SYLLABUS

IS1330: Fundamentals of Data Networks

CREDIT HOURS	4 credit hours (Lectures: 4)		PREREQUISITE	CS1222 – Operating Systems

Instructor:
Contact information and office hours

Office No: To be announced (TBA)

Office Hours: TBA

E-mail: _____ **@imamu.edu.sa**

COURSE DESCRIPTION

The aim of this course is to introduce students the knowledge of the processes, methods, techniques and tool that organizations use to manage their information systems data networks needs along with different related methods, techniques and tools.

	COURSE LEARNING OUTCOMES (CLOs)	Aligned SOs
1	**Knowledge and Understanding**	
1.1	Recognize the fundamental definitions and terminology of data computer networks	1(P)
1.2	Define the layered architecture of data computer networks and its components, protocols and data units.	1(P)
1.3		
1.4		
1.5		
2	**Skills :**	
2.1		
2.2		
2.3		

2.4		
2.5		
3	**Values:**	
3.1	Be able to function in a professional manner to accomplish a technical goal.	5(P)
3.2		
3.3		
3.4		
3.5		

TEACHING Strategies
Lectures Self-Learning

No	List of Topics	Contact Hours	Self-Learning
1	Chapter 1: Introduction to Computer Network Fundamentals	4	2
2	Chapter 2: Network layered Architecture	4	2
3	Chapter 3: Application layer	4	2
4	Chapter 4: Transport layer	6	
5	Chapter 5: Network Layer	6	
6	Chapter 6: Data Link Layer	6	
7	Chapter 7: IP addressing and classes	6	2
8	Chapter 8: Software-Defined networks	6	
9	Project Discussions	6	
10			
11			
12			
	Total	**48**	**8**

TEXT BOOK
Computer Networking: A Top-Down Approach 8th edition Jim Kurose, Keith Ross Pearson, 2020.

REFERENCES
N/A

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