SYLLABUS

IS1470: Cloud Computing

CREDIT HOURS	3 credit hours (Lectures: 3)		PREREQUISITE	IS1240 (IT Infrastructure)

Instructor:
Contact information and office hours

Office No: To be announced (TBA)

Office Hours: TBA

E-mail: _____@imamu.edu.sa

COURSE DESCRIPTION
This course Describe the key concepts and technologies in cloud computing , Evaluate cloud computing technologies and platforms in the context of the needs of a specific application. Design data storage components for cloud-based software systems, Assess and monitor resource use of applications in virtualized environments. It aslo Design, implement, and deploy cloud applications for current cloud platforms. Evaluate privacy and security issues for cloud infrastructure and cloud applications.

	COURSE LEARNING OUTCOMES (CLOs)	Aligned SOs
1	**Knowledge and Understanding**	
1.1	Understand the core concepts of the cloud computing paradigm	1(I)
1.2	Understand the technology infrastructure and network requirements for cloud computing	1(P)
1.3		
1.4		
1.5		
2	**Skills :**	

2.1	Evaluate privacy and security issues for cloud infrastructure and cloud applications	4(A)
2.2		
2.3		
2.4		
2.5		
3	**Values:**	
3.1	Function effectively on teams to accomplish a common goal	5(P)
3.2	Present a topic in a compelling manner	3(P)
3.3		
3.4		
3.5		

TEACHING Strategies
Lectures
Self-Learning

No	List of Topics	Contact Hours	Self-Learning
1	Introduction to Cloud Computing	3	
2	Cloud Service providers and the Cloud Ecosystem	3	2
3	Concurrency in the Cloud	3	
4	Overview of parallel and distributed systems	3	2
5	Cloud and Networking	3	
6	Cloud Data Storage	3	
7	Cloud Applications	6	
8	Cloud Resource Virtualization	6	
9	Cloud Security	3	2
10	Project discussions	3	
11			
12			
Total		**36**	**6**

TEXT BOOK
Marinescu, Dan (2017) Cloud Computing Theory and Practice (2nd Ed.)

REFERENCES
NA

	Course Assessment Methods		
No	Assessment Method	Due Week	% of Total Assessment
1	Quiz	4	10
2	Assignment	9	10
3	Midterm	7	20
4	Project / Lab Exam	11	20
5	Final Exam	13	40