



KINGDOM OF SAUDI ARABIA
IMAM MOHAMMAD IBN SAUD ISLAMIC UNIVERSITY
COLLEGE OF COMPUTER AND INFORMATION SCIENCES
INFORMATION SYSTEMS DEPARTMENT
BACHELOR IN INFORMATION SYSTEMS

المملكة العربية السعودية
جامعة الإمام محمد بن سعود الإسلامية
كلية علوم الحاسب والمعلومات
قسم نظم المعلومات
بكالوريوس نظم المعلومات

SYLLABUS

IS1240: IT Infrastructure

CREDIT HOURS	3 credit hours (Lectures: 3)	PREREQUISITE	CS1222 – Operating Systems
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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 IT infrastructure issues to Information Systems students. It covers topics related to both computer and systems architecture and communication networks, with an overall focus on the services and capabilities that IT infrastructure solutions enable in an organizational context. It also aims to prepare the students for organizational roles that require interaction with external vendors of IT infrastructure components and solutions. The course focuses strongly on Internet-based solutions, computer and network security, business continuity, and the role of infrastructure in regulatory compliance.

COURSE LEARNING OUTCOMES (CLOs)		Aligned SOs
1	Knowledge and Understanding	
1.1	Recognize the fundamental definitions and terminology of IT infrastructure.	1(I)
1.2	Define the technologies, processes, and methodologies of IT infrastructure.	1(I)



1.3		
1.4		
1.5		
2	Skills :	
2.1	Interpret the importance of different components of IT infrastructure	1(P)
2.2	Develop the design of a working IT infrastructure	2(P)
2.3	Apply the IT infrastructure tools and techniques.	2(I)
2.4		
2.5		
3	Values:	
3.1		
3.2		
3.3		
3.4		
3.5		

TEACHING Strategies
Lectures
Self-Learning

No	List of Topics	Contact Hours	Self-Learning
1	Chapter 1: The Definition of IT Infrastructure	3	
2	Chapter 2: The Infrastructure Model	3	2
3	Chapter 3: Introduction to Non-functional Attributes	2	
4	Chapter 4: Availability Concepts	6	2
5	Chapter 5: Performance Concepts	6	2
6	Chapter 6: Security Patterns	4	
7	Chapter 7: Datacenters	6	
8	Chapter 8: Networking	3	
9	Project Discussions	3	
10			
11			
12			
Total		36	6

TEXT BOOK
S. Laan. IT infrastructure Architecture – Infrastructure Building Blocks and Concepts, Third Edition, 2017. ISBN 978-1-291-25079-5.



REFERENCES

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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