

LABORATORIES

Department is Equipped with the following Laboratories

- **Electronic Devices Lab**
- **Electronic Circuits Analysis Lab**
- **Analog Communications/ Digital Communications Lab**
- **DECS Lab**
- **R & D Lab**
- **Microwave & Optical Communications Lab**
- **LabVIEW**

MAJOR EQUIPMENT IN THE LABORATORIES

S. NO.	NAME OF THE LABORATORY	TOTAL AMOUNT
1	Electronics Devices & Circuits Lab	633889.80
2	IC Applications Lab	759010.00
4	Communications Lab	751554.40
3	Microwave & Optical Communications Lab	373037.00
5	Microprocessors and Interfacing Lab	76232.00
6	Digital Signal Processing Lab & Embedded Systems Lab	263097.95
7	LabVIEW	1498039.22
TOTAL		43,54,860.37

G.PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF ELECTRONICS & COMMUNICATION
ENGINEERING
EDC LAB

S. No.	Name of the Equipment	Qty.
1	Cathode Ray Oscilloscopes (Scientific)	08
2	Function Generators	12
3	Digital Multi Meters	10
4	Digital Voltmeters	29
5	Digital Ammeters	29
6	Decade Resistance Box	10
7	Decade Inductance Box	10
8	Decade Capacitance Box	10
9	Regulated Power Supply (Hi-Q)	13
10	Servo Voltage Stabilizer	01
11	Tina Pro V7 Software	01
12	Cathode Ray Oscilloscopes (micro lab)	02
13	PN Diode Characteristics Trainers	02
14	Zener Diode Characteristics Trainers	02
15	FET Characteristics Trainers	02
16	SCR Characteristics Trainers	02
17	Wein Bridge Oscillator Trainers	02
18	Rheostats	02
19	Cathode Ray Oscilloscopes (scientific)	06
20	Function Generators (Scientific)	06
21	Regulated Power Supplies (Scientific)	06



Lab in-charge : Mr.T.Tirupal

Technician : Mr. Sadak Hussain



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ENGINEERING
AC & DC LAB

S. No.	Name of the Equipment	Qty.
	Analog Communication Trainers	
1	Amplitude Modulation & Demod.	2
2	Diode Detector Characteristics	2
3	Frequency Modulation & Demod.	2
4	Balanced Modulator	2
5	Pre-Emphasis & De- Emphasis	2
6	Characteristics of Mixer	2
7	Digital Phase Detector	2
8	Phased Locked Loop	2
9	SSB System	2
10	Synchronous Detector	2
11	Frequency Synthesizer	2
12	Squelch Circuit	2
13	AGC Characteristics	2
14	AM (Transmitter) Trainer	1
15	AM (Receiver) Trainer	1
16	Antenna Trainer System	1
17	3GHz Spectrum Analyzer	1
	Digital Communication Trainers	
1	Pulse Amplitude Modulation & Demod.	2
2	Pulse Width Mod. & Demod.	2
3	Pulse Position Mod. & Demod.	2
4	Sampling Theorem Verification	2
5	Time Division Multiplexing & Demux.	2

6	Pulse Code Modulation & Demod.	2
7	DPCM Mod. & Demod.	2
8	Delta Modulation & Demod.	2
9	Frequency Shift Keying	2
10	Phase Shift Keying	2
11	DPSK Mod. & Demod. Trainers	2
12	QPSK Trainer	1

S. No.	Name of the Equipment	Qty.
1	Digital Storage Oscilloscopes (DSO)	10
2	Function Generators 3Mhz	10
3	Digital Multi Meters	10
4	Analog Trainers	26
5	Digital Trainers	22
6	Antenna Measurement System	1



Lab in-charge : Mr. D.Rajasekhar
Technician : Mr. D.V.Gopi Krishna



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ENGINEERING
ICA&PDC LAB

S. No.	Name of the Equipment	Qty.
1	Cathode Ray Oscilloscopes (Scientific)	10
2	Function Generators	10
3	Digital Multi Meters	10
4	Component Development System (CDS)	10
5	40 db Attenuation Pads	10
6	Digital IC Tester	01
7	Linear IC Tester	01
8	FPGA Trainers	05
9	CPLD Trainers	05
10	Cathode Ray Oscilloscopes (scientific)	06
11	Function Generators (Scientific)	06
12	Regulated Power Supplies (Scientific)	06
13	Analog System Lab Starter Kit (ALSK)	10



Lab in-charge : Mr. G.Ramarao

Technician : Mr. Sadak Hussain



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ENGINEERING
DSP LAB

S. No.	Name of the Equipment	Qty.
1	DSP Trainer Kits TMS32C6713	10
2	MSP EXP430 G2553 Trainers	10
3	MSP EXP430 F5529LP Trainers	5
4	MSP EXP430 FR 5969 Trainers	5
5	CC3100 Booster Pack	5
6	Personal Computers: Intel Pentium 3.0GHz, Dual Core Processor, 512 MB RAM, 160GB HDD, Combo drive DVD	40



Lab in-charge : Ms. R.Sumalatha

Technician : Ms. N. Sreedevi



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ENGINEERING
MPMC LAB

S. No.	Name of the Equipment	Qty.
1	Microprocessor Trainers (8086)	10
2	Microcontroller Trainers (8051)	05
	Interfacing Modules:	
3	Elevator	02
4	Traffic Lights	02
5	Analog to Digital Converter	02
6	Digital to Analog Converter	02
7	Stepper Motor	02
8	8279 Study Card	02
9	8259 Study Card	02
10	8251/53 Study Card	02



Lab in-charge : Mrs V.Santhi

Technician : Mrs. N.Sreedevi



G.PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY
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MWOC LAB

S. No.	Name of the Equipment	Qty.
1	Klystron Power Supply	4
2	Klystron Mount with Tube	4
3	Isolator	5
4	VSWR Meter	1
5	Frequency Meter (Direct)	2
6	Frequency Meter (Micro)	1
7	Magic Tee	1
8	Directional Coupler (20db)	1
9	Detector Mount	6
10	Tunable Probes	5
11	Variable Attenuators	5
12	Fixed Attenuator (6db)	1
13	GUNN Power Supply	1
14	GUNN Oscillator	1
15	PIN Modulator	1
16	Circulator	1
17	Slotted Section	5
18	Matched Termination	10
19	Wave Guide Stands	14
20	Cooling Fans	6
21	BNC to BNC Cable	4
22	LED Trainer (OFT-2021)	1
23	Analog Fiber Optic Trainer (OFT-2021)	1
24	Digital Fiber Optic Trainer (OFT-2022)	1

25	LASER Trainer (OFT-2023)	1
26	Cathode Ray Oscilloscopes (Micro lab) 20Mhz	02
27	Servo Voltage Stabilizer	01



Lab in-charge : Sri. G.Sreedhar Kumar

Technician : Sri. D.V.Gopi Krishna



