

Government Engineering College, Dahod (018)
Computer Engineering Department (07)
Semester: 2nd
Tutorial List
Basic Electronics (2110016)

TUTORIAL-4

- Q.1 Define Signal , Give their Classification
- Q.2 Explain : Boolean Laws.
- Q.3 State and explain De-Morgan's Theorem.
- Q.4 Why NAND and NOR gates are called universal Gates and derive each gates using universal gates.
- Q.5 Represent the equation on K-MAP
- $$Y = \overline{A}\overline{B}\overline{C} + A\overline{B}\overline{C} + A\overline{B}C + \overline{A}BC + \overline{A}BC$$
- Q.6 Minimize the Boolean expression using K-MAP and Realize it using basic gates :
- Q.7 Write about : Binary Adders
- Q.8 What is Flip-Flop and explain Master-Slave.
- Q.9 What is 1) Multiplexer 2) Demultiplexer 3) Encoder 4) Decoder
- Q.10 what is network and give their classification.
- Q.11 what is Topology and classify it.
- Q.12 Write brief about the classification of transmission media.