APPROVED

EN8912: Applied Thermodynamics

Course Details

Course Code:	EN8912
Course Title:	Applied Thermodynamics APPROVED
Short Title:	Applied Thermo
Course Level::	Level 8
Valid From::	2016/2017 Sem 1
Credits::	15
Owner:	Engineering Technology
Assessment Method:	Achievement
Course Aim	Investigate heat energy conversion as they apply to the industry and shedding light over alternatives by introducing renewable energy.

CILO	
On Completion of this course, the learner will be able to	
#	**Learning Outcome Description**
1	Demonstrate advanced knowledge in energy and mass balances principles, and critical knowledge of industrial thermodynamic application.
2	Compare ideal power cycles to real engines, and describe, investigate and understand advanced principles of work and energy conversion as well as their applications in thermal cycles.
3	Critically evaluate limitations of real cycle efficiencies, evaluate numerical data, measure efficiency and provide solutions to industrial problems.
4	Critically analyse, research and evaluate alternative energy sources, and explore their application for environmental sustainability.

Requisites

- Pre Requisite: EN7919 and minimum of 60 level 7 credits from the B.EngTec (Mechanical)
- Anti Requisite: ENB6915

Examinations
Assessment Type Examination (Unseen)

No Other Controlled Assessments

Uncontrolled Assessments
Assessment Type Practical Project
Assessment Type Blended Learning

Affiliated Entities

Entity Code	Entity Title	Entity Version	Entity Type
ENT8020	Bachelor of Engineering Technology (Mechanical)	3	Programme
ENT8050	Bachelor of Engineering Technology (Electromechanical)	2	Programme