

# **BHAGWAN MAHAVIR COLLEGE OF ENGG. & TECH. SURAT**

**ELECTRONICS DEPARTMENT  
ACADEMIC YEAR 2015-16  
B.E. 2<sup>nd</sup> SEMESTER**

**SUBJECT: BASIC ELECTRONICS  
SUBJECT CODE: 2110016**

## **ASSIGNMENT: 3**

1	Write about ideal operational amplifier with necessary circuit diagram and equations.
2	Why differential amplifier is necessary?
3	Classify network topologies and draw each one of them.
4	Draw and explain microprocessor system architecture.
5	Draw block diagram of Pulse code Modulation.
6	Explain in brief cellular concept in mobile radio system.
7	State the need of modulation and what are the other advantages of modulation in communication system?
8	Define the following terms: (a) Reflection (b) Directivity (c) Isotropic Radiator
9	Explain digital control system with necessary block diagrams.
10	Explain in brief cellular concept in mobile radio system.

**Date Of Completion :19/4/2017**