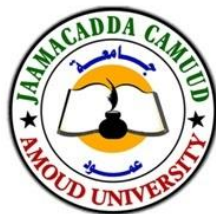



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FACULTY OF COMPUTING AND ICT

DIPLOMA IN INFORMATION TECHNOLOGY PROGRAMME

ACADEMIC YEAR 2016/ 2017

COURSE DESCRIPTION

DIT 202	Digital Electronics	
Contact Hours	45	
Pre-requisite	N/A	
Purpose/Aim	The course introduces students to the fundamentals of Digital Logic, the basis and foundation on which computers operate.	
Course Objective (Indicative Learning Outcomes)	<ul style="list-style-type: none"> • Students are required to learn about logic gate combinations and their use in building digital systems 	
Course Content	<ul style="list-style-type: none"> • Logic gates; • Basic logic functions; NAND and NOR functions; • Electronic switches; Electronic logic circuits; • Logic algebra; Logic networks; Memory circuits; • Arithmetic processes; Asynchronous counters; Synchronous counters; Shift registers and ring counters; • Applications of digital electronics; • Simple digital projects. 	
Learning & Teaching Methodologies	Lectures, tutorials	
Instructional Materials/Equipment	Classroom with audio visual aids Computer laboratory	
Course Assessment	Type	Weighting (%)
	Final Examination	60
	Mid Term Examination	20
	Assignment	10
	Attendance	10
	Total	100
Recommended Reading	Title	Author
Additional Reading		
Other Support Material	A variety of multimedia systems and electronic information resources as prescribed by the lecturer. Various application manuals, URL search and journals.	



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