


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



FACULTY OF COMPUTING AND ICT

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY PROGRAMME

ACADEMIC YEAR 2015/ 2016

COURSE DESCRIPTION

BIT 422	Linux Operating System
Contact Hours	52
Pre-requisite	BIT 222: Operating Systems
Purpose/Aim	<ul style="list-style-type: none"> This course presents the basic to advance concepts of Linux Operating System. Topics that will be examined include Introducing Linux, Working with PC Hardware, Installing Linux, Getting Help, and Understanding Using Linux Text Editors, Managing the Linux File System, Working with Linux Users and Groups, Installing and Managing Software on Linux, Using the Linux Shell, Managing Linux Processes and Services.
Course Objective (Indicative Learning Outcomes)	<ul style="list-style-type: none"> The learner should know how to install Linux Operating System, Getting Help from the system, Use Linux Text Editors, Managing the Linux File System, Working with Linux Users and Groups, Installing and Managing Software on Linux OS, Use the Linux Shell and Management of Linux Processes and Services.
Course Content	<ul style="list-style-type: none"> Introduction Linux Describe the Background and History of Linux; The Role and Function of Linux; The Historical Development of Linux; Linux Distributions; Common Linux Roles; Use the Linux User Interface; Using the Linux Command-Line Interface Working with PC Hardware Describe Personal Computer Components; Power Supplies; Motherboards; CPUs; System Memory; Expansion Slots; Storage Devices; Describe Removable Hardware Interfaces; Universal Serial Bus; Fire Wire IEEE 1394;



AMOD UNIVERSITY
“A Vehicle for Peace and Development”

	<p>PCMCIA</p> <ul style="list-style-type: none"> • Installing Linux <p>Plan a Linux Installation; Conducting a Needs Assessment; Selecting a Distribution; Verifying System Requirements and Hardware Compatibility; Planning the File System; Selecting Software Packages; Specify User Accounts; Gathering Network Information; Selecting an Installation Source</p> <ul style="list-style-type: none"> • Using Linux Text Editors <p>Using Non-Graphical Linux Text Editors; Using the Vi Editor</p> <ul style="list-style-type: none"> • Managing the Linux File System <p>Describe the Linux File System; The Role of the Linux File System; The Hierarchical Structure of the Linux File System; Types of Files Used by Linux; Complete Common the File System</p> <ul style="list-style-type: none"> • Working with Linux Users and Groups <p>Manage Users and Groups; Linux User Accounts</p> <ul style="list-style-type: none"> • Getting Help <p>Using man Pages; Understanding the Purpose of man Pages; Locating man pages by section Number; Searching for a man Page; Using less; Using info pages; Understanding the Purpose of info pages; Reading info pages; Finding Additional Documentation; Locating Program Documentation Online</p> <ul style="list-style-type: none"> • Installing and Managing Software on Linux <p>Install Software on Linux; Obtaining Linux Software</p> <ul style="list-style-type: none"> • Using the Linux Shell <p>Use Bourne Again Shell ; Review the bash Configuration Files; Using Command History</p> <ul style="list-style-type: none"> • Managing Linux Processes and Services <p>Describe How Linux Handles Processes; What exactly is a Process?; The Heredity of Linux Processes; Manage Running Processes; Viewing Running Processes; Prioritizing Processes; Managing Foreground and Background Processes; Ending a Running Process.</p>
Learning & Teaching Methodologies	Lectures, tutorials, Case studies and business planning exercises.
Instructional Materials/Equipment	Classroom with audio visual aids.



AMOUD UNIVERSITY
“A Vehicle for Peace and Development”

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