

FACULTY OF INFORMATION AND COMMUNICATION ENGINEERING**M.E. APPLIED ELECTRONICS (R 2021)****SEMESTER – I**

Course Code: AP4111		Course Title: Electronics System Design Laboratory
Sl. No.	Description of Equipment	Required numbers (for batch of 25 students)
1.	Op Amp	As per requirement
2.	Consumables - Resistors & Capacitors	As per requirement
3.	Ammeter – (0 to 10 mA)	25 nos
4.	Diode	As per requirement
5.	SCR	
6.	PCB design software	14 users (licensed/open source)
7.	FPGA simulator tool	14 users (licensed/open source)
8.	FPGA Trainer Board	14 users(licensed/open source)
9.	Xilinx Vivado Design Suite 2014.2 Software or Equivalent	14 users license (licensed/open source)
10.	Regulated Power Supply (0-30V)	10 nos.
11.	Spectrum Analyzer Frequency: 1.5 GHz	1 no.
12.	Digital Storage Oscilloscope	5 nos
13.	Function Generator	5 nos
14.	PCs	14 Nos.

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SEMESTER – I

Course Code: AP4112 Course Title: Signal Processing Laboratory		
Sl. No.	Description of Equipment	Required numbers (for batch of 25 students)
1.	Systems	14 systems
2.	Software required:	
	MATLAB/SCILAB software	14 users (licensed/open source)
	Anaconda Python software/ Equivalent open source simulator tool	10 users
3.	DSP processor and interfacing tool	14 nos.
4.	PCs	14 Nos.

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M.E. APPLIED ELECTRONICS (R 2021)

SEMESTER – II

Course Code: AP4211 Course Title: VLSI Design Laboratory		
Sl. No.	Description of Equipment	Required numbers (for batch of 25 students)
1.	PC with windows 8 or above	25
2.	Xilinx ISE/Altera Quartus/ equivalent EDA Tools along with Xilinx/Altera/equivalent FPGA Boards	Minimum 10 users license
3.	Cadence/Synopsis/ Mentor Graphics/Tanner/equivalent EDA Tools	Minimum 10 users license