Report on communications to the stakeholders

All the stakeholders are sensitised regarding the Course Outcomes (COs), Program Outcomes (POs), Program Specific Outcomes (PSOs) and Program Educational Objectives (PEOs). Stakeholders include Students, Parents, Faculty, Alumni, Management and Employers.

Every department establishes the POs and PSOs in line with the Graduate Attributes and PEOs of the programme by considering the inputs from Faculty, Alumni, and Stakeholders in the Cognisance of the latest technology demand, Job prospects and Societal requirements. The COs/POs/PSOs/PEOs are displayed in the following locations:

1. Institute Website
2. Department Notice Boards
3. Classroom Notice Boards
4. Laboratory Notice Board

The same information was included in the Student Attendance Register, Laboratory Manual, Laboratory Record, Academic Regulations, and Curriculum Book.

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Programme : Electronics and Communication Engineering

Vision & Mission

Vision

Mission

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Program Outcomes (POs)

Department of Electronics & Communication Engineering

PROGRAM OUTCOMES

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

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

PO 3:
Design solutions for complex engineering problems and design systems, components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.

PO 4:
Conduct investigations of complex problems using research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusions

PO 5:
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.

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PO 6:
Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice.

PO 7:
Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of, and need for sustainable development.

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

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

PO 10:
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 11:
Demonstrate knowledge and understanding of engineering management principles and apply these to one's own work, as a member and leader in a team and to manage projects in multidisciplinary environments.

PO 12:
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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Program Specific Outcomes (PSOs)

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No Resistance can Drop our Potential
ELECTRONICS & COMMUNICATION ENGINEERING

Department of Electronics & Communication Engineering

PROGRAM SPECIFIC OUTCOMES

PSO 1:
Apply the knowledge of Electronics and Communications in analysing problems related to Electronics, Communications, Signal processing, VLSI and Embedded systems

PSO 2:
Use modern tools and techniques to solve contemporary problems in the field of Electronics and Communication Engineering

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APPLY FOR ADMISSIONS   **Join Today**

Program Educational Objectives (PEOs)

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No Resistance can Drop our Potential
ELECTRONICS & COMMUNICATION ENGINEERING

Department of Electronics & Communication Engineering

PROGRAM EDUCATIONAL OBJECTIVES

PEO 1:
Adapt the learning culture needed for a successful professional career to pursue research in line with the latest technological developments

PEO 2:
Design and develop modern electronic and communication Systems for the given requirements by considering technical, environmental and social contexts

PEO 3:
Communicate effectively, demonstrate leadership qualities and develop knowledge of societal impacts of communication technologies with professional ethics

Quick Links
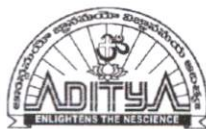
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Programme: VLSI Design

Vision & Mission

Vision

Mission

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Program Outcomes (POs)

PROGRAM OUTCOMES

PO 1:

Scholarship of Knowledge: Acquire in-depth knowledge of specific discipline or professional area, including wider and global perspective, with an ability to discriminate, evaluate, analyze and synthesize existing and new knowledge, and integration of the same for enhancement of knowledge.

PO 2:

Critical Thinking: Analyze complex engineering problems critically, apply independent judgment for synthesizing information to make intellectual and/or creative advances for conducting research in a wider theoretical, practical and policy context.

PO 3:

Problem Solving: Think laterally and originally, conceptualize and solve engineering problems, evaluate a wide range of potential solutions for those problems and arrive at feasible, optimal solutions after considering public health and safety, cultural, societal and environmental factors in the core areas of expertise.

PO 4:

Research Skill: Extract information pertinent to unfamiliar problems through literature survey and experiments, apply appropriate research methodologies, techniques and tools, design, conduct experiments, analyze and interpret data, demonstrate higher order skill and view things in a broader perspective, contribute individually/in group(s) to the development of scientific/technological knowledge in one or more domains of engineering.

PO 5:

Usage of modern tools: Create, select, learn 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.

PO 6:

Collaborative and Multidisciplinary work: Possess knowledge and understanding of group dynamics, recognize opportunities and contribute positively to collaborative-multidisciplinary scientific research, demonstrate a capacity for self-management and teamwork, decision-making based on open-mindedness, objectivity and rational analysis in order to achieve common goals and further the learning of themselves as well as others.

PO 7:

Project Management and Finance: Demonstrate knowledge and understanding of engineering and management principles and apply the same to one's own work, as a member and leader in a team, manage projects efficiently in respective disciplines and multidisciplinary environments after consideration of economical and financial factors.

PO 8:

Communication: Communicate with the engineering community, and with society at large, regarding complex engineering activities confidently and effectively, such as, being able to comprehend and write effective reports and design documentation by adhering to appropriate standards, make effective presentations, and give and receive clear instructions.

PO 9:

Life-long Learning: Recognize the need for, and have the preparation and ability to engage in life-long learning independently, with a high level of enthusiasm and commitment to improve knowledge and competence continuously.

PO 10:

Ethical Practices and Social Responsibility: Acquire professional and intellectual integrity, professional code of conduct, ethics of research and scholarship, consideration of the impact of research outcomes on professional practices and an understanding of responsibility to contribute to the community for sustainable development of society.

PO 11:

Independent and Reflective Learning: Observe and examine critically the outcomes of one's actions and make corrective measures subsequently, and learn from mistakes without depending on external feedback.

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Program Specific Outcomes (PSOs)

Department of VLSI Design

PROGRAM SPECIFIC OUTCOMES

PSO 1:
Acquire competency in areas of VLSI including IC Fabrication, Design, Testing, Verification and prototype development focusing on applications.

PSO 2:
Design, implement, analyze and interpretation of VLSI projects using CAD& EDA tools: Cadence-Spice, Xilinx ISE, MATLAB, Mentor graphics, micro wind, DSCH

PSO 3:
Integrate multiple sub-systems to develop System on Chip, optimize its performance and excel in industry sectors related to VLSIdomain.

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Program Educational Objectives (PEOs)

Department of VLSI Design

PROGRAM EDUCATIONAL OBJECTIVES

PEO 1:
Identify and apply appropriate Electronic Design Automation (EDA) to solve real world problems in VLSI domain to create innovative products and systems.

PEO 2:
Develop managerial skill and apply appropriate approaches in the domain of VLSI design incorporating safety, sustainability and become a successful professional or an entrepreneur in the domain.
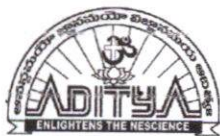
PEO 3:
Pursue career in research in VLSI design domain through self-learning and self-directed on cutting edge technologies

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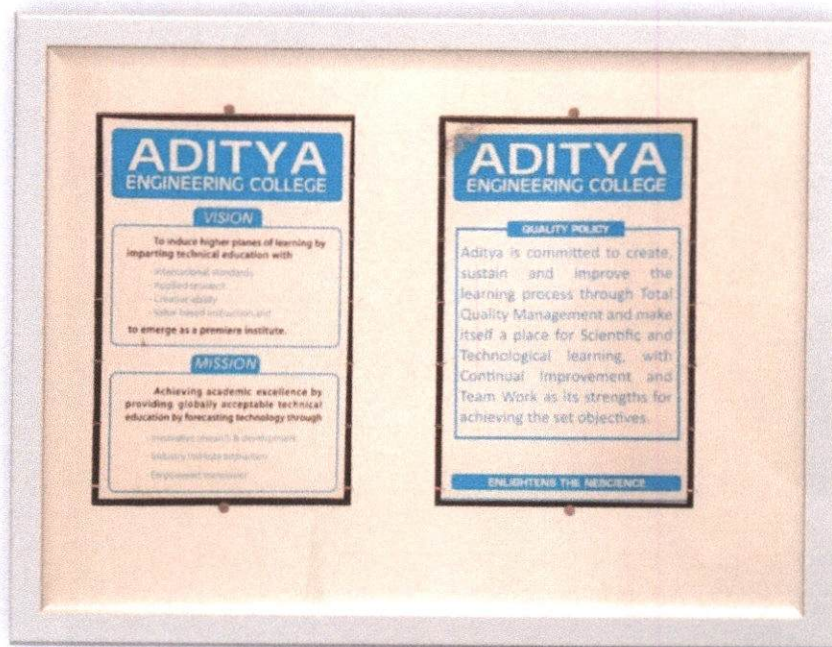Aditya Engineering College
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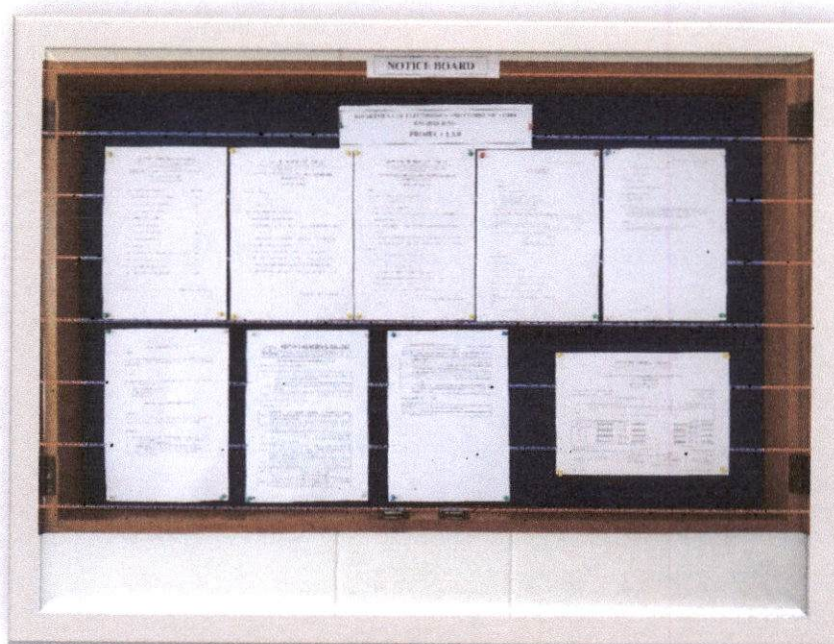An Autonomous Institution
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Display Board - Vision, Mission & Quality Policy of the Institution (Cotton Bhavan First Floor)

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Notice Board - Vision, Mission, POs, PSOs & PEOs of the Department of Electronics and Communication Engineering and Course Outcomes (COs) of IoT Lab (Cotton Bhavan First Floor Project Lab)

Display Board - Vision, Mission, POs & PEOs of the Department of Electronics and Communication Engineering (Cotton Bhavan First Floor)

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