# TATYASAHEB KORE INSTITUTE OF ENGINEERING AND TECHNOLOGY WARANANAGAR- 416 113

Department of Computer Science & Engineering Academic Year (2020-21)



# A

**Mini Project Synopsis On**

"**IMPLEMENTATION OF LOGIC GATES AND CONVERSION SYSTEM**”

**Submitted By,** Group ID:

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Under the Guidance of, Guide Name: -

# Introduction

# In this mini project we are going to learn about logic gates and also going to understand the conversion system working, etc.

# The logical gates are the switches that turn ON or OFF depending on what the user is doing. They are also considered as the building blocks for how computer works, Here we are going to take a look over variety in logic gates.

# We probably already know what are number conversion system is – ever here of binary number or hexadecimal numbers? Simply put, a number system is a way to represent numbers. We are used to using the base -10 number system which is also called decimal. Other common number conversion system include base -16 i.e. [hexadecimal], base -8 [octal], and base -2[binary],etc…

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# Problem Statement

# The purpose of the project is to build a program to reduce the manual work to convert one number System to another one. It’s simply Get input in One No. system and Give output in Which we want to print it. this project is beneficial to understand computer language .We normally type letters or words through keyboard of the computer, but computer does not understand the words and letters. Rather, those words and letters are translated into binary numbers.

# Logic gates

# We display output of AND, OR, NOT, NOR, NAND Truth table according to users Need. Logic gate play very important Role in microprocessor, electronic and electrical project circuit.

# Requirement Analysis A] Software Requirement:

* 1. Windows OS.
  2. Language- C.
  3. Dev Cpp or code block. (With Graphics.h library)

# Hardware Requirement:

* 1. Personal Computer.

# Methodology to Solve the Problem

# Input:

# Input which operation do you want to perform, Either you want information of Gates or you want to perform Number conversion is input.

# Output:

When person want information about gates or want to do conversion then you can get

displayed on page.

# Algorithm

1. Enter whether you want information about gates or you want to do conversion.
2. If you want information about Gates you get the information in detail.
3. If you want to do conversion then we ask which conversion you wanted to do?
4. After knowing the information we ask the number you want to convert, and then it do suitable conversion and display that number after conversion on screen.
5. End.

# Data Structure

CONVERSION OF NUMBER

INFORMATION OF GATES

ENTER WHAT OPERATION YOU WANT TO DO EITHER YOU WANTED INFORMATION OF GATES OR YOU WANT TO DO CONVERSION.

START

SWITCH CASE

END

DISPLAY THE INFORMATION OF GATES

DISPLAY THE NUMBER AFTER CONVERSION.

SELECT THE CONVERSION YOU WANTED TO DO AND ALSO ENT- ER THE NUMBER TO CONVERT.

SELECT THE GATE TO KNOW INFORMATION OF GATE

1. **References**
   1. Simplified Electronics. (Dr.V.G.Shelake)
   2. [www.tutorialpoint.com](http://www.tutorialpoint.com)
   3. [www.elprocus.com](http://www.snapfitness.com/)

# Mrs. B. A. Chougale.

# (Project Guide)

**Signature and recommendation by Prof. A. G. Patil Synopsis Approval Committee (HOD CSE Department)**