



**Course wise Teaching Plan for Session : Summer 2019**

**Course : MICROCONTROLLER AND APPLICATIONS**

**Faculty : kavita.joshi@raisoni.net - KAVITA VILASRAO JOSHI**

| <b>Unit</b> | <b>Topic Code</b> | <b>Topic Covered</b>  | <b>Date</b> | <b>Course</b> | <b>Section</b> |
|-------------|-------------------|---|-------------|---------------|----------------|
| 1           | 1                 | Importance of microcontroller in Embedded System and introduction to keil software  | 05/12/2018  | BCEP301       | B              |
| 2           | 2                 | 1. Write a program to add two 16-bit numbers.<br>2. Write a program to convert temperature in degree Celsius to degree Fahrenheit and vice versa.<br>3. Write a program that finds the number of zeros and ones in an 8-bit data item.<br>4. Write an assembly language using lookup table, using the DPTR as the b | 19/12/2018  | 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.<br>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).<br>7. Write a program to divide (and multiply) the no. in RAM locat   | 26/12/2018  | BCEP301       | B              |
| 4           | 4                 | 9. Write a program to clear 16 RAM locations starting at RAM address 60 H<br>10. Write a program for overlapping memory block transfer<br>11. Write a program for non-overlapping memory block transfer   | 02/01/2019  | BCEP301       | B              |
| 5           | 5                 | 12. Parallel port interacting of LEDS<br>A. All Flashing,<br>B. Alternate Flashing<br>C. Rolling left<br>D. Rolling right<br>13. LED Interfacing with 8051. generate delay using timer<br>14. To interface serial port with 8051  | 09/01/2019  | BCEP301       | B              |
| 6           | 6                 | 15. Interfacing of LCD to 8051 (4 / 8 bit modes)<br>16. Waveform Generation using DAC<br>A. Square wave<br>B. Triangular<br>C. Sine wave<br>D. Stair case   | 16/01/2019  | BCEP301       | B              |
| 7           | 7                 | 17. Interfacing of keypad with 8051<br>18. Interfacing of keypad and LCD with 8051 and display key pressed on LCD   | 30/01/2019  | BCEP301       | B              |



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|-------------|-------------------|--|-------------|---------------|----------------|
| 8           | 8                 | 19. Interfacing of Stepper motor to 8051<br>20. Flashing LED connected on port 1 using timer interrupt   | 06/02/2019  | BECP301       | B              |
| 10          | 10                | 23. Write a program for interfacing LED with PIC<br>24. Write a program for interfacing button, LED, relay & buzzer as follows<br>A. On pressing button1 relay and buzzer is turned ON and LED's start chasing from left to right<br>B. On pressing button2 relay and buzzer | 27/02/2019  | BECP301       | B              |
| 11          | 11                | 25 Write a program for interfacing LCD with PIC  | 06/03/2019  | BECP301       | B              |
| 9           | 9                 | 21. Write a program in assembly language to interface serial port with 8051. Use serial interrupt<br>22. Flashing LED connected on port 1 using external interrupt   | 13/03/2019  | BECP301       | B              |