1.	Subject Title	Information Technology and Application				
2.	Subject code:	CICT1033				
3.	Status:	Major				
4.	Credit hour:	3 (2+1)				
		2 for lecture ( 2 hours per week x 14 weeks)				
		1 for lab (2 hours per week x 14 weeks)				
5.	Semester/year:	1/1				
6.	Pre-requisite:	None				
7.	Teaching method:	Distance Learning (Electronic)				
8.		Assessment and Marking Percentage:				
		Quizzes	10 %			
	Evaluation	Assignments	10 %			
		Interactions through discussion board	10 %			
		Mid-Semester Exam	20 %			
	Lasturani	Final Examination	50 %			
9. 10.	Lecturer:	CICT1022 is designed to enable students to:				
10.	Objective:	CICT1033 is designed to enable students to:  • Know the concepts of Information and Commu	nication Tashs =	logy (ICT) and		
		the knowledge era. Master the use of ICT dai				
		society, organizations and individuals in many a	•	as affected the		
		Explain and elaborate on the components of in:		nmmunication		
		technology.	ormation and co	Jiiiiidiiicatioii		
		<ul> <li>Understand issues, opportunities and the role of</li> </ul>	of society in ICT a	and		
		organization.				
		Demonstrate knowledge of the fundamentals of	f computer hard	dware and		
		software architectures.				
11.	Learning outcome:	Upon completion of CICT1033, students should be able to:				
		<ul> <li>Apply the concept of Information Communication Technology (ICT) to facilitate the organizations. Identify the current ICT trends in industry.</li> <li>Help the organization to develop ICT infrastructure that is of high quality and</li> </ul>				
		consistent with organizational business goals.				
12.	Topics	Details	Lecture	Lab (Hrs)		
12.	Торісз		(Hrs)	Lab (1113)		
		Information Communication Technology and You				
		The five parts of an information system: people,				
		procedures, software, hardware and data				
	Topic 1	Four kinds of computers – microcomputer,	2	2		
	•	minicomputer, mainframe, and supercomputer –				
		and describe hardware devices for input,				
		processing, storage, output and communications				
		Computer connectivity, the Internet and the Web  Application Software				
		Application Software				
	Tonic 2	<ul> <li>Common features of most software applications</li> <li>Browsers</li> </ul>				
		<ul><li>Browsers</li><li>Word processors Spreadsheets</li></ul>	4	4		
	Topic 2	<ul> <li>word processors spreadsneets</li> <li>Database management systems</li> </ul>	4	4		
		Presentation graphics				
		<ul> <li>Software suites and integrated software</li> </ul>				
<u> </u>		System Software				
		The three basic functions of any operating system				
		The three categories of operating systems				
	Topic 3	The three categories of operating systems     The purpose of utilities and utility suites The five	2	2		
	Topic 3	most essential utilities	2	۷		
		Device drivers				
		Language translators				
	<u> </u>	- Language translators				

Topic 4	System Unit & Input/ Output Devices & Secondary Storage  How a computer uses binary codes to represent data.  The major system unit components.  Types of memory.Four principal types of bus lines.  Four types of ports.  Latest Input /Output Devices  Latest Secondary Storage	3	3
Topic 5	<ul> <li>Bandwidth, serial versus Connectivity, the Wireless Revolution and Communications</li> <li>Connectivity, the wireless revolution and communications.</li> <li>Physical and wireless communications channels.</li> <li>Conventional modems, T1, ISDN, DSL, cable modem, and satellite connections.parallel transmission, direction of data transmission, and protocols.</li> <li>Network architecture – configurations and strategies.</li> <li>Local area, metropolitan area, and wide area networks.</li> </ul>	3	3
Topic 6	<ul> <li>The Internet and the World Wide Web</li> <li>Internet History</li> <li>Concepts of the Internet Functions of the Internet</li> <li>Hardware and Software of the Internet</li> </ul>	2	2
Topic 7	<ul><li>Multimedia</li><li>Definition of Multimedia</li><li>History and Concept of Multimedia</li></ul>	2	2
Topic 8	Privacy, Security, Ergonomics and the Environment  Privacy and Issues Introduction to Security Computer Crime and Measures of Security What is Ergonomics? Mental and Physical Health Basic Green PC Personal Responsibility	2	2
Topic 9	<ul> <li>Databases</li> <li>Database Characteristics</li> <li>Features of Database Management Systems         Evolution of Database Technology</li> <li>Architectures of Database Management Systems</li> </ul>	2	2
Topic 10	<ul> <li>Information Systems (IS)</li> <li>History of IS</li> <li>Study of IS Applications of IS</li> <li>Types of IS</li> <li>IS Research and Development</li> </ul>	2	2

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	Topic 11	<ul> <li>Systems Analysis and Design</li> <li>The Systems Development Environment</li> <li>The information Systems Development Life Cycle (SDLC).Rapid Application Development (RAD), prototyping, Joint Application Development (JAD) and Computer Aided Software Engineering (CASE).</li> <li>Agile methodologies and extreme programming.</li> <li>Object Oriented Analysis and Design and the Rational Unified Process (RUP).</li> </ul>	2	2	
	Topic 12	Programming Languages  History of Programming languages  Why do we need Programming Languages?Generations of Programming Languages  Programming languagages categories  Examples of Programming Languages	2	2	
		Total contact hours	28	28	
		Equivalent Lecture hours	28	14	
		Total Lecture hours		42	
		Credit Hours	3		
13	Main reference:	Shelly, Gary B. Cashman, Thomas J. and Vermaat, Misty E Computers 2008. Course Technology;	. (2007). Discovering		
	Additional	1. Norton, Peter. (2004) Peter Norton's Introduction to Computers (6 <sup>th</sup> ed.)			
	references:	Career Education			
14		2. Miller, Michael (2007). <b>Absolute Beginner's Guide to Computer Basics</b> (4 <sup>th</sup> ed). Que.			
	Other materials:	All other materials will be available to students online.			