

# **GUIDE TO DISCRETE MATHEMATICS**

- This android application “Discrete Mathematics” is an app which can help you to study your discrete mathematics course more easily and it is an informative application.

Firstly, clicking the ‘**CONTENTS**’ button, you will get the list of the chapters of your Discrete Mathematics course.

## **Chapter List:**

### ➤ **Propositional Logic**

- 1) Logical Operators
- 2) Truth Tables
- 3) Propositional Laws
- 4) Rules of Inference

### ➤ **Set**

### ➤ **Function**

- 1) Domain and Co-domain
- 2) One-to-one Function

3) Increasing and Decreasing Function

4) Onto Function

5) Inverse Function

## ➤ **Number Theory**

1) Complexity of Algorithm

2) The Integers and Division

3) Primes

4) GCD (Greatest Common Divisor)

5) LCM (Least Common Multiple)

6) n-th Fibonacci Sequence

## ➤ **Counting**

1) The Sum Rule

2) The Product Rule

3) Pigeon Hole Principle

4) Permutation

5) Combination

## ➤ **Graph**

1) Graph Terminology

2) Different types of Graphs

3) Generating Graphs