


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 101	Linear Algebra		
Contact Hours	45		
Pre-requisite	N/A		
Purpose/Aim	The course introduces students to mathematical concepts relevant for use in various sub units 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 Logic and statistics • At the end of the course a student should understand basic logic and also have knowledge of probability including its areas of application in the field of IT 		
Course Content	<ul style="list-style-type: none"> • Introduction to Logic; Sets; • Propositional and Predicate Logic; • Relations and Functions; • Vectors and Matrices; • Determinants and Applications of Matrices; • Graphs; • Counting, Probability and Fuzzy Systems; • Proof by Induction. 		
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
Additional Reading			
Other Support Material	A variety of multimedia systems and electronic information resources as		



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	prescribed by the lecturer.
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	Various application manuals, URL search and journals.
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