

**APPROVED**

## EN6010: Engineering Computing Fundamentals

### Course Details

Course Code:	EN6010		
Course Title:	Engineering Computing Fundamentals	APPROVED	
Short Title:	CompFundamentals		
Course Level::	Level 6		
Valid From::	2022/2023 Sem 1		
Credits::	15		
Owner:	Engineering Technology		
Assessment Method:	Achievement		
Course Aim	To give students an introduction to structured and symbolic programming techniques, using the MatLab and LabVIEW development environments as they relate to engineering applications.		

CLO	
On Completion of this course, the learner will be able to	
#	Learning Outcome Description
1	Create a MatLab program utilizing arrays, conditional statements, iteration and graphs.
2	Design and document a LabVIEW program using basic concepts of engineering analysis.
3	Work in groups and produce computational programs within engineering context.
Requisites	
No requisites	

No Examinations
<b>Other Controlled Assessments</b>
<b>Assessment Type</b> Lab Assignment
<b>Assessment Type</b> Lab Assignment
<b>Uncontrolled Assessments</b>
<b>Assessment Type</b> Project (Group)

Affiliated Entities			
Entity Code	Entity Title	Entity Version	Entity Type
DET6005	Diploma in Petroleum and Process Plant Operations	3	Programme
ENT6020	Diploma in Engineering Technology (Mechanical)	2	Programme
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
ENT6070	Diploma in Engineering Technology (Chemical and Industrial Processes Engineering)	1	Programme
ENT6071	Diploma in Engineering Technology (Petroleum Refining and Operations)	1	Programme
ENT6080	Diploma in Engineering Technology (Civil)	1	Programme
ENT6090	Diploma in Industrial Instrumentation and Automatic Control	1	Programme
ENT6100	Diploma in Engineering Technology (Automotive Technology)	1	Programme
ENT7020	Associate Degree in Engineering Technology (Mechanical)	2	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
ENT7070	Associate Degree in Engineering Technology (Chemical and Process Engineering)	1	Programme
ENT7080	Associate Degree in Engineering Technology (Civil)	1	Programme
ENT7090	AEngTech Industrial Instrumentation and Automatic Control	1	Programme
ENT8020	Bachelor of Engineering Technology (Mechanical)	3	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
ENT8070	Bachelor of Engineering Technology (Chemical and Industrial Processes Engineering)	1	Programme
ENT8080	Bachelor of Engineering Technology (Civil)	1	Programme
ENT8090	Bachelor of Engineering Technology (Industrial Instrumentation and Automatic Control)	1	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