هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission

اعتماد NCAAA T4 2020

Course Specifications

Course Title:	**Computer Fundamentals**
Course Code:	**IT 112**
Program:	**Computer Science/ Information Technology**
Department:	**Information Technology**
College:	**College of Computer and Information Sciences**
Institution:	**Majmaah University**

Table of Contents

A. Course Identification

1. Credit hours:	**3(4,1,0)**
2. Course type	
a.	University ☐ College ☒ Department ☐ Others ☐
b.	Required ☒ Elective ☐
3. Level/year at which this course is offered:	**Level 1**
4. Pre-requisites for this course (if any)**:**	**NA**
5. Co-requisites for this course (if any)**:**	**NA**

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	**Traditional classroom**	55	100%
2	**Blended**		
3	**E-learning**		
4	**Distance learning**		
5	**Other**		

7. Contact Hours (based on academic semester)

No	Activity	Contact Hours
1	**Lecture**	**44**
2	**Laboratory/Studio**	**11**
3	**Tutorial**	
4	**Others** (specify)	
	Total	**55**

B. Course Objectives and Learning Outcomes

1. Course Description

This course introduces the overview of the fundamentals of computers. Course coverage will include both theoretical and practical understanding of computer fundamentals. The course will teach all kinds of computing devices (like PCs and Macs, tablets, and phones) as well as how to configure and troubleshoot issues related to network or internet. It will teach, how to work with applications and files. Students will also learn about security, safety, and preventative maintenance, along with basics of databases and programming skills.

2. Course Main Objective

1. Identify and understand the basic computer components.
2. Understand various operating systems, virtualization, data storage, and sharing.
3. Understand setup, software installation and configuration and troubleshooting devices.
4. Learn how to work with applications and files.
5. Learn to connect to networks and the Internet.
6. Identify security issues affecting the use of computers and networks.

7. Understand some principles of software and database development.

3. Course Learning Outcomes

	CLOs	Aligned PLOs
1	**Knowledge and Understanding**	
1.1	CLO1: Identify and understand the basic computer components.	K1
1.2	CLO5: Understand some principles of software and database development.	K1
1.3		
1.4		
2	**Skills :**	
2.1	CLO2: Understand setup, software installation and configuration, security, and basic troubleshooting.	S2
2.2	CLO3: Learn to connect to networks and the Internet	S2
2.3	CLO4: Identify security issues affecting the use of computers and networks.	S2
2...		
3	**Values:**	
3.1		
3.2		
3.3		
3...		

C. Course Content

No	List of Topics	Contact Hours
1	Common computing devices, using a workstation	4
2	Use and manage an OS, system troubleshooting	6
3	System components, using device interfaces, peripheral devices	6
4	Storage devices, file systems	4
5	Connecting to a network, secure web browsing	6
6	Shared storage and mobile devices	4
7	Application and databases: Data types, using applications	8
8	Application development and databases	7
9	Systems Security, securing devices,	4
10	Access control systems	3
11	Security policies and procedures	3
Total		55

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	**Knowledge and Understanding**		
1.1	CLO1: Identify and understand the basic computer components.	Classroom Teaching	Midterm Exam, Quizzes, Final Exam

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.2	CLO5: Understand some principles of software and database development.	Classroom Teaching and Laboratory practice	Midterm Exam, Quizzes, Final Exam
…			
2.0	**Skills**		
2.1	CLO2: Understand setup, software installation and configuration, security, and basic troubleshooting.	Classroom Teaching and Laboratory practice	Lab Exercise
2.2	CLO3: Learn to connect to networks and the Internet	Classroom Teaching and Laboratory practice	Lab Exercise
2.3	CLO4: Identify security issues affecting the use of computers and networks.	Classroom Teaching and Laboratory practice	Midterm Exam, Quizzes, Final Exam, Assignments
3.0	**Values**		
3.1			
3.2			
…			

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Quiz 1	Week 3	10%
2	Assignment 1	Week 3	10%
3	Midterm	Week 6	20%
4	Assignment 2	Week 7	10%
5	Quiz 2	Week 9	10%
6	Final Exam	Week 12	40%
7			
8			

***Assessment task** (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice :
Students can meet the faculty during advising hours or whenever the faculty is in the office.
Office Hours: 4 Hours/Week

F. Learning Resources and Facilities

1.Learning Resources

Required Textbooks	CompTIA IT Fundamentals+ FC0-U61 Cert Guide (Certification Guide) 1st Edition. ISBN-13: 978-0789760418

Essential References Materials	
Electronic Materials	Saudi Digital Library
Other Learning Materials	

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	Laboratory- Capacity for 20 students to be seated.
Technology Resources (AV, data show, Smart Board, software, etc.)	PC - Smart board - Computers in the Lab room
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	Internet Connection

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Final Exam Evaluation	Peers	Verification of Marks
Course Report Verification	Quality Coordinator	Check List

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)
Evaluators (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)
Assessment Methods (Direct, Indirect)

H. Specification Approval Data

Council / Committee	
Reference No.	
Date	