


AMOU UNIVERSITY
“A Vehicle for Peace and Development”
AMOU UNIVERSITY



FACULTY OF COMPUTING AND ICT

DIPLOMA IN INFORMATION TECHNOLOGY PROGRAMME

ACADEMIC YEAR 2016/ 2017

COURSE DESCRIPTION

DIT 104	Computer Organization and Architecture	
Contact Hours	45	
Pre-requisite	N/A	
Purpose/Aim	The course introduces students to the logical and physical functionality of a computer system	
Course Objective (Indicative Learning Outcomes)	<ul style="list-style-type: none"> • Students are introduced to organization and architecture of computers • At the end of the course a student should be able to know and explain the organization and structure of a computer. • A student should further figure out the internal workings of a computer 	
Course Content	<ul style="list-style-type: none"> • Introduction to computers (generations and developments); • Data representation and transmission; Number bases; • Hardware: Mother Boards, CPU, Memory, Storage & Peripheral Devices; • Software and Networks overview; • System Bus; • Fault Diagnosis; • Input and output devices; Multimedia devices; • Low level languages: Introduction to Assembly language; • Memory, Types of Memory and Classification; • Files – Types and Organization; • Upgrading Computers; Operating Systems; Preventive Maintenance; • Batch Files. 	
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



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Recommended Reading	Title	Author	Publisher
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.		