هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission

2023
TP-153

Course Specification

(Bachelor)

Course Title:	Computer Fundamentals
Course Code:	IT112
Program:	Information Technology
Department:	Information Technology
College:	College of Computer and Information Science
Institution:	Majmaah University
Version:	2
Last Revision Date:	31 May 2023

Table of Contents

A. General information about the course:

1. Course Identification

1. Credit hours: (3 (3,1,0))					
2. Course type					
A.	☐University	☒ College	☐Department	☐Track	☐Others
B.	☒ Required		☐Elective		
3. Level/year at which this course is offered: (First Level/1st Year)					
4. Course general Description:					
This course introduces the overview of the fundamentals of computers. Course coverage will include both theoretical and practical understanding of computer fundamentals and numbering systems. 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.					
5. Pre-requirements for this course (if any)**:**					
N/A					
6. Pre-requirements for this course (if any)**:**					
N/A					
7. Course Main Objective(s):					
1. Identify and understand the basic computer components. 2. Understand numbering systems and its conversions. 3. Understand various operating systems, virtualization, data storage, and sharing. 4. Understand setup, software installation and configuration and troubleshooting devices. 5. Learn how to work with applications and files. 6. Learn to connect to networks and the Internet. 7. Identify security issues affecting the use of computers and networks. 8. Understand some principles of software and database development.					

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	60	100%
2	E-learning		
3	Hybrid • Traditional classroom • E-learning		
4	Distance learning		

3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	**Lectures**	45
2.	**Laboratory/Studio**	15
3.	**Field**	
4.	**Tutorial**	
5.	**Others (specify)**	
Total		60

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	**Knowledge and understanding**			
1.1	CLO1: Identify and understand the basic computer components, and numbering system.	K1	Classroom Teaching	Midterm Exam, Quizzes, Final Exam, Assignments
1.2	CLO2: Understand setup, software installation and configuration, security, and basic troubleshooting.	K1	Classroom Teaching and Laboratory practice	Midterm Exam, Quizzes, Final Exam, Assignments

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.3	CLO3: Learn to connect to networks and the Internet	K1	Classroom Teaching and Laboratory practice	Midterm Exam, Quizzes, Final Exam, Assignments
2.0	**Skills**			
2.1	CLO4: Identify security issues affecting the use of computers and networks.	S1	Classroom Teaching and Laboratory practice	Midterm Exam, Quizzes, Final Exam, Assignments
2.2	CLO5: Understand some principles of software and database development.	S1	Classroom Teaching and Laboratory practice	Midterm Exam, Quizzes, Final Exam, Assignments
...				
3.0	**Values, autonomy, and responsibility**			
3.1				
3.2				
...				

C. Course Content

No	List of Topics	Contact Hours
1.	Common computing devices	4
2.	Numbering Systems	5
3.	System components, using device interfaces, peripheral devices	4
4.	Memory, Storage devices, file systems	5
5.	Operating systems, Computer and application software.	4
5.	Software troubleshooting and World Wide Web.	4
6.	Introduction to Networking	5
7.	Introduction to Database	5
8.	Introduction to Programming Languages and Application	5
9.	Introduction to Cyber Security Concepts	4
10.	Handling Windows Operating Systems Tools	3
11.	Handling Windows Backup and Restore, installing Fedora Linux	3

12.	Basic Linux Basic commands and user functions	3
13.	Basic HTML	3
14.	Database Management System (Microsoft Access)	3
Total		60

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Assignments	Week 3,5	15%
2.	participation	Week 12	5%
3.	Quizzes	Weeks 4,5,7,12	20%
4.	Midterm	Week 10	20%
5.	Final Exam	Week 16	40%

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.).

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	CompTIA IT Fundamentals+ FC0-U61 Cert Guide (Certification Guide) 1st Edition. ISBN-13: 978-0789760418
Supportive References	
Electronic Materials	• Web References and downloads: http://lms.mu.edu.sa • College Computer Laboratory for Practical Implementation
Other Learning Materials	

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Laboratory- Capacity for 20 students to be seated.
Technology equipment (projector, smart board, software)	PC - Smart board - Computers in the Lab room
Other equipment (depending on the nature of the specialty)	Internet Connection

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students	Indirect
Effectiveness of Students assessment	Students	Indirect
Quality of learning resources		
The extent to which CLOs have been achieved		
Other		

Assessors (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)

Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	
REFERENCE NO.	
DATE	