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

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

SYLLABUS

Course Code: IS6133   Course Name: IT Infrastructure

CREDIT HOURS	4

PREREQUISITE	None

Instructor:
Contact information and office hours

Office No: To be announced (TBA)

Office Hours: TBA

E-mail: _____ @imamu.edu.sa

COURSE DESCRIPTION

IT infrastructure subject is describing all hardware and software components needed to run IT applications. And infrastructure architecture describes the overall design of that infrastructure. This subject explains how infrastructure components work on an architectural level. It does not provide in- depth details needed by technicians, but describes the main architectural building blocks and concepts. IT infrastructures are complex by nature and provide non-functional qualities like performance, availability, and security to applications. This subject describes each infrastructure component and their specific performance, availability, and security concepts.

COURSE LEARNING OUTCOMES (CLOs)		Aligned SOs
1	**Knowledge and Understanding**	
1.1	Describe managerial issues and technologies related to interoperability.	K1
1.2	Distinguish between open standards and proprietary solutions.	K2

1.3	Review the product strategies of major hardware, software, and telecommunications vendors.	K3
1.4	Describe how national and global organizations influence architectural standards, regulations, and future developments.	K2
1.5	Outline the integration of enterprise systems with inter-organizational partners such as suppliers, government, etc.	K1
2	**Skills :**	
2.1	Implement security and disaster recovery plans after their development to ensure business continuity from an overall organizational perspective.	S2
3	**Values:**	
3.1	Write course project reports abiding all ethical standards using leadership and management talents.	V2
3.2	Demonstrate Professionalism and responsibility for maximum impact to achieve desired goal.	V1

TEACHING Strategies

Class lectures, Assignment, Project explanation session.

No	List of Topics	Contact Hours	Self-Learning
1	Introduction to IT Infrastructure	4	
2	Service Delivery Process	8	
3	Service Support Management	4	
4	Availability Concepts	4	
5	Performance	4	
6	IT Security	4	
7	Data Centers and Storage	4	
8	ITIL	4	
9	Project presentations	4	
	Total	40	

TEXT BOOK
IT Infrastructure Architecture: Infrastructure Building Blocks and Concepts, By Sjaak Laan (2011)
IT Infrastructure and Management by Manoj Kumar Choubey (2012). Pearson Education.
ISBN: 9788131767214

REFERENCES

No	Course Assessment Methods		
	Assessment Method	**Due Week**	**% of Total Assessment**
1	**Quizzes**	3	10
2	**Assignments**	5	10
3	**Midterm**	8	20
4	**Project**	10	20
5	**Final Exam**	11	40