PROGRAMME OUTCOME & PROGRAMME SPECIFIC OUTCOME

The screenshot shows the website header for the Department of Mechanical Engineering at JEPPIAAR Institute of Technology. It features the institute's logo, accreditation logos (AACSB, CII, ISO 9001:2015, NAAC), and navigation links: Register Here, APPLY NOW, Fee Payment. The main heading in Tamil is 'ஜேபியார் தொழில்நுட்பக் கல்லூரி' with the motto 'சுய நம்பிக்கை, சுய ஆளுக்கம், சுய மரியாதை'. Below this is a navigation menu with links like HOME, ABOUT, ADMISSION, ACADEMICS, CAREER DEVELOPMENT, FACILITIES, R&D, PDPS, NAAC, IQAC, NIRF, RANKING & AWARDS, LIBRARY, FORMS, CONTACT. The main title is 'Department Of Mechanical Engineering' with a sub-link 'Home > Academics'.

The screenshot displays the 'PO's-Program Outcomes' and 'PSO's-Program Specific Outcomes' section. It lists 12 Engineering Graduates will be able to: (K1-K6) and 3 Program Specific Outcomes (PSO 1-3).

PO's-Program Outcomes

Engineering Graduates will be able to:

- 1. Engineering knowledge: (K3)** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
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- 12. Life-long learning: (A2)** 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.

PSO's-Program Specific Outcomes

PSO 1: Apply the fundamentals of mathematics, Science and Engineering knowledge to identify, formulate, design and investigate complex engineering problems of electric circuits, analog and digital electronics, electrical machines and systems.

PSO 2: Develop the ability to synthesize data for application in modeling and analysis software's to enhance the capabilities in simulation and demonstrate leadership qualities in activities related to sustainable development of society.

PSO 3: Understand the impact of Professional Engineering solutions in societal and environmental context, commit to professional ethics and communicate effectively.



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PROGRAMME-ELECTRICAL AND ELECTRONICS ENGINEERING

VISION & MISSION



VISION

To foster contemporary Skills in the field of Electrical and Electronics Engineering with innovatory Skills, Global Understanding and Nation building for the progress of Humankind.

MISSION

- M1:** To Encompass Quality Engineers with skills as persevere to enrich the global technically.
- M2:** To engage in research activities leading to innovative application of technology with Industrial approach for the benefit of mankind.
- M3:** To provide quality structure and beneficial learning system.
- M4:** To enable them as responsible human who value Ethics and environment.

PROGRAMME EDUCATIONAL OUTCOME



PEO's-Program Educational Objectives

- PEO1:** To provide students with the fundamental Knowledge, methodologies and use of cutting-edge Technologies.
- PEO2:** To provide students with an awareness and skills in lifelong learning and self-education.
- PEO3:** To Cultivate Teamwork, Technical writing and Oral communication skills.
- PEO4:** To provide students with an appreciation of engineering impact on society and the Professional responsibilities of an engineers



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PROGRAMME OUTCOME & PROGRAMME SPECIFIC OUTCOME

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Department Of EEE
Home - Academics

PO's-Program Outcomes

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PSO's-Program Specific Outcomes

- PSO 1:** Apply the fundamentals of mathematics, Science and Engineering knowledge to identify, formulate, design and investigate complex engineering problems of electric circuits, analog and digital electronics, electrical machines and systems.
- PSO 2:** Apply appropriate technique and modern Engineering hardware and software tools in power systems to engage in life-long learning and to successfully adapt in multi-disciplinary environments.
- PSO 3:** Understand the impact of Professional Engineering solutions in societal and environment context, commit to professional ethical and communicate effectively.



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PROGRAMME-ELECTRONICS AND COMMUNICATION ENGINEERING

VISION & MISSION



Department Vision

The department will be an excellent centre to impart futuristic and innovative technological education and research in Electronics and Communication Engineering with application Skills to meet industrial expectation and Societal needs with ethical and global awareness for the advancement of humanity.

Department Mission

Produce competent and high-quality professional Engineers in the field of Electronics and Communication Engineering for the benefit of the society globally.

Provide a conducive infrastructure and environment for faculty and students with state-of-the-art laboratories, to create high quality professionals.

Training in multidisciplinary skills needed by Industries, higher education institutions, research establishments and entrepreneurship.

Imparting Human Values and Ethical Responsibilities to handle Socio Economic Challenges of Society.

PROGRAMME EDUCATIONAL OUTCOME



PEO's Of The Department

Endowed with in-depth knowledge and skills in core Electronics and communication engineering required for design and analysis of electronic systems and aptitude for lifelong learning.

Provided with futuristic education along with the perspective for research and application-based skills according to global demands.

Exhibit effective communication skills and ability to work in multidisciplinary teams.

Develop entrepreneurship skills and practice the profession with integrity, leadership, ethics, and social responsibility.



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PROGRAMME OUTCOME & PROGRAMME SPECIFIC OUTCOME

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Department Of ECE

PROGRAM OUTCOMES

Engineering Graduates will be able to:

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PROGRAM SPECIFIC OUTCOMES

PSO

PSO 1: Ability to develop and utilize novel, compact and power efficient coherent theoretical and practical methodologies in the field of analog and digital electronics.

PSO 2: Ability to implement analog, digital and hybrid communication Protocol to aspect the challenges in the field of Telecommunication and Networking.



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PROGRAMME-INFORMATION TECHNOLOGY

VISION & MISSION



VISION

The department will be an excellent centre to impart futuristic and innovative technological education to facilitate the evolution of problem-solving skills along with knowledge application in the field of Information Technology, understanding industrial and global requirements and societal needs for the benefit of humanity.

MISSION

M1: Produce competent and high-quality professional computing graduates in software development considering global requirements and societal needs thereby maximizing employability.

M2: Enhance evolution of professional skills and development of leadership traits among the students by providing favourable infrastructure and environment to grow into successful entrepreneurs.

M3: Training in multidisciplinary skills needed by Industries, higher educational institutions, research establishments and Entrepreneurship.

M4: Impart Human Values and Ethical Responsibilities in professional activities.

PROGRAMME EDUCATIONAL OUTCOME



PEO'S OF THE DEPARTMENT

Provided with a fundamental knowledge in Science, mathematics and computing skills for creative and innovative application.

Enabled students competent and employable by providing excellent Infrastructure to learn and contribute for the welfare of the society.

To channelize the potentials of the students by offering state of the art amenities to undergo research and higher education.

To evolve computing engineers with multi-disciplinary understanding and maximize Job Opportunities.

To facilitate students, obtain profound understanding nature and social requirements and grow as professionals with values and integrity



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PROGRAMME OUTCOME & PROGRAMME SPECIFIC OUTCOME

Department Of Information Technology

PROGRAM OUTCOMES (POs)

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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.

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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.

PROGRAM SPECIFIC OUTCOMES

Students are able to analyse, design, implement and test any software with the programming and testing skills they have acquired.

Students are able to design and develop algorithms for real time problems, scientific and business applications through analytical, logical and problems solving skills.

Students are able to provide security solution for network components and data storage and management which will enable them to work efficiently in the industry.



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