



Government Girls' Polytechnic, Bilaspur

Name of the Lab: **Digital Electronics Lab**

Practical: **Microprocessor 8085 Lab**

Class : **5th Semester (ET&T) , 5th Semester (CSE)**
FOR ET&T

Teachers Assessment: 10 End Semester Examination: 30

FOR CS

Teachers Assessment: 20 End Semester Examination: 50

List of **Experiments**

1. Study of architecture of microprocessor 8085.
Assembly Language Programming.
2. Addition of two 8-bit numbers.
3. Addition of two 16- bit numbers.
4. Subtraction of two 8- bit numbers.
5. Subtraction of two 16 – bit numbers.
6. Multiplication of two 8- bit numbers using repeated Addition.
7. Division of two 8- bit numbers.
8. Find 1's & 2's complement of a 8 – bit & a 16 –bit number.
9. Find larger number between two 8 bit numbers.
10. Find largest and smallest number from an array.
11. Transfer block of data bytes from one memory location to another in same order and in reverse order.
12. Arrange data bytes in ascending / descending order.
13. Find the sum of positive number from an array & store the result at some memory location (Ignore negative number).
14. Inter facing experiments of IC 8255.
15. Inter facing experiments of IC 8155.
16. Inter facing experiments of IC 8279.
17. Inter facing experiments of IC 8257.
18. Microprocessor based stepper Motor control.
19. Microprocessor based Temperature control.