Course Specification
(Bachelor)

Course Title:	Enterprise Architecture
Course Code:	IS1310
Program:	Bachelor in Information Systems
Department:	Information systems
College:	College of Computer and Information Sciences
Institution:	Imam Mohammad Ibn Saud Islamic University
Version:	2
Last Revision Date:	July 13th, 2025

Approved: 24/08/2025

Table of Contents

A. General information about the course:

1. Course Identification

1. Credit hours: 3 credit hours (lectures:3)					
3					
2. Course type					
A.	☐University	☐College	☒ Department	☐Track	☐Others
B.	☒ Required		☐ Elective		
3. Level/year at which this course is offered: Fourth Year					
4. Course general Description:					
This course explores the design, selection, implementation and management of enterprise IT solutions. The focus is on applications and infrastructure and their fit with the business. Students learn frameworks and strategies for infrastructure management, system administration, data/information architecture, content management, distributed computing, middleware, legacy system integration, system consolidation, software selection, total cost of ownership calculation, IT investment analysis, and emerging technologies. These topics are addressed both within and beyond the organization, with attention paid to managing risk and security within audit and compliance standards.					
5. Pre-requirements for this course (if any)**:**					
IS1241 Principles of Project Management					
6. Co-requisites for this course (if any)**:**					
IS Project Management					
7. Course Main Objective(s):					
The target of the course is to introduce concepts related to Enterprise Architecture (EA). In this context, issues like EA technologies, activities performed during implementation of EA systems will be discussed. Students also hone their ability to communicate technology architecture strategies concisely to a general business audience.					

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	3 hours/week	100%
2	E-learning		
3	Hybrid • Traditional classroom		

No	Mode of Instruction	Contact Hours	Percentage
	• E-learning		
4	Distance learning		

3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	**Lectures**	45
2.	**Laboratory/Studio**	Not Applicable
3.	**Field**	Not Applicable
4.	**Tutorial**	Not Applicable
5.	**Others (specify)**	Not Applicable
Total		45

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	**Knowledge and understanding**			
1.1	Recognize the fundamental concepts and value of Enterprise Architecture and its role in organizations.	K1(P)	Class Lectures	*Quiz 1, Quiz 2, Midterm, Final*
1.2	Demonstrate understanding of the security, privacy, and governance concerns in developing and maintaining EA.	K2(I)	*Class Lectures, Self-learning, Discussions*	*Midterm, Final*
1.3	Comprehend major EA frameworks, components, documentation processes, and their application in enterprise contexts.	K3(I)	*Class Lectures, Self-learning*	*Final*
2.0	**Skills**			

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
2.1	Interpret organizational needs and translate them into EA system requirements and framework selection; then summarize current techniques, skills and tools necessary for developing EA.	*S1(P), S2(P), S4(I)*	*Class Lectures, Case studies*	*Assignment 1, Assignment 2*
2.2	Analyze EA's impact on business, security, and IT alignment at local and global levels.	S3(I)	*Class Lectures, Discussions*	*Project (Report)*
3.0	**Values, autonomy, and responsibility**			
3.1	*Work effectively in groups and exercise leadership when appropriate*	V1(I)	Class Discussion, Lecture	*Project Presentation*
3.2	*Communicate effectively in oral and written form*	V3(I)	*Lecture*	*Project Presentation*
...				

C. Course Content

No	List of Topics	Contact Hours
1.	Introduction to Enterprise Architecture	*6*
2.	Value / Risk of Creating an Enterprise Architecture	*4*
3	**EA Frameworks	*4*
4	The Implementation Methodology	*8*
5	EA Documentation Process	*5*
6	EA Components and Artifacts	*5*
7	Building and Maintaining EA	*5*
8	The Role of Security and Privacy	*5*
9	Project Discussions	*3*
Total		**45**

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Quiz	4,11	10%
2.	Midterm Exam	8	20%
3.	Assignment	7	10%
4	Group Project	15	20%
5	Final Exam	16	40%

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.).

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	An Introduction to Enterprise Architecture: Third Edition Paperback – August 13, 2012, by Scott A.Bernard.
Supportive References	N/A
Electronic Materials	N/A
Other Learning Materials	N/A

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	1. At least 30 seats 2. A projector connected to a PC preferably with Internet connection 3. Sliding board
Technology equipment (projector, smart board, software)	
Other equipment (depending on the nature of the specialty)	N/A

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students	Indirect using course evaluation survey
Effectiveness of Students assessment	Faculty members	Direct method using TOS file

Assessment Areas/Issues	Assessor	Assessment Methods
Quality of learning resources	Students and Faculty	Indirect using course evaluation survey and faculty survey
The extent to which CLOs have been achieved	Faculty members	Direct method using TOS file
Other		

Assessors (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)

Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	IS CURRICULUM APPROVAL & DEVELOPMENT COMMITTEE IS QAC / / IS COUNCIL
REFERENCE NO.	
DATE	