

Faculty of Information and Communication Engineering
B.E. Electronics and Communication Engineering
(R 2021) Semester – II

Course Code: EC3271 Course Title: CIRCUIT ANALYSIS LABORATORY		
Sl. No.	Description of Equipment	Required numbers (for batch of 30 students)
1.	Resistors, Capacitors, Inductors – sufficient quantities. Bread Boards	15 Nos.
2.	CRO (30MHz)	10 Nos.
3.	Function Generators (3MHz)	10 Nos.
4.	Dual Regulated Power Supplies (0 – 30V)	10 Nos.
5.	Decade Resistance Box	10 Nos.
6.	Voltmeter(0-30v)	30 Nos.
7.	Ammeter(0-30mA)	30 Nos.

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(R 2021) Semester – III

EC3361 Electronic Devices and Circuits Laboratory

Sl. No.	Description of Equipment	Required numbers (for batch of 30 students)
1.	CRO/DSO (30 MHz)	15 Nos
2.	Signal Generators / Function Generators (3 MHz)	15 Nos
3.	Dual Regulated Power Supplies (0-30 v)	15 Nos
4.	Bread Boards	15 Nos
5.	BC107, BC547, BF195C, BFW10, IN4001, IN4007	25 Nos
6.	SPICE Simulator	15 Users
7.	Standalone desktops PC	15 Nos

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(R 2021) Semester – III

CS3362 C Programming and Data Structures Laboratory

Sl. No.	Description of Equipment	Required numbers (for batch of 30 students)
1.	INTEL based desktop PC with min. 8GB RAM and 500 GB HDD, 17" or higher TFT Monitor, Keyboard and mouse	30
2.	Windows 10 or higher operating system / Linux Ubuntu 20 or higher	30
3.	Standalone desktops PC	15 Nos

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(R 2021) Semester – IV

EC3461 Communication Systems Laboratory

Sl. No.	Description of Equipment	Required numbers (for batch of 30 students)
1.	Trainer Kits for AM, FM, Signal Sampling, TDM, PCM, PAM, PPM, PWM, DM and Line Coding Schemes	Each 2 Nos.
2.	Trainer Kits for ASK, FSK and PSK	Each 2 Nos.
3.	CRO/DSO (30 MHz)	15 Nos
4.	Signal Generators / Function Generators (3 MHz)	15 Nos
5.	MATLAB or equivalent open source software package for simulation Experiments.	15 Users
6.	Standalone desktops PC	15 Nos

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(R 2021) Semester – IV

EC3462 Linear Integrated Circuits Laboratory

Sl. No.	Description of Equipment	Required numbers (for batch of 30 students)
1.	70MHz DSO and 50 MHz Arbitrary Function Generator/ signal generator	15 Nos
2.	Power Supplies (0 – 30V/3A)(0-30V/3A)(0-5V/3A) (+/-15V)	15 Nos
3.	Digital Multimeter	15 Nos
4.	Digital LCR Meter	2 Nos
5.	Bread Boards	15 Nos
6.	Resistors, Capacitors, Inductors	sufficient quantities
7.	IC741, IC565, AD620	Each 15 Nos
8.	Standalone desktops PC	15 Nos
9.	Transistor/MOSFET (BJT-NPN-PNP and NMOS/PMOS)	50 Nos
10.	IC Tester	5 Nos

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(R 2021) Semester – V

EC3561 VLSI Laboratory

Sl. No.	Description of Equipment	Required numbers (for batch of 30 students)
1.	Xilinx ISE/Altera Quartus/ equivalent EDA Tools	15 User License
2.	Xilinx/Altera/equivalent FPGA Boards	15 nos
3.	Personal Computer	15 nos
4.	Cadence/ Mentor Graphics/Open Source equivalent CAD VLSI design tool	5 users
5.	70MHz DSO and 50 MHz Arbitrary Function Generator/ signal generator	15 Nos
6.	Power Supplies (0 – 30V/3A)(0-30V/3A)(0-5V/3A) (+/-15V)	15 Nos
7.	70MHz DSO and 50 MHz Arbitrary Function Generator/ signal generator	15 Nos