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::	2022/2023 Sem 1
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.

CILO	
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

- 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
ICT8011	Bachelor of Information and Communications Technology (Programming Major)	1	Programme
ICT8011	Bachelor of Information and Communications Technology (Programming Major)	2	Programme
BFA8800	Bachelor of Film and Animation	2	Programme
BFA8801	Bachelor of Filmmaking	1	Programme
BFA8802	Bachelor of Animation and Visual Effects	1	Programme
BWM8000	Bachelor of Web Media	3	Programme
DES8000	Bachelor of Visual Design	3	Programme
ENT6040	Diploma in Engineering Technology (Electrical)	2	Programme
ENT6050	Diploma in Engineering Technology (Electromechanical)	1	Programme
ENT6060	Diploma of Engineering Technology (Communications and Networks)	1	Programme
ENT6090	Diploma in Industrial Instrumentation and Automatic Control	1	Programme
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
ENT7090	AEngTech Industrial Instrumentation and Automatic Control	1	Programme
ENT8020	Bachelor of Engineering Technology (Mechanical)	3	Programme
ENT8031	Bachelor of Engineering Technology (Electronics)	4	Programme
ENT8040	Bachelor of Engineering Technology (Electrical)	2	Programme
ENT8050	Bachelor of Engineering Technology (Electromechanical)	2	Programme
ENT8060	Bachelor of Engineering Technology (Communications and Networks)	2	Programme
ENT8070	Bachelor of Engineering Technology (Chemical and Industrial Processes Engineering)	1	Programme
ENT8080	Bachelor of Engineering Technology (Civil)	1	Programme
ENT8090	Bachelor of Engineering Technology (Industrial Instrumentation and Automatic Control)	1	Programme
ICT7011	Associate Degree in Information and Communications Technology (Programming Major)	1	Programme
ICT7022	Associate Degree in Information and Communications Technology (Information Systems)	1	Programme
ICT7041	Associate Degree in Information and Communications Technology (Database Systems Major)	1	Programme
ICT7051	Associate Degree in Information and Communications Technology (Cyber Security)	1	Programme
ICT8022	Bachelor of Information and Communications Technology (Information Systems Major)	1	Programme
ICT8031	Bachelor of Information and Communications Technology (Networking Major)	1	Programme
ICT8041	Bachelor of Information and Communications Technology (Database Systems Major)	1	Programme
ICT8051	Bachelor of Information and Communications Technology (Cyber Security Major)	2	Programme
MCS8000	Minor in Control Systems	1	Programme
No Code Yet	Copy Of Associate Degree in Engineering Technology (Communications and Networks)	1	Programme
No Code Yet	Copy Of Bachelor of Information and Communications Technology (Cyber Security Major)	1	Programme
No Code Yet	Copy Of Diploma in Engineering Technology (Electrical)	1	Programme
NEDICTE	Non-EDICT Electives	1	Group