Faculty: Information Technology	
Department: Computer Science	Program: Bachelor
Academic year:	Semester:



Course Plan

First: Course Information

Course No.: 1501438	Course Title: Cloud Computing Credit		Credit Hou	rs: 3	Theoretical: 3	Practical: 0
Prerequisite No. and Title: 1501430			No.:	Lectur	re Time:	
Level in JNQF	7					
Type Of Course:	 □ Obligatory University Requirement □ Obligatory Faculty Requirement ■ Obligatory Specialization Requirement □ Ancillary course 			☐ Elective University Requirement ☐ Elective Faculty Requirement t ☐ Elective Specialization Requirement		
Type of Learning:	 □ Face-to-Face Learning ■ Blended Learning (2 Face-to-Face + 1 Asynchronous) □ Online Learning (2 Synchronous+ 1 Asynchronous) 					

Second: Instructor's Information

Course Coordinator:							
Name:		Academic Rank:					
Office Number:		Extension Number:	Email:				
Course Instructor	:						
Name:		Academic Rank:					
Office Number:		Extension Number:	Email:				
Office Hours:	Sunday Mondo	ay Tuesday Wednesday	y Thursday				

Issue Date: 20/10/2023

Third: Course Description

Cloud computing has become everywhere. It started with storing files on the cloud and retrieving them,
and recently the cloud includes many services that make computing ubiquitous. Cloud computing is
growing and it provides services to different levels of users from beginners to professionals. This course
discusses all aspects of cloud computing, its applications, services, deployment models, and migration
strategies.

Fourth: Course Objectives

- 1. List cloud concepts and the services provided.
- 2. Identify the different deployment models.
- 3. Explain the challenges and risks of cloud computing.
- 4. Plan for cloud migration using the cloud migration strategies.



Fifth: Learning Outcomes

Level descriptor according to (JNQF)	CILOs Code	CILOs If any CLO will not be assessed in the course, mark NA.	Associated PILOs Code Choose one PILO for each CILO*	Assessment method Choose at least two methods
	K1	Explain cloud computing fundamentals.	PK1	 Mid-term Exam Final Exam Quizzes
Knowledge	K2	Select cloud computing applications.	PK2	 Mid-term Exam Final Exam Quizzes
	К3	Illustrate the basic security threats and concerns for cloud computing.	PK3	 Mid-term Exam Final Exam Quizzes
	S1	List cloud computing services.	PS3	 Mid-term Exam Final Exam Assignments Quizzes
Skills	S2	Examine cloud computing deployment models.	PS3	Mid-term ExamFinal ExamAssignmentsQuizzes
	S3	Compare the cloud computing migration strategies.	PS4	Mid-term ExamFinal ExamAssignmentsQuizzes
	C1	Create a cloud computing migration plan using one of the migration strategies.	PC4	Project
Competencies	C2	Develop a cloud computing deployment plan based on the business needs.	PC3	Project

^{*}CILOs: Course Intended Learning Outcomes; PILOs: Program Intended Learning Outcomes; For each CILO, the PILO could be the same or different.



Sixth: Learning Resources

Main Reference:	Cloud Comp	Cloud Computing: Business Trends and Technologies					
Author: Faynberg I., Skuler, D	Lu, H., and	Issue No.:	Print:	Publication Year: 2016			
Additional Sources and Websites:	is-clo • Wha us/re • Wha	is-cloud-computing What is cloud computing? URL: https://azure.microsoft.com/en-us/resources/cloud-computing-dictionary/what-is-cloud-computing/					
Teaching Type:	Classroom	■ Classroom □ Laboratory □ Workshop ■ MS Teams ■ Moodle					

Seventh: Course Structure

Week	Course Intended Teaching Outcomes (CILOs)	Topics	Teaching Procedures*	Teaching Methods**	References***
	W1 W2	Cloud fundamentals	Face-to-Face	Lectures	Chapter 1
1	K1, K2	What is cloud computing?	Asynchronous	videos	Web Ref.
2	K1, K2	The total cost of ownership and general cloud		Lectures	Chapter 2
			Asynchronous	videos, quiz	Web Ref.
3	S3	Migrating to the cloud: Investigate service migration to the cloud. Identifying services to be migrated to the cloud.	Face-to-Face Asynchronous	Lectures	Chapter 2
		What is Cloud Migration? Strategy, Process, and Tools	Asynchronous	videos, assignments, reading	Web Ref.
4	K1, K2, K3	Disadvantages of cloud computing to end users and organizations.	Face-to-Face Asynchronous	Lectures	Chapter 2



		The pros and cons				
		of cloud	Asynchronous	videos, reading, quiz	Web Ref.	
		computing		8, 1		
		Cloud computing	Face-to-Face	Lastumas	Chantan 2	
5	S1, S2	services models	Asynchronous	Lectures	Chapter 3	
3	31, 32	Cloud computing	Asynchronous	videos, reading	Web Ref.	
		service models	Asylicinollous	videos, reading	Web Kei.	
		Differentiate				
		between On-				
		Premise, SaaS,				
		PaaS, and IaaS	Face-to-Face	Lectures	Chapter 3	
		with a view to	Asynchronous		•	
6	S1	understanding when and how				
		they are deployed.				
		How to select the				
		cloud computing				
		service model for	Asynchronous	videos, assignments	Web Ref.	
		your business				
		Cloud deployment				
		models: Interpret				
		the differences	Face-to-Face	Lectures		
		between public,	Asynchronous		Chapter 3	
7	S2, S3	private, hybrid,				
		and permutations				
		of each.				
		Cloud Deployment Models	Asynchronous	videos, reading	Web Ref.	
		Design of a simple				
		deployment model			Chapter 3	
		to include the				
		application to be		Lectures		
		hosted, selection	Face-to-Face			
		of IaaS, SaaS,	Asynchronous		Chapter 3	
8	S1, S2, S3	PaaS, platform				
· ·	51, 52, 50	hosting option, and				
		management				
		options. How to select the				
		cloud computing		videos, assignments,		
		deployment model	Asynchronous	reading	Web Ref.	
		for your business		Touding		
	•	Midtern	n Exams			
		Review different				
		CSP frameworks,				
		including best				
		practices,	Face-to-Face	T	C1	
9	g1 g2 g2	implementation	Asynchronous	Lectures	Chapter 4	
	S1, S2, S3	recommendations,	-			
		and products and				
		services offered				
		Compare between	Asynchronous	videos, assignments,	Web Ref.	
		different CSPs.		reading		
10	К3	Understand the	Face-to-Face	Lectures	Chapter 5	
	İ	security risks and	Asynchronous		*	



		ways of minimizing them			
		Cloud computing security concerns	Asynchronous	videos, reading, quiz	Web Ref.
11	К3	Identify different legal factors involved in commissioning a cloud system	Face-to-Face Asynchronous	Lectures	Chapter 5
		Cloud computing legal issues	Asynchronous	videos, reading	Web Ref.
12	V1 V2 V2	Virtualization	Face-to-Face Asynchronous	Lectures	Chapter 6
12	12 K1, K2, K3	What is Virtualization	Asynchronous	videos, reading, quiz	Web Ref.
12	S2 S2	scalability, availability, fault tolerance, and disaster recovery	Face-to-Face Asynchronous	Lectures	Chapter 7
13	S2, S3	Popular Virtualization Platforms and Technologies	Asynchronous	videos, assignments, reading	Web Ref.
14	K1, K2, K3, S1, S2, S3, C1, C2	Presentations & Projects Discussions		Projects	-
	-	Review	Asynchronous	Forum	-
		Final I	Exams		

^{*}Teaching procedures: (Face-to-Face, synchronous, asynchronous).

*** Reference: (Pages of the book, recorded lecture, video....)



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^{**} Teaching methods: (Lecture, video....).

Eighth: Assessment Methods

Methods	Online Learning	Blended Learning	Specific Course Output to be assessed **If any CILO will not be assessed in the course, mark NA.								
	8	8	Learning	K1	K2	К3	S1	S2	S3	C1	C2
First Exam											
Second Exam											
Mid-term Exam		30		✓	✓	✓	✓	✓	✓		
Participation											
Asynchronous Activities											
Quizzes		5		√	✓	✓					
Assignments		5					✓	✓	✓		
Group presentation		10		✓	✓	✓	✓	✓	√	✓	✓
Final Exam		50		✓	✓	√	✓	√	✓		
Total out of 100		100									



Ninth: Course Policies

- All course policies are applied to all teaching patterns (online, blended, and face-to-face Learning) as follows:
 - a. Punctuality.
 - b. Participation and interaction.
 - c. Attendance and exams.
- Academic integrity: (cheating and plagiarism are prohibited).

Approval	Name	Date	Signature
Head of Department			
Faculty Dean			

