### Course Aim
To develop a detailed theoretical understanding of the characteristics, behaviour and operation of digital devices and systems and to acquire basic skills in the design and testing of digital electronics circuits.

### Short Title
Digital Devices and Systems

### Faculty
EDICT

### Credits
15

### Pre-requisites
EN6000 (ENB5000) and EN6010 (ENB5010)

### Co-requisites
None

### Anti-requisites
None

### Learning Outcomes
On successful completion of this course, students will be able to:

1. Demonstrate detailed knowledge in the application of Boolean Algebra to simplify logic circuits.
2. Apply detailed knowledge and basic skills in the design methodology used to solve combinational logic problems.
3. Apply detailed knowledge and basic skills in the design methodology used to design sequential logic circuits.
4. Demonstrate detailed knowledge in identifying elements of a hardware description language.

### Version
4

### Effective From
September 1, 2018

### NQF Level
6

### Self-directed hrs
60

### Other directed hrs
0

### Total learning hrs
150

### NQF Sub-strand
Theoretical Understanding
Practical Application of knowledge
Practical Application of knowledge