



JANSONS INSTITUTE OF TECHNOLOGY

(Autonomous)

Karumathampatti, Coimbatore – 641 659

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

EC3361 - ELECTRONIC DEVICES AND CIRCUITS LABORATORY

LIST OF EQUIPMENTS

S.No	Equipment Name	Regulation 2021
1.	CRO/DSO (30 MHz)	Sem III
2.	Signal Generators / Function Generators (3 MHz)	Sem III
3.	Dual Regulated Power Supplies (0-30V)	Sem III
4.	Decade Resistance Box	Sem III
5.	Voltmeter (0-30V)	Sem III
6.	Ammeter (0-30mA)	Sem III
7.	Resistors	Sem III
8.	Capacitors	Sem III
9.	Inductors	Sem III
10.	Bread Boards	Sem III
11.	Transistor/MOSFET (BJT-NPN-PNP and NMOS/PMOS)	Sem III
12.	Diodes	Sem III
13.	SPICE Simulator	Sem III
14.	Standalone desktops PC	Sem III

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GE3271 - ENGINEERING PRACTICES LABORATORY

LIST OF EQUIPMENTS

S.No	Equipment Name	Regulation 2021
1.	CRO/DSO (30 MHz)	Sem II
2.	Signal Generators / Function Generators (3 MHz)	Sem II
3.	Multi meter	Sem II
4.	Continuity tester	Sem II
5.	DC Multi-output power supply (0-5V),(0-30V)(+15V,- 5V)	Sem II
6.	Used Laptop	Sem II
7.	Used desktop computer	Sem II
8.	Used LED TV	Sem II
9.	Soldering Iron, Lead	Sem II
10.	Single phase house wiring setup	Sem II
11.	Three phase house wiring setup	Sem II
12.	Auto Transformer	Sem II
13.	Staircase wiring setup	Sem II
14.	Fluorescent lamp wiring setup	Sem II
15.	Emergency lamp wiring setup	Sem II
16.	Iron box wiring setup	Sem II
17.	Emergency lamp wiring setup	Sem II

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CS3362 - C PROGRAMMING AND DATA STRUCTURES LABORATORY

LIST OF EQUIPMENTS

S.No	Equipment Name	Regulation 2021
1.	INTEL based desktop PC with min. 8GB RAM and 500 GB HDD, 17" or higher TFT Monitor, Keyboard and mouse	Sem III
2.	Windows 10 or higher operating system / Linux Ubuntu 20 or higher	Sem III
3.	Standalone desktops PC	Sem III

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EC3462- LINEAR INTEGRATED CIRCUITS LABORATORY

LIST OF EQUIPMENTS

S.No	Equipment Name	Regulation 2021
1.	70MHz DSO and 50 MHz Arbitrary Function Generator/ signal generator	Sem IV
2.	Power Supplies (0 – 30V/3A) (0-30V/3A) (0-5V/3A) (+/-15V)	Sem IV
3.	Digital Multimeter	Sem IV
4.	Digital LCR Meter	Sem IV
5.	Standalone desktops PC	Sem IV
6.	IC Tester	Sem IV
7.	Digital IC Trainer Kit	Sem III


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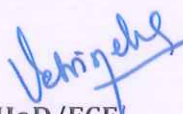
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

EC3271 - CIRCUIT ANALYSIS LABORATORY

LIST OF EQUIPMENTS

S.No	Equipment Name	Regulation 2021
1.	CRO	Sem II
2.	Function Generators	Sem II
3.	Dual Regulated Power Supplies (0-30V)	Sem II
4.	Decade Resistance Box	Sem II
5.	Voltmeter (0-30V)	Sem II
6.	Ammeter (0-30mA)	Sem II


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EC3461 - COMMUNICATION SYSTEMS LABORATORY

LIST OF EQUIPMENTS

S.No	Equipment Name	Regulation 2021
1.	Amplitude modulation & demodulation	Sem IV
2.	Frequency modulation & FSK generation	Sem IV
3.	Balanced modulation	Sem IV
4.	Pre-emphasis & De-emphasis	Sem IV
5.	Phase locked loop & frequency multiplier	Sem IV
6.	Pulse width modulation & demodulation	Sem IV
7.	AM detector & AGC characteristics	Sem IV
8.	FM detector	Sem IV
9.	Pulse amplitude modulation & demodulation	Sem IV
10.	Pulse code modulation & demodulation	Sem IV
11.	Amplitude shift keying modulation & demodulation	Sem IV
12.	Delta modulation & demodulation	Sem IV
13.	Spectrum analyzer 150khz to 1000hz	Sem IV
14.	DSO	Sem IV
15.	Function generator	Sem IV

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EC3561 - VLSI LABORATORY

LIST OF EQUIPMENTS

S.No	Equipment Name	Regulation 2021
1.	Xilinx Spartan 3E FPGA trainer KIT	Sem V
2.	Xilinx System edition Software , Version 13.3 (25 user License)	Sem V
3.	Atlys Spartan 6 FPGA Development Kit	Sem V
4.	Pmod DAC two 12 bit DAC Outputs	Sem V
5.	Pmod AD1 two 12 bit ADC Inputs	Sem V
6.	mod SD-SD Slot Pmod -Microphone HDMI to VGA and Audio converter V mod com with cable HDMI Cable	Sem V
7.	HDMI to VGA and Audio converter	Sem V
8.	Mentor graphics Software package (50 users)	Sem V
9.	Logic analyser (USB PC based)	Sem V
10.	Micro wind 3.5 software(5 user)	Sem V
11.	70MHz DSO and 50 MHz Arbitrary Function Generator/ signal generator	Sem V
12.	Power Supplies (0 – 30V/3A)(0-30V/3A)(0-5V/3A) (+/-15V)	Sem V
13.	Personal Computer	Sem V

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ME - VLSI DESIGN AND EMBEDDED SYSTEMS

P24VE2106 - EMBEDDED SYSTEMS LABORATORY

LIST OF EQUIPMENTS

S.No	Equipment Name	Regulation 2024
1.	Microcontrollers which supports IoT applications and corresponding programming software	Sem I
2.	RTOS software	Sem I
3.	PCs	Sem I

P24VE2205 - ANALOG IC DESIGN LABORATORY

LIST OF EQUIPMENTS

S.No	Equipment Name	Regulation 2024
1.	Spice simulator tool	Sem I
2.	PCs	Sem I

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ME - VLSI DESIGN AND EMBEDDED SYSTEMS

P24VE2104 - DIGITAL CMOS VLSI DESIGN LABORATORY

LIST OF EQUIPMENTS

S.No	Equipment Name	Regulation 2024
1.	FPGA Simulator Tool	Sem I
2.	FPGA Trainer Board	Sem I
3.	PCs	Sem I

P24VE2206 - EMBEDDED AUTOMATION LABORATORY

LIST OF EQUIPMENTS

S.No	Equipment Name	Regulation 2024
1.	8051 Microcontrollers	Sem II
2.	Desktop Computers	Sem II
3.	Embedded C Software	Sem II

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