

# Digital Logic Design

## Lab Manual 5:

### Implementation of Basic Gates by using Universal Gates

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**Aim:**

To design digital circuits using only universal gates.

**Introduction:**

1. Universal gates include both the concept of AND/OR gates.
2. Finding circuits with the universal gates AND gate OR gate or NOT gate with the help of Universal Gates only.
3. Realizing digital gates using universal gate which are universal gate.

**Universal Gates: Definition**

When **AND** or **OR** gate combination only.

**AND gate using OR gate**

Realizing gate as the combination for design implementing two gates AND, OR, realized as implementation of three basic gates. The NAND and NOR gate are universal gates for getting electrically equivalent circuit. Inverters and three gates are universal and convert to inverters and not the basic gates used in all the digital logic families.

**NAND Gate**

The output gate represents the complement of the AND operation. It is used in an efficient circuit of logic gates. The operation realized that the output gate consists of an AND gate with a inverter for the output denoting that a complement operation is performed on the output value of the gate.

It can be made with the proper use of AND/OR gates to determine the operation.



Figure 1: Logic Symbol of NAND Gate

# Lab Manual For Logic Gates

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