



# 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: Electronics and Communication Engineering

#### **1. Vision:**

To develop Electronics and Communication Engineers by impart quality technical education in the young minds for serving the Society and Industry in a globally challenging environment.

#### **2. Mission:**

- To impart quality technical education and training to the students to make them best engineers.
- To prepare the students for working in practical challenges existing in the industries.
- To provide an environment to foster research and innovation.
- To groom the learners to emerge as leaders at different technological platforms.

#### **3. About the Department:**

The Electronics & Communication Engineering has spread its field of influence significantly in all other branches of Engineering. This department is equipped with the state-of-art equipments and has well developed laboratories in the related fields. It is continuously striving to impart knowledge to the students and make them experts in handling and Design of Automated PCD boards, Embedded Controllers, Digital Circuits, Signal Processing and Image Processing. In order to disseminate knowledge, the department organizes numerous short term courses, National level Symposium and conference which enlightens the dream in to reality. Electronics and Communication Engineering is an engineering discipline which uses the scientific knowledge of the behavior and effects of electrons to develop components, devices, systems or equipment that uses electricity as part of its driving force. The department has its own LAN with novel net ware. We train the students across entire spectrum, which goes much beyond curriculum.

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

<b>Laboratory Name</b>
Engineering Practices Laboratory
Circuits and Devices Laboratory
Analog and Digital Circuits Laboratory
Circuit and Simulation Integrated Laboratory
Linear Integrated Circuit Laboratory
Digital Signal Processing Laboratory
Communication System Laboratory
Microprocessor and Microcontroller Laboratory
VLSI Design Laboratory
Embedded Laboratory
Optical and Microwave Laboratory

#### **Equipment details:**

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<b>Equipment Name</b>	<b>Cost</b>
Fiber Optic Trainer Kit	Rs.47,000
Laser Trainer Kit	Rs.45,000
DSP TMS 320C 50 Processor Kit	Rs.22,750
Fiber Optic Power Meter	Rs.30,000
Pin Diode and LED Mounted Source at Wavelength	Rs.27,000

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

<b>Software Name</b>
MATLAB
XILINX
KEIL MICRO VISION

MASAM
8086 ASSEMBLER
8051 CROSS ASEMBLER
EMBEDDED C
MULTISIM

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

<b>VAC Name</b>
Design of Electronic Components & PCB Design
MATLAB Programming
NS2 Programming

<b>Faculty Incharge</b>	
Name	Mr. R.Murugesan
Designation	Assistant Professor
Qualification	M.Tech
Experience	9 Years

**7. Faculty Profile:**

<b>Faculty Profile</b>			
1	Name:	Mr. R.Murugesan	Photo
	Designation	Assistant Professor	
	Qualification	M.Tech	
	Experience	9 Years	
2	Name:	Mr. R.Vinothkumar	Photo
	Designation	Asst. Professor	
	Qualification	M.E.,	
	Experience	3 Years	
3	Name:	Mr. T.Nandhakumar	Photo
	Designation	Asst. Professor	
	Qualification	M.E.,	

	Experience	1 Year	
4	Name:	Mrs. Mageshwari	Photo
	Designation	Asst. Professor	
	Qualification	M.E.,	
	Experience	3 Years	
5	Name:	Mr. Veerabalaji	Photo
	Designation	Asst. Professor	
	Qualification	M.E.,	
	Experience	3 Years	
6	Name:	Ms. M.Premalatha	Photo
	Designation	Asst. Professor	
	Qualification	M.E.,	
	Experience	2 Year	
7	Name:	Mr. M.P.Premkumar	Photo
	Designation	Asst. Professor	
	Qualification	M.E.,	
	Experience	1 Years	
8	Name:	Mr. K.Balakrishnan	Photo
	Designation	Asst. Professor	
	Qualification	M.E.,	
	Experience	2 Years	
9	Name:	Mr. G.Gurumoorthy	Photo
	Designation	Asst. Professor	
	Qualification	M.E.,	
	Experience	5 Years	

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

- PEO 1 Achieve progress in professional and research career through communication skills, team work and knowledge up gradation through higher education.
- PEO 2 To provide students with strong foundational concepts and also advanced techniques and tools in order to enable them to build solutions or systems of varying complexity.

- PEO 3 To prepare students to critically analyze existing literature in an area of specialization and ethically develop innovative and research oriented methodologies to solve the problems identified.
- PEO 4 Identify, analyze and formulate problems to offer appropriate design solutions that are technically superior, economically feasible, environmentally compatible and socially acceptable.

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

Engineering Graduates will be able to:

- **PO 1** 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.
- **PO 2** Attain broad education to provide engineering solution by taking environment and sustainability into consideration.
- **PO 3** Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **PO 4** Engage in lifelong learning through higher studies/additional qualifications to adapt technical changes.
- **PO 5** 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.
- **PO 6** Understand the contemporary technical, professional issues and provide engineering solution for societal problems.
- **PO 7** Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- **PO 8** Design and evaluate complex systems for specific purpose in Electronics and Communication Engineering, with due considerations for economic, environmental, social, political, ethical, health and safety considerations.
- **PO 9** 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.
- **PO 10** Function effectively as individuals and in teams which may involve people from diverse background to accomplish a common goal.
- **PO 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.
- **PO 12** 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.

10. **Placement Coordinator:**

<b>Faculty Profile</b>			
1	Name:	R. Vinothkumar	Photo
	Designation	Assistant Professor	
	Qualification	M.E	
	Experience	3 Years	

11. **Clubs and Activities**

○ **Communication Skill Development club**

<b>Faculty Profile</b>			
1	Name:	R. Vinothkumar	Photo
	Designation	Assistant Professor	
	Qualification	M.E	
	Experience	3 Years	

○ **Career Guidance club**

<b>Faculty Profile</b>			
1	Name:	Mageshwari	Photo
	Designation	Asst. Professor	
	Qualification	M.E.,	
	Experience	3 Years	

○ **Entrepreneurship Development Club**

<b>Faculty Profile</b>			
1	Name:	T.Nandhakumar	Photo
	Designation	Asst. Professor	
	Qualification	M.E.,	
	Experience	1 Year	

○ **VAC club**

<b>Faculty Profile</b>			
1	Name:	Veerabalaji	Photo
	Designation	Asst. Professor	
	Qualification	M.E.,	
	Experience	3 Years	