

SYED AMMAL ENGINEERING COLLEGE

(Approved by the AICTE, New Delhi, Govt. of Tamilnadu and Affiliated to Anna University, Chennai)



NBA Accredited Courses: CSE, ECE, EEE & MECH

Established in 1998 - An ISO 9001:2015 Certified Institution

Dr. E.M.Abdullah Campus, Lanthai, Ramanathapuram – 623 502.

Phone: 04567-222234, 9487304000, 84893 04000, 87548 88877

Web: www.syedengg.ac.in E.mail: saec@syedengg.ac.in



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ELECTRONICS LABORATORY

Laboratory In-charge : Mr. B. Babumohan, Asst. Professor / ECE

Technical Staff : Mr. G. Vijayakumar,



Area of the laboratory: $11.58\text{m} \times 9.14\text{m} = 105.84 \text{ Sq. m}$

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Description:

- Electronics laboratory has been well furnished with Regulated Power Supplies, Function Generators, Cathode Ray Oscilloscopes AND DSOs.
- 18 Work Tables are facilitated in this laboratory
- Each Work Table has proper protecting devices such as fuse and MCB.
- Line Voltage is stabilized by 5 KVA stabilizers.
- The electronics circuits are designed and the results are compared with theoretical values.
- Simulation experiments are executed with PSPICE in ECE Computer Laboratory.
- This laboratory covers all the Electronic Circuits and Devices related laboratory courses prescribed by Anna University.

Major Equipment's Cost of Electronics Lab: Rs.10,81,725

The following courses are conducted in this Laboratory.

S.No	Course Codes	Lab Course Name	Class
1	EC8261	Circuits and Devices	II Sem ECE
2	CS8382	Digital System	III Sem CSE
3	EC8461	EC8461 Circuits Design and Simulation	IV Sem ECE

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

MICROWAVE AND MICROPROCESSOR LABORATORY

Laboratory In-charge :Mr J. Sakubar Sadiq, Associate Professor
Technician :Mr M.Vetrivel



Area of the laboratory: 11.58m×9.14m =105.84 Sq. m

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Description:

- All the experimental kits and components are stored in the shelves and racks
- There are 6 double sided work tables present in this laboratory
- This laboratory covers the Microprocessor and Micro controller related laboratory courses and Optical & Microwave laboratory prescribed by Anna University
- Each work table has proper protecting devices such as fuse and MCB.
- Line Voltage is stabilized by 5 KVA stabilizers.
- The lab consists of Scientific Microwave bench , Optical and Microwave Power meters and Two Single mode fiber kits.

Major Equipment's Cost in Microprocessor and Micro controller lab & Optical & Microwave lab: Rs. 27,37,512

The following courses are conducted in this Laboratory.

S.No	Course Code	Lab Course Name	Class
1	EC8681	Microprocessor and Micro controller	V SemECE
2	EC8681	Microprocessor and Micro controller	V sem CSE
3	EE8681	Microprocessor and Micro controller	VI semEEE
4	EC8761	Advanced Communication	VII sem ECE

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SIGNAL PROCESSING / NETWORKING / VLSI LABORATORY

Laboratory In-charge : Mr S. Praveen Samuel Washburn, Asst Professor
Technician : Mr. N. Sathees Kumar



Area of the laboratory: $13.37\text{m} \times 9.14\text{m} = 122.20 \text{ Sq. m}$

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Description:

- Signal Processing Laboratory has been well furnished with 25 KVA stabilizer and UPS
- There are 75 high configuration systems along with working tables facilitated in this laboratory
- Work tables are having proper protecting devices such as fuse and MCB
- Each system is equipped with executed in ECE Computer Laboratory.
- This laboratory also covers embedded internet connection and IIR work bench for Embedded lab.
- Simulation experiments are system Lab, Computer Networks Lab, VLSI Design Lab, VLSI Laboratory I & VLSI Laboratory II courses prescribed by Anna University.
- Configuration Details: Dell Optiplex 390 DT– N series Base Intel core i3 2100 processor, Intel H-61 chipset motherboard 2GB DDR-3 RAM, 320 GB SATA HDD, Dell Keyboard & optical mouse, Dell 18.5" TFT Monitor free DOS Pre loaded.
- Intel Core 2 Duo @ 2.93 GHz, Intel G41 Chipset Mother Board, 2GB DDR2 @ 800 MHz RAM, 320 GB @ 7200 rpm SATA HDD, Lenovo Keyboard, Lenovo Optical Mouse, Gigabit Ethernet Card, Micro Tower Cabinet, 18.5" TFT Color Monitor
- This lab having Six number of Analog Discovery kits.
- This lab consists of Licensed PSPICE, Xilinx, CADENCE and MATLAB.
- This lab has upgraded as Advanced VLSI laboratory under AICTE MODROBS in the Academic year 18-19.

Major Equipment's Cost in Signal Processing Lab : Rs76,05,337

The following courses are conducted in this Laboratory.

S.No	Course Code	Lab Course Name	Class
1	VL5111	VLSI Laboratory I	I Sem M.E
2	VL5211	VLSI Laboratory II	II Sem M.E
3	EC8562	Digital Signal Processing	V Sem ECE
4	EC8563	Communication Networks	V Sem ECE
5	EC8661	VLSI Design Lab	VI Sem ECE
6	EC8711	Embedded system Lab	VII Sem ECE

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PROJECT LAB

Laboratory In-charge : Mrs. C. Priya. Assistant Professor
Technician : Mr. G. Vijayakumar



Area of the laboratory: 10.10M×9.14M=92.31 Sq. m

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Description:

- This Laboratory contains CRO, DSO for analyzing signals.
- It also contains Soldering facility for the electronic system designs
- This Laboratory was established to encourage the students for doing projects and research works
- All the experimental kits and components are stored in shelves and racks
- There are 9 double sided work tables present in this laboratory.
- This laboratory is covering the Project work and mini Project laboratory courses prescribed by Anna University.
- Each work table is having proper protecting devices such as fuse and MCB.

The following courses are conducted in this Laboratory.

S.NO	Course Code	Course Name	Class
1	-	Mini project	VI SemECE
2	EC8811	Project Work	VIII Sem ECE

Sample Project:

GULLY POT MONITORING AND WASTE MANAGEMENT SYSTEM

ABSTRACT

In the present scenario pollution has a greater impact towards environmental crisis. The major part of the reason behind this is sewer and gully pot leakages, blockages and their improper disposal. In this project a low cost and power efficient system has been designed, developed and implemented to provide adequate warning by monitoring the gully level and in case of any blockage and leakage. This system consists of the gully pot unit which has a transducer, a controller to monitor the gully level. This information is then transmitted to the common collector called as a controller, which collects the similar information from all such gully pot units. This information is then processed and loaded to the server which is in turn viewed by a browser. The sewer line is continuously monitored for toxicity, leakage and blockage by the system till the sewer disposal end. This gully pot monitoring system is more

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reliable, low in cost for implementation and maintenance, power efficient. It provides a safe green environment.



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

COMMUNICATION LABORATORY

Laboratory In-charge
Technician

:Mrs. A. Valanarasi, Associate Professor
:Mrs. M. Uma



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. Description:

- All the experimental kits and components are stored in selves and racks
- There are 9 double sided worktables present in this laboratory.
- This laboratory is covering the Digital, Linear Integrated Circuits, Communication system laboratory courses prescribed by Anna University.
- This lab consists of Communication trainer kits, RF Spectrum Analyser, CRO, AFO, DSO.
- Each work table is having proper protecting devices such as fuse and MCB.

Major Equipment's Cost in Instrumentation & Control Lab: Rs. 22,20,395

The following courses are conducted in this Laboratory.

S.NO	Course Code	Lab Course Name	Class
1	EC8361	Analog and Digital Circuits	III Sem ECE
2	EC8462	Linear Integrated Circuits	IV Sem ECE
	EC8561	Communication Systems	V Sem ECE
3	EE8461	Linear and Digital Integrated Circuits	IV SemEEE