



# AISHWIRYA COLLEGE OF ENGINEERING AND TECHNOLOGY

Paruvachi, Bhavani - 638312.

Web: aishwaryacollege.com, E-mail: acetdr@gmail.com

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## Department Details for Website

### Name of the Department: Electrical and Electronics Engineering

#### 1. Vision:

- To produce graduates with foundation in electrical and electronics engineering who can cater to the dynamic needs of the industry and to provide a diverse and stimulating environment for research

#### 2. Mission:

- To enhance the industrial relationship for improving the quality of engineering graduates
- To promote excellence in teaching, Research and contribution to the society.
- To Provide balanced technical education for equipping the graduates to work in multi disciplinary field
- To establish the necessary infrastructure to meet the industrial and R&D needs.

#### 3. About the Department:

- The Department of electrical and electronics engineering was started in the year 2010 to equip the student with confidence necessary to contribute the society by performing in the respective chosen field of endeavor.
- The Department's mission is to generate employable electrical engineering graduates with knowledge, skill and ethics; provide them with professional and soft skill necessary to lead successful career and peaceful life.

- The department has a team of committed faculty members who are not only well qualified but are backed by rich industrial/ teaching/ research experience
- The department is well equipped with excellent laboratory with Wi-Fi facilities

#### **4. Laboratory Facilities:**

<b>Laboratory Name</b>
Electrical Circuit Laboratory
Engineering practice Laboratory
Electronics laboratory
Linear and Digital Integrated Circuits Laboratory
Electrical Machines Laboratory -I
Control and Instrumentation Laboratory
Electrical Machines Laboratory -II
Power Electronics and Drives Laboratory
Power Systems and Simulation laboratory

#### **Equipment Details.**

<b>Equipment Name</b>	<b>Cost</b>
Electrical Equipments	10,00,000

#### **5. Software Available:**

<b>Software Name</b>
MATLAB

**6. Value Added Course (VAC):**

<b>VAC Name</b>
Electrical power system
Intelligent optimization techniques using MATLAB
Energy Audit and Management
Introduction to Virtual instrumentation
Smart Grid Technologies
Electrical safety
Biosignal Image Processing
Automotive Electronics
Wind Energy Conversion System

<b>Faculty In charge</b>	
Name	SANTHOSH.E
Designation	Asst.Professor
Qualification	M.E
Experience	5 years 3 months

## 7. Faculty Profile:

- All the faculty details of our department (both active and inactive) in the following table.

<b>Faculty Profile</b>		
1	Name:	SAKTHI SRINIVASAN.M
	Designation	Professor & Head
	Qualification	M.E
	Experience	14 years
2	Name:	BALASUDHA.T
	Designation	Asst.Professor
	Qualification	M.E
	Experience	3 years
3	Name:	SANTHOSH.E
	Designation	Asst.Professor
	Qualification	M.E
	Experience	6 years
4	Name:	DHANABAL.R
	Designation	Asst.Professor
	Qualification	M.E
	Experience	1 year
5	Name:	PRATHAP.M.R
	Designation	Asst.Professor
	Qualification	M.E
	Experience	1 year
6	Name:	TAMILARASI.A.K
	Designation	Asst.Professor
	Qualification	M.E
	Experience	5 Years
7	Name:	GOBALAKRISHNAN.S
	Designation	Asst.Professor
	Qualification	M.E
	Experience	1 years
8	Name:	JAYASATHYA.J

	Designation	Asst.Professor
	Qualification	M.E
	Experience	1 years
9	Name:	BRABHU KALAIYARASAN.M
	Designation	Asst.Professor
	Qualification	M.E
	Experience	2 years

### **8. Program Educational Objectives (PEOs):**

- The Program Educational Objectives (PEOs) of the Department represent major accomplishments that the graduates are expected to achieve after three to five years of graduation. The Graduates of Electrical and Electronics Engineering will be able to
  - PEO1: Design and develop electronic circuits and systems, based on the existing as well as emerging technologies.
  - PEO2: Pursue higher education, research and continue to learn in their profession.
  - PEO3: Become a successful professional engineer in Electronics/ Electrical/allied fields.
  - PEO4: Have the social responsibility, team work skill, leadership capabilities and lifelong learning in their professional field

### **9. Program Outcomes (POs):**

- Graduates of Electrical and Electronics Engineering will be able to
  - 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.
  - 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. 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.
- 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. 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.
- 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 team work: 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 own work,

as a member and leader in a team, to manage projects and in multidisciplinary environments.

- PO12. 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.

#### 10. Placement Coordinator:

Faculty Incharge		
1	Name:	PRATHAP.M.R
	Designation	Asst.Professor
	Qualification	M.E
	Experience	1 year

#### 11. Clubs and Activities

- **Communication Skill Development club**

Faculty Incharge		
1	Name:	PRATHAP.M.R
	Designation	Asst.Professor
	Qualification	M.E
	Experience	1 year

- **Career Guidance club**

Faculty Incharge		
1	Name:	BALASUDHA.T
	Designation	Asst.Professor
	Qualification	M.E
	Experience	3 years

- **Entrepreneurship Development Club**

Faculty Incharge		
	Name:	SANTHOSH.E

1	Designation	Asst.Professor
	Qualification	M.E
	Experience	6 years

○ **VAC club**

<b>Faculty Incharge</b>		
1	Name:	DHANABAL.R
	Designation	Asst.Professor
	Qualification	M.E
	Experience	1 Year