

**APPROVED**

## EN6020: Digital Devices and Systems

### Course Details

Course Code:	EN6020
Course Title:	Digital Devices and Systems <b>APPROVED</b>
Short Title:	
Course Level::	Level 6
Valid From::	2018/2019 Sem 1
Credits::	15
Owner:	Engineering Technology
Assessment Method:	Achievement
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.

CLO	
On Completion of this course, the learner will be able to	
#	Learning Outcome Description
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.
Requisites	
<ul style="list-style-type: none"> <li>Pre Requisite: EN6000 (ENB5000) and EN6010 (ENB5010)</li> </ul>	

<b>Examinations</b>
<b>Assessment Type</b> Examination (Unseen)
No Other Controlled Assessments
<b>Uncontrolled Assessments</b>
<b>Assessment Type</b> Practical Project
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Affiliated Entities			
Entity Code	Entity Title	Entity Version	Entity Type
ENT6040	Diploma in Engineering Technology (Electrical)	2	Programme
ENT6050	Diploma in Engineering Technology (Electromechanical)	1	Programme
ENT6060	Diploma of Engineering Technology (Communications and Networks)	1	Programme
ENT7031	Associate Degree in Engineering Technology (Electronics)	2	Programme
ENT7040	Associate Degree in Engineering Technology (Electrical)	1	Programme
ENT7050	Associate degree in Engineering Technology (Electromechanical)	1	Programme
ENT7060	Associate Degree in Engineering Technology (Communications and Networks)	1	Programme
ENT8031	Bachelor of Engineering Technology (Electronics)	4	Programme
ENT8040	Bachelor of Engineering Technology (Electrical)	2	Programme
ENT8050	Bachelor of Engineering Technology (Electromechanical)	2	Programme
ENT8060	Bachelor of Engineering Technology (Communications and Networks)	2	Programme
No Code Yet	Copy Of Associate Degree in Engineering Technology (Communications and Networks)	1	Programme
No Code Yet	Copy Of Diploma in Engineering Technology (Electrical)	1	Programme