

**APPROVED**

## EN6907: Mathematics for Engineers 1

### Course Details

Course Code:	EN6907
Course Title:	Mathematics for Engineers 1 <b>APPROVED</b>
Short Title:	Maths 1
Course Level::	Level 6
Valid From::	2023/2024 Sem 1
Credits::	15
Owner:	Engineering Technology
Assessment Method:	Achievement
Course Aim	The course is designed to give students detailed knowledge of a wide range of applications of mathematics in engineering.

CILO	
On Completion of this course, the learner will be able to	
#	Learning Outcome Description
1	Demonstrate detailed knowledge of the concepts of complex numbers in engineering
2	Solve advanced applications of linear systems
3	Apply trigonometry to solve engineering problems
4	Apply principles of exponential and logarithmic growth and decay
5	Apply various differentiation and Integration methods to routine engineering problems
6	Solve first order differential equations for engineering applications
7	Apply numerical methods for solving engineering problems.
Requisites	
No requisites	

<b>Examinations</b>
<b>Assessment Type</b> Examination (Unseen)
No Other Controlled Assessments
<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