



T-104  
2022

## Course Specification



Course Title: <b>IT Enterprise Architecture</b>
Course Code: <b>IT1756</b>
Program: Information Technology
Department: Information Technology
College: Computer Science and Information Technology
Institution: Albaha University
Version: <b>New</b>
Last Revision Date: 1 April 2023



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## A. General information about the course:

Course Identification	
1. Credit hours:	3
2. Course type	
a.	University <input type="checkbox"/> College <input type="checkbox"/> Department <input checked="" type="checkbox"/> Track <input type="checkbox"/> Others <input type="checkbox"/>
b.	Required <input checked="" type="checkbox"/> Elective <input type="checkbox"/>
3. Level/year at which this course is offered:	12
4. Course general Description	
<p>The Enterprise Architecture (EA) course introduces students to the concepts of EA and demonstrates how IT and management views can be unified into a single approach to support Digital Transformation. The course covers appropriate international and industry standards, including Architecture Frameworks, Enterprise Modelling Frameworks and Languages, Reference Models and Methodologies. Also, the course support analyzing numerous new business models through case studies and answer the questions of how to achieve a balanced relationship between business, technology and organization. Student learning is supported by practical enterprise modelling assignments, using state of the art modelling tools.</p>	
5. Pre-requirements for this course (if any):	
Fundamental of Digital Transformation	
6. Co- requirements for this course (if any):	
None	
7. Course Main Objective(s)	
<ul style="list-style-type: none"> <li>• Introduce students to the concept of Enterprise Architecture (EA) and digital transformation.</li> <li>• Develop an understanding of how business and information technology cooperate.</li> <li>• Provide a comprehensive understanding of various Enterprise Architecture Frameworks, modeling, practices, and reference architecture.</li> <li>• Introduce enterprise architecting methodologies and shows how these contribute to asses current and improving future states for organization practices.</li> </ul>	

### 1. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1.	Traditional classroom	None	None
2.	E-learning	12	27%
3.	Hybrid <ul style="list-style-type: none"> <li>• Traditional classroom</li> <li>• E-learning</li> </ul>	33	73%
4.	Distance learning	None	None





## 2. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	33
2.	Laboratory/Studio	0
3.	Field	0
4.	Tutorial	0
5.	Others (specify)	12
	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	Ability to understand and discuss different EA concepts, business model and strategic analysis.	M : K1	<ul style="list-style-type: none"> <li>Lectures</li> <li>Assignments</li> </ul>	<ul style="list-style-type: none"> <li>Midterm Exam</li> <li>Case study analysis</li> <li>Quiz</li> <li>Final Exam</li> </ul>
1.2	Translate business architecture to practical solution through transition plan using role of transformed business architecture.	M: K2		
1.3	Define the roles of stakeholder entities, tasks, functions, processes in the architectural change transformation.	M: K1		
2.0	Skills			
2.1	Determine the role of EA processes, modelling, standards for better Business IT solutions.	P: S5	<ul style="list-style-type: none"> <li>Lectures</li> <li>Assignments</li> <li>Class discussion</li> </ul>	<ul style="list-style-type: none"> <li>Midterm Exam</li> <li>Case study analysis</li> <li>Quiz</li> <li>Final Exam</li> </ul>
2.2	Evaluate and compare Solution Architectures against the requirements of the desired business model.	P: S3		
2.3	Improve organizational business and IT solution and project management activities.	M: S2		
3.0	Values, autonomy, and responsibility			
3.1	Recognize values from EA practices upon business and IT transformations.	P:V2	<ul style="list-style-type: none"> <li>Smaller group</li> </ul>	<ul style="list-style-type: none"> <li>Presentation</li> </ul>

## C. Course Content

No	List of Topics	Contact Hours
1.	Introduction and concepts of Enterprise Architecture	3
2.	Role of Enterprise Architecture and business IT alignment	6
3	Enterprise Architecture components and context	3
4	Enterprise Architecture frameworks, standards, taxonomy	6
5	Enterprise Architecture methodologies, practices and functions	6



6	Enterprise Architecture management and resource plan	3
7	Enterprise Architecture lifecycle, modelling and maturity	6
Total		33

## D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Midterm Exam	5 or 6	30%
2.	Case study analysis, Report, Seminar	10	15%
3.	Quiz	9	5%
4.	Final Exam	13	50%

\*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	Kotusev, S. (2018). The practice of enterprise architecture: A modern approach to business and IT alignment. Sk Publishing.
Supportive 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)
Electronic Materials	- Access to the Saudi Digital Library (SDL). - ACM (Association for Computer Machinery) web site - <a href="http://www.acm.org/">http://www.acm.org/</a> - ACM SIGART (Special Interest Group on Computer Architecture) - <a href="http://www.sigarch.org/">http://www.sigarch.org/</a> - IEEE Computer Society web site - <a href="http://www.computer.org/portal/web/guest/home">http://www.computer.org/portal/web/guest/home</a> - Open access course material online
Other Learning Materials	None

### 2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Each class room size is provided with 20-25 seats which are more enough to accommodate registered students.
Technology equipment (projector, smart board, software)	- Class room with smart boards Desk tops 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 by on line.

## F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	<ul style="list-style-type: none"> <li>Students</li> <li>Faculty</li> <li>Peer Reviewers</li> <li>Program Leader</li> <li>Course Coordinator</li> </ul>	<ul style="list-style-type: none"> <li>Surveys (indirect).</li> <li>Direct feedback from students.</li> <li>Course evaluation by Peer Reviewers (indirect).</li> <li>Class visits by Program Leader (indirect)</li> <li>Comprehensive Course report (where we can find information</li> </ul>



Assessment Areas/Issues	Assessor	Assessment Methods
		about teaching difficulties and action plan, ...)
Effectiveness of students assessment	<ul style="list-style-type: none"> <li>• Students</li> <li>• Faculty</li> <li>• Peer Reviewers</li> <li>• Program Leader</li> <li>• Course Coordinator</li> </ul>	<ul style="list-style-type: none"> <li>• Surveys (indirect).</li> <li>• Direct feedback from students.</li> <li>• Course evaluation by Peer Reviewers (indirect).</li> <li>• Class visits by Program Leader (indirect)</li> <li>• Exam evaluation by the Exam Evaluation Committee (indirect)</li> </ul>
Quality of learning resources	Students Faculty Peer Reviewers Course Coordinator	Surveys (indirect). Direct feedback from students. Course evaluation by Peer Reviewers (indirect). Class visits by Program Leader (indirect) Comprehensive Course report (where we can find information about teaching difficulties and action plan, ...)
The extent to which CLOs have been achieved	Faculty Program Leader Course Coordinator	Student Results (indirect). Comprehensive Course report (where we can find information about teaching difficulties and action plan, ...)
Other	None	

**Assessor** (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

**Assessment Methods** (Direct, Indirect)

## G. Specification Approval Data

COUNCIL /COMMITTEE	Information Technology department council
REFERENCE NO.	
DATE	

