

## Faculty of Computers and Information Technology

### Logic Design

#### **Information :**

**Course Code :** CSC122

**Level :** Undergraduate

**Course Hours :** 3.00- Hours

**Department :** Faculty of Computers and Information Technology

#### **Description :**

The course provides the fundamentals of logic, including design, verification, application, programmable logic arrays and memories. In addition, the various logical structures and families are discussed in detail. Topics covered in this course are basic logic gates, boolean functions, simplification using boolean algebra, boolean function, simplification using K-Maps, combinational circuit design, adders, subtracts, multiplication, division circuits, multiplexer, de-multiplexer, encoders, and decoders. Hands-on experience is provided through a series of exercises, assignments, and projects