Addis Ababa University		
	School of Information Science	
Module Title	Basics of Information and Communication Technology	
Module Code	INSY-M1003	
Course Title	Information and Communication Technology as Common Course	
Course Code	INSY1001	
Instructor Information	Name: Tsegaye Berhanu	
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Course Information	Academic Year: 2018/2019	
	Semester: II	
	Mode of Delivery: Parallel	
Course Objectives	This course enables you to	
	• Understand the importance of information and communication technologies in our	
	daily lives	
	• Understand concepts, principles and operations of information and communication	
	technologies	
	• Be aware of issues that you need to be concerned with while making use of these	
Course Description	technologies. The course is designed for students taking introduction to information and communication	
Course Description	technologies as a common course. It offers an overview of computers and ICT, the	
	development of computers, logical organization of a computer system, computer software,	
	computer arithmetic, computer system architecture, computer network and communication,	
	problem solving using computers (Application of computer in different areas), operating	
	systems (single and multiuser), windows environment. It should be given after the	
	introductory course of the student's field of study.	
Learning Outcomes	Upon completion of this course, a student will be able to:	
	• Use computers as a prime tool in solving common problems within various facets of	
	our society	
	• Explain the major components, functions and principle of computers	
	• Identify various components of a computer system	
	• Explain the historical development of computer with their characteristics	
	• Define basic terms associated with communication and networking	
	• Make use of the basic MS office application	
	Describe basic concepts in internet	
	Identify relevant ICT applications in their field of study	
—	Course Content	
Topics		
	Information and Communication Technology	
1.1. Defining Com 1.2. Data Vs Inform		
1.3. Characteristic		
1.4. Application a	•	
	evelopment of Computers	
2.1. History of Co		
2.2. Generations of		
2.3. Types of Com	•	
•	ower of Computers	
Chapter 3. Computer S	ystems	
3.1. Hardware		
	processing unit (CPU)	
	n Memory	
3.1.3. Input	t unit	
-	•	
3.1.4. Outp	out unit ondary Storage Unit	

3.2. Software 3.2.1. System software 3.2.2. Application software 3.3. Data representation and Numbering Systems Chapter 4: Data Communication and Computer networks 4.1. Data transmission 4.2. Telecommunications 4.3. Types of Network 4.4. Internet and the World Wide Web Chapter 5: Current Trends and Developments of Computers 5.1. Computer Crime and Security 5.2. Software Piracy 5.3. Hardware, Software, Communication and User Interface Advances Laboratory Session 1. Basics of Windows Operating System • The computer environment (Desktop, My Computer and My Documents) • Working with files and Folders • Searching Files/Folders	
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The computer environment (Desktop, My Computer and My Documents)Working with files and Folders	
Working with files and Folders	
 Searching Files/Folders 	
 Protecting Computers or files with password 	
Keyboard shortcuts	
2. MS-Word	
• Typing (font size, page margins, spacing, etc)	
• Document formatting (alignment, font style, font color, boarder, etc)	
• Document Header and Footer	
Hands on exercise and assignment	
3. MS-Excel	
Creating the Workbook	
• Enter data (Text, Numbers, etc.)	
Excel Function	
Hands on exercise and project	
Teaching Strategy The course will be delivered in the form of lectures, demonstration, student presenta	ions,
group discussions, and individual and group project works.	
Assessment Criteria The evaluation shall be based on both formative and summative assessment which include	de:
Assessment Forms % of credit allotted	
• Quizzes 20	
• Assignments 10	
• Practice (Lab Report and Assignment) 20	
• Final examination 50	
Reference Text book	
1. Sinha, Pradeep K, & Priti Sinha (2003). Foundations of Computing. New D	elhi∙
BPF publications	
2. Carter, Roger (1996). Information Technology, 2 nd edition. Oxford: N	Abel
Simple books.	lauc
3. Dida Midekso (1994). Introduction to Computer Science. Addis A	naha
University press	Java
	ioos
4. Senn, james A. (195) information Technology in Business: Principles, pract	ices,
and opportunities. Prentice Hall	o a -
5. Leon, Alexis and Mathes Leon (1999). Fundamental of Information technol	ogy.
New delhi: Leon TECHWorld	