



Course Specification of Enterprise Architecture

Course No (.....)

2020/2021

Head of Department	Vise Dean for Qulity Assurance	Dean of the Faculty	Dean of Development center and Quality Assurance
Assoc. Prof. Mansour N. Ali	Dr. Anwar Al-Shamiri	Dr. Nagi Al-Shibani	Assoc. Prof. Dr.Huda Al.Emad
Rector of Sana'a University			
Prof. Dr. Qassim Mohammed Abbas			



I. Course Identification and General Information:						
1	Course Title:	Enterprise Architecture				
2	Course Code & Number:					
3	Credit hours:	C.H				TOTAL
		Th.	Seminar	Pr	Tr.	
		3	-	-	-	3
4	Study level/ semester at which this course is offered:	3 rd Level-1 st semester				
5	Pre –requisite (if any):	IT Fundamentals/Computer Networks/IT Management				
6	Co –requisite (if any):	None				
7	Program (s) in which the course is offered:	Information Technology				
8	Language of teaching the course:	Arabic/English				
9	Study System	Term Based System				
10	Mode of delivery:	Full Time				
11	Location of teaching the course:	Faculty of computer science and technology, Sanaa University				
12	Prepared By:	Dr. Adnan Al-mutawkkil				
13	Date of Approval					

Head of Department	Vise Dean for Quality Assurance	Dean of the Faculty	Dean of Development center and Quality Assurance
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II. Course Description:

This Course presents the basic concepts and methodologies for the discipline known as Enterprise Architecture within a framework, structure, and methodology. It also introduces the fundamental principles of Enterprise System, types, modules, integration, technology, design architectures and current analysis and implementation aspects. Topics include, but not limited, basic principles of enterprise systems and the technology's history, Students will learn about comprehensive knowledge and best practices for managing enterprise systems including system integration (e.g. Enterprise Resource Planning (ERP) systems), enterprise system architectures including cloud and Service Oriented Architecture (SOA) architectures, implementation strategies, operation post implementation, and success factors of enterprise systems, especially ERP systems.

III. Course Intended learning outcomes (CILOs) of the course (maximum 8CILOs)		Referenced PILOs (Only write code number of referenced Program Intended learning outcomes)
a.1	Define the fundamental principles, technology, and current implementation success factors of enterprise systems, especially ERP.	A1, A2
a.2	Describe the components of enterprise architecture and system.	A4
b.1	Analyze the business process and gap analysis according to enterprise architecture and business needs of an organization.	B1, B2, B3
b.2	Select a suitable enterprise system among different vendors and recommend the right enterprise architecture platform based on the	B4

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	results of gap analysis and requirement analysis of an organization.	
c.1	Implement and customize business models to fulfill the business needs of organizations.	C1, C3, C5
c.2	Use the technology evaluation tools to evaluate gap analysis of business process and select an enterprise system according to the requirements of organization's environment.	C2
d.1	Cope with modern technologies, tools and standards to improve organization performance.	D6
d.2	Effectively communicate, leadership management, team cooperation, labor division and moderate the integration of ability.	D2

(A) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies:

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
a1- Define the fundamental principles, technology, and current implementation success factors of enterprise systems, especially ERP.	Lecture, Discussion method, homework	Assignments/ quizzes, Exam
a2- Describe the components of enterprise architecture and system.	Lecture, Discussion Method, homework	Assignments/ quizzes, Exam

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(B) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
b1- Analyze the business process and gap analysis according to enterprise architecture and business needs of an organization.	Lecture, Discussion method, homework, student-led seminars, and assignments	Assignments/ Quizzes, Exam
b2- Select a suitable enterprise system among different vendors and recommend the right enterprise architecture platform based on the results of gap analysis and requirement analysis of an organization.	Lecture, Discussion method, homework, student-led seminars, and assignments	Assignments/ Quizzes, Exam

(C) Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
c1- Implement and customize business models to fulfill the business needs of organizations.	Lecture, Small work groups, homework and practical assignments.	Group Project and oral presentation, Exam
c2- Use the technology evaluation tools to evaluate gap analysis of business process and select an enterprise system according to the requirements of organization's environment.	Lecture, Small work groups, homework and practical assignments.	Group Project and oral presentation, Quiz, Exam

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(D) Alignment Course Intended Learning Outcomes of Transferable Skills to Teaching Strategies and Assessment Strategies:

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
d1- Cope with modern technologies, tools and standards to improve organization performance.	Small work groups and assignments.	Group Project and oral presentation
d2- Effectively communicate, leadership management, team cooperation, labor division and moderate the integration of ability.	Small work group and assignments.	Group Project and oral presentation

IV. Course Content:

A – Theoretical Aspect:

Order	Units/Topics List	Learning Outcomes	Sub Topics List	Number of Weeks	contact hours
1	INTRODUCTION TO ENTERPRISE ARCHITECTURE	a1, a2, b1, b2, c1, d1	<ul style="list-style-type: none"> - What Enterprise Architecture is and why it is important - The relationship between vision, strategy and architecture - Enterprise architectural IT frameworks 	1	3

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2	ENTERPRISE IT ARCHITECTURES	a1, a2, b1, b2, c1, d1	<ul style="list-style-type: none"> - The elements of an enterprise IT architecture - Methodologies of developing an enterprise architecture - Address the challenges facing enterprise architects 	1	3
3	ENTERPRISE SYSTEMS FOR MANAGEMENT	a1, a2, b1, b2, c1, d1	<ul style="list-style-type: none"> - Enterprise systems in Organizations - Enterprise Resource Planning Systems - ERP Implementation - People and Organization - ERP Vendors 	1	3
4	SYSTEMS INTEGRATION	a1, a2, b1, b2, c1, d1	<ul style="list-style-type: none"> - Functional Silos - Business Process and Silos - Evolution of IS in Organizations - Systems Integration - ERP and Systems Integration - Implications for Management 	1	3
5	ENTERPRISE SYSTEMS ARCHITECTURE	a1, a2, b1, b2, c1, c2, d1	<ul style="list-style-type: none"> - ERP Modules - ERP Architecture 	1	3
6	DEVELOPMENT LIFE CYCLE	a1, a2, b1, b2, c1, d1	<ul style="list-style-type: none"> - Systems Development Life Cycle - ERP Implementation Life Cycle 	1	3

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			<ul style="list-style-type: none"> - Project Management - Project Roles and Responsibilities 		
7	IMPLEMENTATION STRATEGIES	a a1, a2, b1, b2, c1, c2, d1, d2	<ul style="list-style-type: none"> - ERP Components - ERP and Virtualization - Third-Party Products - Database Requirements - ERP Implementation Organization and Approaches - ERP Implementation Examples - Platform Issues 	1	3
8	SOFTWARE AND VENDOR SELECTION	a1, a2, b1, b2, c1, c2, d2	<ul style="list-style-type: none"> - Vendor Research - Matching User Requirements to Features - Request for Bids - Vendor Analysis and Elimination - Contract Management and License Agreements 	1	3
9	OPERATIONS AND POSTIMPLEMENTATION	a1, a2, b1, b2, c1, c2, d1	<ul style="list-style-type: none"> - Go-Live Readiness - ERP Training - Stabilization - Postproduction Support - Knowledge Transfer 	1	3
10	ENTERPRISE SYSTEM AND PROJECT MANAGEMENT	a1, a2, b1, b2, c1, c2, d1, d2	<ul style="list-style-type: none"> - Project Team - Module Experts and Subject Matter Experts - Project Leadership - Critical Success Factors 	1	3

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			- Managing Scope Creep		
11	ORGANIZATIONAL CHANGE AND BUSINESS PROCESS REENGINEERING	a1, a2, b1, b2, c1, c2, d2, d2	- Reason for Change - Organizational Commitment - Business Process Change - Business Process Management	1	3
12	SUPPLY CHAIN MANAGEMENT	a1, a2, b1, b2, c1, c2, d1, d2	- Supply Chain Management - e-Business and Supply Chain Management - Integration - RFID	1	3
13	CUSTOMER RELATIONSHIP MANAGEMENT	a1, a2, b1, b2, c1, c2, d1, d2	- What Is CRM? - Customer Relationship Processes - CRM Technology - CRM Life Cycle	1	3
14	ASSIGNMENT PRESENTATIONS	a1, a2, b1, b2, c1, c2, d1, d2	Assignment presentations	1	3
Number of Weeks /and Units Per Semester				14	42

B - Practical Aspect: (None)

Order	Tasks/ Experiments	Number of Weeks	contact hours	Learning Outcomes
1				

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2				
3				
Number of Weeks /and Units Per Semester				

V. Teaching strategies of the course:

Lecture
Discussion Method
Homework
Assignments
student-led seminars

VI. Assignments:

No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1	Draw business process flowcharts for a business model	a1, a2, b1, b2, c1	5 th	5

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2	Use an ERP Technology Evaluation tool to select an ERP system for an enterprise.	b2, c2, d2	10 th	5
3	Install ODOO or any other open source ERP system and apply it for an enterprise business functions. (Group work)	b1, c1, d1, d2	15 th	10
Total				20

VII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	5 th , 10 th and 15 th	20	%20	a1, a2, b1, b2, c1, c2, d1, d2
2	Quiz and homework	Weekly	10	%10	a1, a2, b1, b2, d1, d2
3	Mid Term Exam	6 th	10	%10	a1, a2, b1, b2, c1, c2
4	Final Exam	16 th	60	%60	a1, a2, b1, b2, c1, c2

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Total	100	100%	
VIII. Learning Resources:			
• <i>Written in the following order: (Author - Year of publication – Title – Edition – Place of publication – Publisher).</i>			
1- Required Textbook(s) (maximum two).			
	<div>1. Gopala Krishna Behara et al. (2015), , Enterprise Architecture: A Practitioner’s Handbook, USA, Meghan-Kiffer Press.</div> <div>2. Zaigham Mahmood (2013), Cloud Computing for Enterprise Architectures - Richard Hill Editors</div>		
2- Essential References.			
	<div>1. Thomas A. Limoncelli, Strata R. Chalup & Christina J. Hogan (2015), Practice of Cloud System Administration, The: Designing and Operating Large Distributed Systems, Pearson</div> <div>2. Practical Guide to Advanced Networking, A, 3/E, Jeffrey S. Beasley and Piyasat Nilkaew , New Mexico State University</div> <div>3. Luvai Motiwalla, Jeffrey Thompson (2011), Enterprise Systems for Management-Pearson, 2nd Edition, Pearson.</div> <div>4. Jeanne W. Ross et al. (2006), Enterprise Architecture as Strategy: Creating a Foundation for Business Execution, USA, Harvard Business Review Press.</div>		
3- Electronic Materials and Web Sites etc.			
	<div>1-https://www.opengroup.org/togaf</div> <div>2-https://www.w3schools.com/</div> <div>3-https://github.com/</div>		

IX. Course Policies:
Unless otherwise stated, the normal course administration policies and rules of the Faculty of Computer and Information Technology apply. For the policy, see: -----
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The University Regulations on academic misconduct will be strictly enforced. Please refer to ----- ----	
1	Class Attendance: A student should attend not less than 75 % of total hours of the subject; otherwise he will not be able to take the exam and will be considered as exam failure. If the student is absent due to illness, he/she should bring a proof statement from university Clinic
2	Tardy: For late in attending the class, the student will be initially notified. If he repeated lateness in attending class, he will be considered as absent.
3	Exam Attendance/Punctuality: A student should attend the exam on time. He is Permitted to attend an exam half one hour from exam beginning, after that he/she will not be permitted to take the exam and he/she will be considered as absent in exam.
4	Assignments & Project The assignment is given to the students after each chapter; the student has to submit all the assignments for checking on time.
5	Cheating: For cheating in exam, a student will be considered as fail. In case the cheating is repeated three times during his/her study the student will be disengaged from the Faculty.
6	Plagiarism: Plagiarism is the attending of a student the exam of a course instead of another student. If the examination committee proofed a plagiarism of a student, he will be disengaged from the Faculty. The final disengagement of the student from the Faculty should be confirmed from the Student Council Affair of the university.
7	Other policies: <ul style="list-style-type: none"> - Mobile phones are not allowed to use during a class lecture. It must be closed, otherwise the student will be asked to leave the lecture room - Mobile phones are not allowed in class during the examination. - Lecture notes and assignments my given directly to students using soft or hard copy

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Faculty of Computer & Information Technology

Department of Information System

Program of Information System

Course syllabus of Enterprise Architecture

Course No (.....)

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2020/2021

I. - Information about Faculty Member Responsible for the Course:							
Name of Faculty Member		Office Hours					
Location & Telephone No.		SAT	SUN	MON	TUE	WED	THU
E-mail							

II. Course Identification and General Information:						
1-	Course Title:	Enterprise Architecture				
2-	Course Number & Code:	IT316				
3-	Credit hours:	C.H				Total
		Th.	Seminar	Pr.	F. Tr.	
		3	-	-	-	3
4-	Study level/year at which this course is offered:	3 rd Level- 1 st semester				
5-	Pre –requisite (if any):	IT Fundamentals/Computer Networks/IT Management				

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6-	Co –requisite (if any):	None
7-	Program (s) in which the course is offered	Information Technology
8-	Language of teaching the course:	Arabic/English
9-	System of Study:	Term Based System
10-	Mode of delivery:	Full Time
11-	Location of teaching the course:	Faculty of computer science and technology, Sanaa University

III. Course Description:

This Course presents the basic concepts and methodologies for the discipline known as Enterprise Architecture within a framework, structure, and methodology. It also introduces the fundamental principles of Enterprise System, types, modules, integration, technology, design architectures and current analysis and implementation aspects. Topics include, but not limited to, basic principles of enterprise systems and the technology's history. Students will learn about comprehensive knowledge and best practices for managing enterprise systems including system integration (e.g. Enterprise Resource Planning (ERP) systems), enterprise system architecture including cloud and Service Oriented Architecture (SOA) architectures, implementation strategies, operation post implementation, and success factors of enterprise systems, especially ERP systems.

IV. Intended learning outcomes (ILOs) of the course:

- Brief summary of the knowledge or skill the course is intended to develop:

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- 1- Define the fundamental principles, technology, and current implementation success factors of enterprise systems, especially ERP.
- 2- Describe the components of enterprise architecture and system.
- 3- Analyze the business process and gap analysis according to enterprise architecture and business needs of an organization.
- 4- Select a suitable enterprise system among different vendors and recommend the right enterprise architecture platform based on the results of gap analysis and requirement analysis of an organization.
- 5- Implement and customize business models to fulfill the business needs of organizations.
- 6- Use the technology evaluation tools to evaluate gap analysis of business process and select an enterprise system according to the requirements of organization's environment.
- 7- Cope with modern technologies, tools and standards to improve organization performance.
- 8- Effectively communicate, leadership management, team cooperation, labor division and moderate the integration of ability.

V. Course Content:

- Distribution of Semester Weekly Plan of Course Topics/Items and Activities.

A – Theoretical Aspect:

Order	Topics List	Week Due	Contact Hours
1	INTRODUCTION TO ENTERPRISE ARCHITECTURE	1 st	3
2	ENTERPRISE IT ARCHITECTURES	2 nd	3

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3	ENTERPRISE SYSTEMS FOR MANAGEMENT	3 th	3
4	SYSTEMS INTEGRATION	4 th	3
5	ENTERPRISE SYSTEMS ARCHITECTURE	5 th	3
6	MID TERM EXAM	6 th	3
7	DEVELOPMENT LIFE CYCLE	7 th	3
8	IMPLEMENTATION STRATEGIES	8 th	3
9	SOFTWARE AND VENDOR SELECTION	9 th	3
10	OPERATIONS AND POSTIMPLEMENTATION	10 th	3
11	ENTERPRISE SYSTEM AND PROJECT MANAGEMENT	11 th	3
12	ORGANIZATIONAL CHANGE AND BUSINESS PROCESS REENGINEERING	12 th	3
13	SUPPLY CHAIN MANAGEMENT	13 th	3
14	CUSTOMER RELATIONSHIP MANAGEMENT	14 th	3
15	ASSIGNMENT PRESENTATIONS	15 th	3
16	FINAL EXAM	16 th	3
Number of Weeks /and Units Per Semester		16	48

B – Practical Aspect: (None)

Order	Topics List	Week Due	Contact
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			Hours
1			
2			
3			
Number of Weeks /and Units Per Semester			

VI. Teaching strategies of the course:

Lecture
Discussion Method
Homework
Assignments
student-led seminars

VII. Assignments:

No	Assignments	Week Due	Mark
1	Draw business process flowcharts for a business model	5 th	5
2	Use an ERP Technology Evaluation tool to select an ERP system for an enterprise.	10 th	5
3	Install ODOO or any other open source ERP system and apply it for an enterprise business functions. (Group work)	15 th	10

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Total	20
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VIII. Schedule of Assessment Tasks for Students During the Semester:				
Assessment	Type of Assessment Tasks	Week Due	Mark	Proportion of Final Assessment
1	Assignments	5 th , 10 th , and 15 th	20	%20
2	Quiz and homework	Weekly	10	%10
3	Mid Term Exam	6 th	10	%10
4	Final Exam	16 th	60	%60
Total			100	100%

IX. Learning Resources:	
<ul style="list-style-type: none"> Written in the following order: (Author – Year of publication – Title – Edition – Place of publication – Publisher). 	
1- Required Textbook(s) (maximum two).	
<ol style="list-style-type: none"> Gopala Krishna Behara et al. (2015), , Enterprise Architecture: A Practitioner's Handbook, USA, Meghan-Kiffer Press. Zaigham Mahmood (2013), Cloud Computing for Enterprise Architectures - Richard Hill Editors 	
2- Essential References.	
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3- Electronic Materials and Web Sites etc.
<p>1. https://www.opengroup.org/togaf</p> <p>2. https://www.w3schools.com/</p> <p>3. https://github.com/</p>

X. Course Policies:	
<p>Unless otherwise stated, the normal course administration policies and rules of the Faculty of Computer and Information Technology apply. For the policy, see: -----</p> <p>--</p> <p>The University Regulations on academic misconduct will be strictly enforced. Please refer to -----</p> <p>----</p>	
1	<p>Class Attendance:</p> <p>A student should attend not less than 75 % of total hours of the subject; otherwise he will not be able to take the exam and will be considered as exam failure. If the student is absent due to illness, he/she should bring a proof statement from university Clinic</p>
2	<p>Tardy:</p> <p>For late in attending the class, the student will be initially notified. If he repeated lateness in attending class, he will be considered as absent.</p>
3	<p>Exam Attendance/Punctuality:</p> <p>A student should attend the exam on time. He is Permitted to attend an exam half one hour from exam beginning, after that he/she will not be permitted to take the exam and he/she will be considered as absent in exam.</p>
4	<p>Assignments & Project</p> <p>The assignment is given to the students after each chapter; the student has to submit all the assignments for checking on time.</p>
5	<p>Cheating:</p>

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اللجنة الإشرافية			
م.	الاسم	الصفة	التوقيع
١	أ.م.د. عبد الماجد الخليدي	نائب عميد الكلية للشؤون الأكاديمية	
٢	أ.م.د. احمد مجاهد	نائب عميد مركز التطوير الأكاديمي وضمان الجودة	
٣	د. حسين الأشول	ممثل المركز في الكلية	
٤	أ.د. إبراهيم المطاع	نائب رئيس الجامعة للشؤون الأكاديمية	

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