

APPROVED

EN6080: Alternating Current (AC) Circuit theory

Course Details

Course Code:	EN6080
Course Title:	Alternating Current (AC) Circuit theory APPROVED
Short Title:	AC Circuit Theory
Course Level::	Level 6
Valid From::	2019/2020 Sem 2
Credits::	15
Owner:	Engineering Technology
Assessment Method:	Achievement
Course Aim	Introduce detailed theories, principles and concepts of common electrical/electronic components as applied to single phase and 3 phase alternating current (AC) circuits and to introduce basic practical design skills for AC circuit design.

CLO	
On Completion of this course, the learner will be able to	
#	Learning Outcome Description
1	Demonstrate knowledge of thermodynamics properties, concepts and laws applied in electrical circuits.
2	Apply detailed AC theories and principles to solve electrical problems related to AC circuit design and analysis
3	Apply basic and some advanced practical skills to design and analyze single-phase and 3-phase AC circuits for well-defined engineering applications
4	Use a range of measurement devices to analyze, simulate, test, measure and display electrical AC signals (voltages, currents and electrical power).
Requisites	
<ul style="list-style-type: none"> Pre Requisite: EN6000 or ENB5000 	

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

Affiliated Entities			
Entity Code	Entity Title	Entity Version	Entity Type
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
MCS8000	Minor in Control Systems	1	Programme
No Code Yet	Copy Of Associate Degree in Engineering Technology (Communications and Networks)	1	Programme