

  
**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**

<b>DIT 301</b>	<b>Operating Systems</b>		
Contact Hours	45		
Pre-requisite	N/A		
Purpose/Aim	The course introduces students to the fundamentals of Computer Operating Systems, types and their functionality with practical examples		
Course Objective (Indicative Learning Outcomes)	<ul style="list-style-type: none"> <li>• Students are required to learn concepts such as command based Operating Systems, GUIs, and their internal working system, communication, memory management and process management</li> </ul>		
Course Content	<ul style="list-style-type: none"> <li>• Operating systems concepts and overview:</li> <li>• Historical perspective, types of operating systems, architecture;</li> <li>• Process Management: Process model, Process scheduling, Process Synchronization and Communication (mutual exclusion, Semaphores, monitors),</li> <li>• Deadlocks; Memory Management: Real Memory Management, Virtual Memory Management; File and I/O Management;</li> <li>• Protection and Security.</li> </ul>		
Learning & Teaching Methodologies	Lectures, tutorials		
Instructional Materials/Equipment	Classroom with audio visual aids Computer laboratory		
Course Assessment	<b>Type</b>	<b>Weighting (%)</b>	
	Final Examination	60	
	Mid Term Examination	20	
	Assignment	10	
	Attendance	10	
	Total	100	
Recommended Reading	<b>Title</b>	<b>Author</b>	<b>Publisher</b>
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.		

