

**APPROVED**

## EN6107: Material Science 1

### Course Details

Course Code:	EN6107
Course Title:	Material Science 1 <b>APPROVED</b>
Short Title:	MaterialS
Course Level::	Level 6
Valid From::	2020/2021 Sem 2
Credits::	15
Owner:	Engineering Technology
Assessment Method:	Achievement
Course Aim	To develop an understanding of the characteristics and properties of materials & material selection for a particular application.

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	Complete appropriate material selection processes for given engineering applications.
4	Analyse, compare and contrast the microstructure and resultant properties of materials used in engineering applications.
5	Identify the relationship between material microstructure and failure mechanisms of materials in service.
Requisites	
No requisites	

Examinations
<b>Assessment Type</b> Examination (Unseen)
No Other Controlled Assessments
Uncontrolled Assessments
<b>Assessment Type</b> Problem sheet
<b>Assessment Type</b> Project (Individual)

Affiliated Entities			
Entity Code	Entity Title	Entity Version	Entity Type
ENT7020	Associate Degree in Engineering Technology (Mechanical)	2	Programme