APPROVED

EN7061: Analogue Electronic Circuits

Course Details

Course Code:	EN7061
Course Title:	Analogue Electronic Circuits APPROVED
Short Title:	Analogue EC
Course Level::	Level 7
Valid From::	2021/2022 Sem 2

Credits::	15

Owner:	Engineering Technology

Assessment Method:	Achievement

Course Aim	
	This course addresses advanced level theories, principles and concepts of analogue electronic circuit design including modelling of non-linear electronic device characteristics. It enables students to develop modelling and testing techniques for analogue electronic circuits using simulation software and experimental work.

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CILO	
On Completion of this course, the learner will be able to	
#	Learning Outcome Description
1	Demonstrate advanced level knowledge of theories, principles and concepts relating to the design of analogue electronic circuits including thermodynamic effects and the practical applications of a range of discrete analogue electronic components.
2	Design analogue electronic circuits by selecting and using a range of discrete/non-discrete electronic components and devices.
3	Model, simulate and analyze the dynamic behavior of analogue electronic circuits.
4	Analyze the dynamic behavior of analogue devices and circuits through the acquisition of voltage current readings/data using a range of electronic measuring instruments

Requisites

- Pre Requisite: EN6907 (ENB5907) & EN6000 (ENB5000)

- Anti Requisite: EN6060

Examinations			
Assessment Type Examination (Unseen)			

No Other Controlled Assessments

Uncontrolled Assessments
Assessment Type Lab Assignment
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
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
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 Bachelor of Information and Communications Technology (Cyber Security Major)	1	Programme
NEDICTE	Non-EDICT Electives	1	Group