Faculty of Engineering

**Department of Electronics and Communication Engineering**

**Tutorial No. - 2**

**Course Name: DEMC Tutorial number:2**

**Course Code: ECH308-T Class / Semester: CSE,5th Max. Marks : 5**

***CO1: A thorough understanding of the fundamental concepts and techniques used in Digital Electronics and Microcontrollers.***

***CO2.Convert the different type of codes and number systems which are used in digital communication and computer systems.***

***Blooms Taxonomy Level****: BT1, BT3*

1. Express the following in signed binary system :
2. +8
3. -8
4. 165
5. -165
6. Find the 2’s complement of the following:
7. 0001 1111
8. 1110 0101
9. 1111 0111
10. Express the numbers -127 and -100 in 8-bits
11. Sign magnitude
12. 1’s complement
13. 2’s complement
14. Express the following decimal numbers in 8421 BCD code:
15. 90
16. 115
17. 410
18. Perform BCD addition
19. 589 + 199 (2) 175 + 326

HOD-ECE Course Co-ordinator