



Course wise Teaching Plan for Session : Summer 2019

Course : MICROCONTROLLER AND APPLICATIONS

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| Unit | Topic Code | Topic Covered | Date | Course | Section |
|-------------|-------------------|---|-------------|---------------|----------------|
| 1 | 1 | Importance of microcontroller in Embedded System and introduction to keil software | 07/12/2018 | BCEP301 | B |
| 2 | 2 | 1. Write a program to add two 16-bit numbers. 2. Write a program to convert temperature in degree Celsius to degree Fahrenheit and vice versa. 3. Write a program that finds the number of zeros and ones in an 8-bit data item. 4. Write an assembly language using lookup table, using the DPTR as the b | 21/12/2018 | BCEP301 | B |
| 3 | 3 | 5. Write a program using lookup table, using the PC as the base that finds the cube of the number in A. 6. Write a program to add 'n' 8 bit numbers found in internal RAM locations 40H onwards & store the result in R6 (LSB) & R7 (MSB). 7. Write a program to divide (and multiply) the no. in RAM locat | 28/12/2018 | BCEP301 | B |
| 4 | 4 | 9. Write a program to clear 16 RAM locations starting at RAM address 60 H 10. Write a program for overlapping memory block transfer 11. Write a program for non-overlapping memory block transfer | 04/01/2019 | BCEP301 | B |
| 5 | 5 | 12. Parallel port interacting of LEDS A. All Flashing, B. Alternate Flashing C. Rolling left D. Rolling right 13. LED Interfacing with 8051. generate delay using timer 14. To interface serial port with 8051 | 18/01/2019 | BCEP301 | B |
| 6 | 6 | 15. Interfacing of LCD to 8051 (4 / 8 bit modes) 16. Waveform Generation using DAC A. Square wave B. Triangular C. Sine wave D. Stair case | 01/02/2019 | BCEP301 | B |
| 7 | 7 | 17. Interfacing of keypad with 8051 18. Interfacing of keypad and LCD with 8051 and display key pressed on LCD | 08/02/2019 | BCEP301 | B |



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| 8 | 8 | 19. Interfacing of Stepper motor to 8051 20. Flashing LED connected on port 1 using timer interrupt | 15/02/2019 | BECP301 | B |
| 9 | 9 | 21. Write a program in assembly language to interface serial port with 8051. Use serial interrupt 22. Flashing LED connected on port 1 using external interrupt | 22/02/2019 | BECP301 | B |
| 10 | 10 | 23. Write a program for interfacing LED with PIC 24. Write a program for interfacing button, LED, relay & buzzer as follows A. On pressing button1 relay and buzzer is turned ON and LED's start chasing from left to right B. On pressing button2 relay and buzzer | 23/02/2019 | BECP301 | B |
| 11 | 11 | 25 Write a program for interfacing LCD with PIC | 01/03/2019 | BECP301 | B |