

APPROVED

EN7919: Thermodynamics

Course Details

Course Code:	EN7919
Course Title:	Thermodynamics APPROVED
Short Title:	Thermo
Course Level::	Level 7
Valid From::	2020/2021 Sem 2
Credits::	15
Owner:	Engineering Technology
Assessment Method:	Achievement
Course Aim	To give students an advanced knowledge and specialist applicable skills in thermodynamic processes, cycles, and heat transfer.

CILO	
On Completion of this course, the learner will be able to	
#	Learning Outcome Description
1	Select and demonstrate appropriate methods of temperature and pressure measurement.
2	Apply the principles of conservation of mass, and energy including the ideal gas laws to solve advanced mass and energy balance problems.
3	Solve advanced problems related to phases, phase changes, steam quality and property diagrams.
4	Apply the principles of energy management to solve advanced engineering problems.
5	Apply the principles of energy conversions, physical and thermochemical relations in specialist engineering applications.
Requisites	
<ul style="list-style-type: none"> Pre Requisite: EN6907 	

Examinations
Assessment Type Examination (Unseen)
No Other Controlled Assessments
Uncontrolled Assessments
Assessment Type Practical Project
Assessment Type Problem sheet

Affiliated Entities			
Entity Code	Entity Title	Entity Version	Entity Type
ENT6020	Diploma in Engineering Technology (Mechanical)	2	Programme
ENT6050	Diploma in Engineering Technology (Electromechanical)	1	Programme
ENT6100	Diploma in Engineering Technology (Automotive Technology)	1	Programme
ENT7020	Associate Degree in Engineering Technology (Mechanical)	2	Programme
ENT7050	Associate degree in Engineering Technology (Electromechanical)	1	Programme
ENT7070	Associate Degree in Engineering Technology (Chemical and Process Engineering)	1	Programme
ENT8020	Bachelor of Engineering Technology (Mechanical)	3	Programme
ENT8050	Bachelor of Engineering Technology (Electromechanical)	2	Programme
ENT8070	Bachelor of Engineering Technology (Chemical and Industrial Processes Engineering)	1	Programme