

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

Course Code: EL4161 Course Title: Digital Communication Systems Laboratory		
Sl. No.	Description of Equipment	Required numbers (for batch of 25 students)
1.	Software Defined Radio Device (USRP/WarpLab/WicommT or Equivalent) with antenna	2 Nos.
2.	PC loaded with MATLAB/LABVIEW/GNU RADIO or Equivalent	14 users (licensed/open source)

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Course Code: EL4111 Course Title: Embedded System Design Laboratory		
Sl. No.	Description of Equipment	Required numbers (for batch of 25 students)
1.	ARM core based Embedded processors (Philips/ STM series) or Equivalent	14 users (licensed/open source)
2.	Basic interfacing peripherals like sensors (temperature, soil moisture, rain, pressure, humidity, gas, ultrasonic, IR, flexi), actuators (DC motor, Stepper motor and Servo motor, buzzer), and displays (LEDs, LCD, OLED, HDMI)	10 each
3.	Freeware RTOS with basic educational version	NA
4.	Any one SoC architecture based embedded processor (Zynq/ Pynq processor) with ARM core or Equivalent	5
5.	Embedded processor with Edge AI capability (STM series) or Equivalent	5

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SEMESTER – II

Course Code: EL4211 Course Title: FPGA Based System Design Laboratory		
Sl. No.	Description of Equipment	Required numbers (for batch of 25 students)
1.	Desktop Computers	25 nos