



## Government Girls' Polytechnic, Bilaspur

Name of the Lab: Digital Electronics Lab

Practical: Digital Electronics Lab

Class :3<sup>rd</sup> Semester (ET&T), 3<sup>rd</sup> Semester (CS)  
FOR ET&T

Teachers Assessment: 10 End Semester Examination: 50

FOR CS

Teachers Assessment: 20 End Semester Examination: 50

### EXPERIMENT No- 1

**OBJECTIVE:** - Verify Truth Table of Logic Gates (AND, OR, NOT, NAND & NOR Gates).

**EQUIPMENT REQUIRED:** - All the basic gate mention in the fig.

**THEORY:** - There are different gates available in digital electronic filed. Which is used to perform the different tasks they are as follow:-

**AND GATE:** - This gate is used for the multiplication of two binary digits.

**OR GATE:** - This gate is used for the addition of two binary digits.

**NOT GATE:** - This gate gives the compliment of given binary digit.

**NAND GATE:** - This gate is used for giving compliment of multiplication of two binary digits.

**NOR GATE:** - This gate is used for giving compliment of the addition of two binary digits

### DAIGRAMS:-

2-input AND gate



A	B	Output
0	0	0
0	1	0
1	0	0
1	1	1

1-input NOT gate

2-input OR gate



A	B	Output
0	0	0
0	1	1
1	0	1
1	1	1

2-input NAND gate

# Polytechnic Electronics Lab Manual

**Sebastian Brünink**



## **Polytechnic Electronics Lab Manual:**

## Unveiling the Magic of Words: A Report on "**Polytechnic Electronics Lab Manual**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Polytechnic Electronics Lab Manual**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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