هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission

T-104
2022

Course Specification

Course Title:	**Enterprise Architecture**
Course Code:	**IS1767**
Program:	**Computer Information Systems**
Department:	**Computer Information Systems**
College:	**Computer Science and Information Technology**
Institution:	**Al-Baha University**
Version:	**T-104 V2**
Last Revision Date:	**27 March 2023**

Table of Contents:

A. General information about the course:

Course Identification					
1. Credit hours:	3 Credit Hours (3, 0, 0) (Lecture, Lab, Tutorial) (3 Contact Hours)				
2. Course type					
a.	University ☐	College ☐	Department☒	Track☐	Others☐
b.	Required ☐	Elective☒			
3. Level/year at which this course is offered:	**Elective course (12th Level/ 4th Year)**				
4. Course general Description This course explores the design, selection, implementation and management of enterprise IT solutions. The theoretical and practical issues related to the application of enterprise systems within organizations. The focus is on applications and infrastructure and their fit with the business needs and strategies. Students learn frameworks and strategies for infrastructure management, system administration, data/information architecture, integration of information and organizational processes across functional areas with a unified system comprised of a single database and shared reporting tools, content management, distributed computing, middleware, legacy system integration, system consolidation, software selection, total cost of ownership calculation, IT investment analysis, and emerging technologies. The motivations for building and supporting enterprise systems, benefits and uses.					
5. Pre-requirements for this course (if any): IS1504 - IS Project Management					
6. Co- requirements for this course (if any): None					
7. Course Main Objective(s) **The main objective of this course is to further develop students' Enterprise Systems and Architecture skills that enable them to be proficient in Information Systems, describe the enterprise architecture - culture, recognize the value of IT risks and security failure, use the development and implementation methodologies and different kinds of enterprise systems, apply the management and investment plan and enterprise systems to help an organization reach its goals, apply the uses of enterprise systems, supporting Tools, budget, recognize management and investment plan and enterprise systems help an organization reach its goals and interact in groups collaboratively. Finally organizational structure, strategic planning, goal setting, corporate social responsibility, international arena, changing market intermediaries, resource allocation and customer service. The value of this course goes beyond to assist organizations for achieving IT cost effectiveness and also enhance operational efficiency with current capabilities by optimal alignment of business requirements with business strategies and needs.**					

1. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1.	Traditional classroom	30	100%
2.	E-learning		
3.	Hybrid • Traditional classroom • E-learning		
4.	Distance learning		

2. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	30
2.	Laboratory/Studio	0
3.	Field	0
4.	Tutorial	10
5.	Others (specify):	0
	Total	30

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	Describe the enterprise architecture	K1	• Lectures • Assignments	• Quiz • Midterm • Final exam
1.2	Recognize the value of IT risks and security failure	K2		
1.3	Use the development and implementation methodologies and different kinds of enterprise systems	K3		
2.0	Skills			
2.1	Apply the management and investment plan and enterprise systems to help an organization reach its goals	S1	• Lectures • Class discussions • Tutorial of ArchiMate	• Quiz • Midterm • Final exam • Tutorial
2.2	Apply the uses of enterprise systems, Supporting Tools	S2		
2.3	Recognize management and investment plan and enterprise systems to help an organization reach its goals	S3		
3.0	Values, autonomy, and responsibility			
3.1	Participate in groups collaboratively	V1	• Group participation	• Group presentation

C. Course Content

No	List of Topics	Contact Hours
1.	Overview of Enterprise Architecture and its importance	3
2.	The business and IT from the lens of Enterprise Architecture	3
3.	Enterprise Architecture and its Supporting Tools	3
4.	Structure and Culture of Enterprises, Role of the CIO	3
5.	Enterprise Architecture in real life case studies	3
6.	The value and risks of creating an Enterprise Architecture and IT Project Failure: Reasons, Technology Disruptors	3
7.	Software Development and Implementation Methodology	3
8.	Components and Artifacts of an Enterprise Architecture	3
9.	Developing a Current and Future Architecture View	3
10.	Developing an Enterprise Architecture Management and Resource Plan	3

Total		30

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Midterm Exam	5 or 6	20%
2.	Quiz	8 or 9	10%
3.	Report and presentation of a real-life EA case study and its development using EA tool such as ArchiMate	10	10%
4.	Final Exam	13	60%
...			

*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 Scott A. Bernard Author House, 2012 ISBN 978-1-4772-5800-2 (sc), ISBN: 978-1-4772-5801-9 (e) • Decoding the IT Value Problem: An Executive Guide for Achieving Optimal ROI on Critical IT Investments by Gregory J. Fell ISBN: 978-1-118-43805-3 Hardcover 208 pages September 2013, Wiley
Supportive References	• NORA: National Overall Enterprise Architecture (https://dga.gov.sa/en/programs/nea/nois) • TOGAF: The Open Group Architecture Framework (https://www.opengroup.org/togaf)
Electronic Materials	- Access to the Saudi Digital Library (SDL). - https://publications.opengroup.org/c226
Other Learning Materials	• ARCHIMATE® 3.2 SPECIFICATION

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Each classroom size is equipped with 20-25 seats which are more than enough to accommodate registered students
Technology equipment (projector, smart board, software)	Classrooms with smart boards and Desktops with genuine Operating systems and Anti-virus Smart Podiums
Other equipment (depending on the nature of the specialty)	Needed Internet facility to explain real time examples and students should have access to online EA tools such as ArchiMate for practices.

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of Teaching	•Students •Faculty •Peer Reviewers •Program Leader •Course Coordinator	•Surveys (indirect). •Direct feedback from students. •Course evaluation by Peer Reviewers (indirect). •Class visit by Program Leader (indirect) •Comprehensive Course report (where information about teaching difficulties and action plan is highlighted, …)
Effectiveness of Assessment	•Students •Faculty •Peer Reviewers •Exam Evaluation Committee •Course Coordinator	•Surveys (indirect). •Direct feedback from students. •Course evaluation by Peer Reviewers (indirect). •Exam evaluation by the Exam Evaluation Committee (indirect)
Extent of achievement of course learning outcomes.	•Faculty •Program Leader •Course Coordinator	•Student Results (direct) Comprehensive Course report (where information about teaching CLOs is highlighted)
Quality of learning resources	•Students •Faculty •Peer Reviewers •Course Coordinator	•Surveys (indirect) •Course evaluation by Peer Reviewers (indirect). •Comprehensive Course report (where we can find information about difficulties and challenges about learning resources as well as consequences and action plan, …)
Other		

Assessor (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)
Assessment Methods (Direct, Indirect)

G. Specification Approval Data

COUNCIL /COMMITTEE	Curriculum Committee Meeting
REFERENCE NO.	
DATE	March 28, 2023