MICROCONTROLLER PROGRAMMING
(SKILL ORIENTED COURSE-II)

Course Code: 22EC11S4

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Course Outcomes: At the end of the course the student will be able to

CO1: Understand the concepts of GPIO pins.(L2)

CO2: Illustrate the generation of various forms(L3)

CO3: Analyze different sensors and Display.(L4)

CO4: Analyze Serial monitor, Motor interfacing (L3)

CO5: Demonstrate Keypad and advanced peripherals.(L3)

List of Experiments:

1. LED blinking
2. Interface Push Button, Slide switch
3. Generate PWM output
4. Interface Relay
5. Interface Potentiometer
6. Generate Sine Wave
7. Interface 7 segment display
8. Interface LCD
9. Interface Temperature Sensor
10. Interface Serial monitor
11. Interface DC motor with H bridge
12. Interface 4 x4 Keypad
13. Bluetooth pairing

Design Experiments:

14. Interface virtual LED, Buttons with Blynk app
15. Read key press value with Bluetooth.
16. 3-Bit Binary calculator

Note: Any **TWELVE** of the experiments are to be conducted.

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