EN6020

Digital Devices and Systems



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		Version	4
Faculty	EDICT	Effective From	September 1, 2018
		NQF Level	6
Credits	15	Student Contact hrs	90
Pre-requisites	EN6000 (ENB5000) and EN6010 (ENB5010)	Self-directed hrs	60
Co-requisites	None	Other directed hrs	0
Anti-requisites	None	Total learning hrs	150

Learning	On successful completion of this course, students will be able to:	NQF Sub-strand
Outcomes	1 Demonstrate detailed knowledge in the application of Boolean Algebra to simplify logic circuits.	Theoretical Understanding
	 2 Apply detailed knowledge and basic skills in the design methodology used to solve combinational logic problems. 	Practical Application of knowledge
	3 Apply detailed knowledge and basic skills in the design methodology used to design sequential logic circuits.	Practical Application of knowledge
	4 Demonstrate detailed knowledge in identifying elements of a hardware description language.	Practical Application of knowledge