

1. D. Morley. (2011). *Understanding Computers in a Changing Society* (4th ed.). CourseTechnology.
2. B. K. Williams, S. C. Sawyer. (2010). *Using Information Technology: introduction to computers & communications* (8th ed.). McGraw-Hill.
3. Anita Goel "Computer Fundamentals", Pearson Education India, Sep 1, 2010

جامعة العلوم والتكنولوجيا

Electronic Materials and Web Sites

- 1- <https://myhome.cengagebrain.co.uk/cb/login.htm#>

**V. Course Policies (To be determined by Faculty Deanship):**

Based on university regulations, the following aspects should be figured out:

1.	(Class Attendance) :
2.	(Tardy) :
3.	(Exam Attendance/Punctuality):
4.	(Assignments & Projects):
5.	(Cheating):
6.	(Plagiarism):
7.	(Other policies) :

REPUBLIC OF YEMEN  
UNIVERSITY OF  
**SCIENCE & TECHNOLOGY**  
Administration of  
Quality Assurance and Accreditation



الجمهورية اليمنية

إدارة ضمان الجودة والاعتماد

**Template of Course Syllabus**

Faculty:

Department:

Program:

**I. General information about the course instructor :**

Name	Nabeel A. Almekhlafi	Office Hours(3 Hours Weekly )					
Location & phone number	CIT college – boys brunch Ext. (3015)	Sat	Sun	Mon	Tue	Wed	Thu
Email	nabeelalmiklafy@yahoo.com		/				

المراجع

د.إسماعيل حميد

إدارة ضمان الجودة والاعتماد  
هذه الوثيقة  
مستلمة

الموصف

أ.نبييل المخلافي

II. General information about the course:					
1.	Course Title :	COMPUTER FUNDAMENTALS			
2.	Course Code and Number :	CIT04			
3.	Credit Hours :	Credit Hours			Total
		Theoretical	Seminar/Tutorial	Practical	
		2		2	
4.	Study Level and Semester:	1 <sup>st</sup> year 1 <sup>st</sup> semester			
5.	Pre-requisites (if any):	nil			
6.	Co-requisites (if any):	nil			
7.	Program in which the course is offered:	All programs in CIT college			
8.	Teaching Language:	English			
9.	Instruction location:				

I. Course Description	
<p>This course will introduce: 1) fundamental electronic data processing concepts and associated terminologies; 2) the development of computers and computer applications; and 3) the impact of computers on society. Furthermore, peripherals of an actual computing system, CPU configuration, device interfaces, binary number systems, and professional ethical issues in computing will be discussed.</p>	
II. Course Aims:	
<ul style="list-style-type: none"> <li>• <i>This course aims to :</i> <ol style="list-style-type: none"> <li>1. Discuss the evolution of computers in different generations.</li> <li>2. Classify computers in different categories based on their capabilities.</li> <li>3. Describe the major components of computers and information technology applications: Hardware, software, data, processes, computer networks and people.</li> <li>4. Understanding Network Fundamentals.</li> <li>5. Understanding Internet Fundamentals.</li> <li>6. Understanding Computer Number system and conversions.</li> <li>7. Applying the Basics of Computer Maintenance.</li> </ol> </li> </ul>	

III. Course Intended Learning Outcomes (CILOs) :	
a1. Known the evolution of computers in different generations.	

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هبة هادي

الموصف  
آ. نبيل المخلافي

- a2. Define the term, computer, and describe the relationship between data and information and components of a computer.
- a3. Distinguish between system software and application software
- b2. Identify characteristics of various personal computer processors on the market today, and describe the ways processors are cooled, chips, adapter cards, and other components of a motherboard, the control unit and arithmetic logic unit components of a processor, and explain the four steps in a machine cycle
- c1. Applying the Basics of Computer Maintenance
- c2. Use and training of widely graphics, multimedia, home, personal, and educational programs.

#### IV. Course Contents

##### Theoretical Aspect:

No.	Course Units	Sub-topics	Week due	Contact Hours
1.	Digital Literacy	- a world of technology - computers - data and information	1	2
2.	The Internet	- The internet -the world wide web - other internet services	1	2
3.	Computers and Mobile Devices	-Desktops and Mobile Computers Cloud Computing Protecting Hardware Health Concerns of Using Technology	1	2
4.	Programs and Apps	Productivity Applications Graphics and Media Applications Personal Interest Applications Communications Applications Utility Programs	1	2
5.	Inside Computers and Mobile Devices	Inside the Case Processors, Memory, Adapters, and Buses Data Representation	1	2
6.	Input and Output	Input Devices Output Devices Assistive Technology Input and Output	2	4
7.	Digital Storage	Hard Disks Flash Memory Storage Cloud Storage and Enterprise Storage Other Types of Storage	1	2

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معتمد  
2017

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أ. نبيل المخلافي

8.	Operating Systems	Operating Systems Functions Types of Operating Systems	1	2
9.	Communications and Networks	Communications Types of Networks Network Communications Standards Communications Devices and Transmission Media	1	2
10.	Information and Data Management	. Databases, Data, and Information File Processing versus Databases Database Management Systems, Information Systems in the Enterprise	2	4
11.	Computer Number system and conversions	Decimal, Binary, Octal, Hexadecimal. Conversion: Decimal to all other number systems, Binary to octal and hexadecimal, Addition of binary numbers, Binary subtraction, Use of complements to represent negative numbers, Conversion of a binary fraction to a decimal fraction and decimal to binary	2	4
Total number of weeks and hours				

**Second: Practical/Tutorial/Clinical Aspects :**

Write up practical/tutorial/clinical topics

No.	Practical/Tutorial/Clinical topics	No. of Weeks	Contact Hours
1.	Lab tutorial	Weekly	2
2.			
Total number of weeks and hours			

**V. Teaching Strategies**

1. Lectures

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أ. نبيل الخلاجي

2. lab practice

#### VI. Tasks and Assignments

No.	Task/Assignment	Week due	Mark
1.	homework	1	2.5
2.	Assignment	After chapter ending	5
3.			

#### VII. Learning Assessment:

No.	Assessment Tasks	Assessment day & date	Mark	Weight
1	Assignments	Chapter	5	5%
2	Quiz 1	5	2.5	2.5%
3	Homework	7	2.5	2.5%
	Midterm Exam	9	20	20%
	lab	14	20	20%
	Final Exam	16	50	50%
	Total		100	

#### VIII. Learning Resources

##### Textbooks

1. M. E. Vermaat. (2013). *Discovering Computers 2014* (1st ed.). Cengage Learning.

##### Essential References:

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IX. Course Policies (To be determined by Faculty Deanship)	
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