

APPROVED

EN6107: Material Science 1

Course Details

Course Code:	EN6107
Course Title:	Material Science 1 APPROVED
Short Title:	MaterialS
Course Level::	Level 6
Valid From::	2021/2022 Sem 2
Credits::	15
Owner:	Engineering Technology
Assessment Method:	Achievement
Course Aim	Develop detailed knowledge of the characteristics and properties of materials and some advanced skills in the material selection for real-life applications.

CILO	
On Completion of this course, the learner will be able to	
#	Learning Outcome Description
1	Determine the properties of materials by identifying appropriate testing methods, conducting tests and analyzing results.
2	Select appropriate methods to achieve specific material property improvements and alterations.
3	Perform and present appropriate material selection processes for given engineering applications.
4	Compare and contrast the microstructure with resultant properties and failure mechanisms of materials used in engineering applications
Requisites	
No requisites	

Examinations
Assessment Type Examination (Unseen)
No Other Controlled Assessments
Uncontrolled Assessments
Assessment Type Lab Assignment
Assessment Type Project (Individual)

Affiliated Entities			
Entity Code	Entity Title	Entity Version	Entity Type
ENT6020	Diploma in Engineering Technology (Mechanical)	2	Programme
ENT7020	Associate Degree in Engineering Technology (Mechanical)	2	Programme
ENT8020	Bachelor of Engineering Technology (Mechanical)	3	Programme