1.	Course Title	Introduction to Information Te	chnolog	gy & its	
		Applications			
2.	Course Code	CICT1513			
3.	Status	University			
4.	Credit Hour	3 (2+1) 2 lecture (2 hours lecture x 14 weeks) 1 tutorials (1.5 hours per x 14 weeks) Lab works :using simulator and emulator supervised by tutor			
5.	Semester/Year	1/1			
6.	Prerequisites	Nill			
7.	Teaching method:	Distance Learning (Electronic)			
8.	Evaluation	Assessment and Marking Percentage: Participation 5% Quizzes 15% Project 15% Mid Sem Exam 15% Final Examination 50%			
9.	Lecturer				
11.	Objective of the Subject Learning Outcomes Synopsis	This subject is designed to enable students to • Know the concepts of Information and Communication Technology (ICT) and the knowledge era. • Master the use of ICT daily lives which has affected the society, organizations and individuals in many aspects. • Explain and elaborate on the components of information and communication technology. • Understand issues, opportunities and the role of society in ICT and organization. • Demonstrate knowledge of the fundamentals of computer hardware and software architectures. By the end of the subject, students should be able to • Apply the concept of Information Communication Technology (ICT) to facilitate the organizations. • Identify the current ICT trends in industry • Help the organization to develop ICT infrastructure that is of high quality and consistent with organizational business goals. This course on Fundamental Concepts in Information and Communication Technology (ICT) aims to provide learners with a broader knowledge background on ICT and deeper understanding of problems and solutions in developing ICT strategies and systems for business organizations and society. Topics designed aim to assist learners with a concrete knowledge foundation in ICT, state-of-the-art methods and supporting technologies as well as to demonstrate to learners the applicability of ICT in daily activities. Learners will also go in-depth on the examples and issues of using ICT in daily lives which has created significant			
13.	Topics	impacts on the society, organizations, as well as individuals. Details	Lecture	Tutorial	
	Topic 1	Information Communication Technology and You The five parts of an information system: people, procedures, software, hardware and data Four kinds of computers – microcomputer, minicomputer, mainframe, and supercomputer – and describe hardware devices for input, processing, storage, output and communications Computer connectivity, the Internet and the Web	(Hrs)	(Hrs)	
	Topic 2	Application Software	4	3	

	 Common features of most software applications 		
	Browsers		
	 Word processors 		
	 Spreadsheets 		
	 Database management systems 		
	 Presentation graphics 		
	 Software suites and integrated software 		
	System Software		
	 The three basic functions of any operating system 		
	 The three categories of operating systems 		
Topic 3	The purpose of utilities and utility suites	2	1.5
	The five most essential utilities		
	Device drivers		
	Language translators		
	System Unit & Input/ Output Devices & Secondary Storage		
	How a computer uses binary codes to represent		2
	data .		
	The major system unit components.		
Topic 4	Types of memory.	3	
Topic 4	 Four principal types of bus lines. 		
	 Four types of ports. 		
	Latest Input /Output Devices		
	Latest Secondary Storage Consolition the Mindre Report time and Consolition and Consolit		
	Connectivity, the Wireless Revolution and Communications		1
	Connectivity, the wireless revolution and		
	communications.		
	Physical and wireless communications channels.		
	Conventional modems, T1, ISDN, DSL, cable		
Topic 5	modem, and satellite connections.	3	
	Bandwidth, serial versus parallel transmission,		
	direction of data transmission, and protocols.		
	 Network architecture – configurations and 		
	strategies.		
	 Local area, metropolitan area, and wide area 		
	networks.		
	The Internet and the World Wide Web		
	Internet History		
Topic 6	 Concepts of the Internet 	2	1.5
	 Functions of the Internet 		
	 Hardware and Software of the Internet 		
	Multimedia		
	Definition of Multimedia		
T	 History and Concept of Multimedia 	2	4 5
Topic 7	Multimedia Features	2	1.5
	Types of Media		
	Application of Multimedia technology		
	Privacy, Security, Ergonomics and the Environment		
	Privacy and Issues		
	Introduction to Security	2	
	Computer Crime and Measures of Security		
Topic 8	What is Ergonomics?		1.5
	Mental and Physical Health Pagia Groop BC		
	Basic Green PC Basic Page 2016 History Basic Page 2016 Hist		
	Personal Responsibility		
Topic 9	Databases Characteristics	2	1.5
·	 Database Characteristics 		

Bachelor of Information Technology in System Development and Administration (Hons)

	Other Materials:	All materials will be available to the students online.		
15.	Additional References: 1. Peter Norton. Peter Norton's Intro to Computers. Career Education; 2004 2. Michael Miller, Absolute Beginner's Guide to Computer Basics, Que 2007			
14.	Main reference: Textbook:	, Cashman, Vermaat . Discovering Computers 2008: Complete , 1st edition, 2007	e, Course Technology; Shelly	
		Credit hours	3	
		Total lecture hours	4	1
		Equivalent lecture hours	28	14
		Examples of Programming Languages Total contact hours	28	21
	Topic 12	Programming Languages History of Programming languages Why do we need Programming Languages? Generations of Programming Languages Programming languagages categories	2	3
	Topic 11	 Types of IS IS Research and Development Systems Analysis and Design The Systems Development Environment The information Systems Development Life Cycle (SDLC). Rapid Application Development (RAD), prototyping, Joint Application Development (JAD) and Computer Aided Software Engineering (CASE). Agile methodologies and extreme programming. Object Oriented Analysis and Design and the Rational Unified Process (RUP). 	2	1.5
	Topic 10	Information Systems (IS) History of IS Study of IS Applications of IS	2	1.5
		 Features of Database Management Systems Evolution of Database Technology Architectures of Database Management Systems 		