


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 102	Foundation Physics and Electricity for IT		
Contact Hours	45		
Pre-requisite	N/A		
Purpose/Aim	The course introduces students to concepts in physics as relevant and applied for use in the field of Information Technology.		
Course Objective (Indicative Learning Outcomes)	<ul style="list-style-type: none"> • Students are introduced to a number of basic and fundamental concepts of physics and electricity • At the end of the course a student should understand basic physics and electricity including their areas of application in the field of IT 		
Course Content	<ul style="list-style-type: none"> • Introduction to physics; • Mathematical relationships in physics; Motion; Forces; Vectors; Work; Energy; • States of Matter; • Waves and energy transfer; Sound; Light and its properties; • Magnetic fields; • Quantum Theory; • Concepts of electricity; Electricity generation: heat, friction, chemical, light, pressure, magnetism; Current flow; Electromagnetism; Measuring current; Electric meters; Current flow; Measurement of potential difference; Ohm’s law and resistance; Series circuits; Parallel circuits; Internal resistance. 		
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	Publisher



AMOUD UNIVERSITY
“A Vehicle for Peace and Development”

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.		