**Lesson Plan**

Name of faculty : Sita Devi

Discipline : Electrical Engineering

Semester : 6th

Subject : Microcontroller application lab (ET-316-E)

Lesson plan duration : 15 weeks

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| **Week** | **Practical** |
|  | **Practical** **Day** |  **Topics** |
| 1st |  1 | Copy a byte from TCON to a register R2 using at least four different methods |
| 2nd |  2 | Store the no. 8DH in RAM 30H to 34H |
| 3rd |  3 | Add the unsigned no. found in internal RAM locations 25H, 26H and 27H together and put the result in RAM locations 31H(MSB) and 30H(LSB) |
| 4th | 4 | Write a program to subtract 2-data bytes indicating by string i.e. subtract a string of 8-bit data indicating by R1 from a string of data indicating by Ro. The number of data is indicating by R2 |
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| 5th | 5 | The no. A6H is placed some were in external RAM between location 0100H and 0200H. Find the address of that location and put that address in R6 (LSB) and R5 (MSB). Find the address of the first two internal RAM locations between 0H and 60H, which contain consecutive numbers. If so, set the carry flag to 1, else clear the flag  |
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| 6th | 6 | W.A.P. to find minimum value of date in memory block 9000 to 90FF and store the result in 9100H  |
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| **7th** | **1st minor test** |
|  8th  | 7 | W.A.P.to arrange the given ten numbers in ascending order |
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| 9th | 8 | W.A.P. to generate BCD up counter and send each count to port A  |
| 10th | 9 | An assembly language program to find the smaller of two numbers |
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| 11th | 10 | An assembly language program to find the smallest number in any array of ten numbers |
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| 12th | 11 | An assembly language program to find whether the given number is even or odd |
| 13th | 12 | An assembly language program to perform 16- bit division  |
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| **14th** |  **2nd minor test** |
| 15th | 13 | An assembly language program to input five numbers. Calculate their sum & display the result |

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Guest Faculty in Electrical Engg.

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| Week | PracticalDay |  Topic |
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| 6th | 6 | W.A.P.to find minimum value of date in memory block 9000 to 90FF and store the result in 9100H. |
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| **7th** |  **1st minor test** |
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| 8th | 7 | W.A.P.to arrange the given ten numbers in ascending order |
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| 9th | 8 | W.A.P. to generate BCD up counter and send each count to port A  |
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| 10th | 9 | Multiply the unsigned number in register R3 by the unsigned number on port 2 and put the result in external RAM locations 10H(MSB) &11H(LSB) |
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| 11th | 10 | An assembly language program to find the smaller of two numbers |
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| 12th | 11 | An assembly language program to find the smallest number in an array of ten numbers. |
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| 13th | 12 | An assembly language program to find whether the given number in even or odd. |
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