Course Specification of Graduation Project I & II

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
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وحدة ضمان الجودة

I. Course Identification and General Information:

1	**Course Title:**	Graduation Project **I & II**				
2	**Course Code & Number:**					
3	**Credit hours:**		C.H				TOTAL
			Th.	Seminar	Pr	Tr.	
4	**Study level/ semester at which this course is offered:**	*4th Year*				
5	**Pre –requisite (if any):**	*None*				
6	**Co –requisite (if any):**	*None*				
7	**Program (s) in which the course is offered:**	All programs				
8	**Language of teaching the course:**	English/Arabic				
9	**Study System**	Term Based system				
10	**Mode of delivery:**	Full time				
11	**Location of teaching the course:**	Faculty of Computer and Information Technology				
12	**Prepared By:**	Dr……				
13	**Date of Approval**					

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II.   Course Description:

This course focuses on the graduation project design stages. It provides students with the opportunity to engage in an activity that will allow them to demonstrate their ability to apply the knowledge and skills they have gained throughout their years in the educational system. At the end of this course, students must deliver a project with a major component that has passed through the design, analysis, implementation, testing, and evaluation stages.

III. Course Intended learning outcomes (CILOs) of the course (maximum 8CILOs)		Referenced PILOs (Only write code number of referenced Program Intended learning outcomes)
a1	Show understanding of the concepts of research, tools and methods of research	
a2	Identify problems, analyze, interpret, evaluate and provide evidence	
a3	Understand professional, ethical, legal, security, and social issues	
b1	Analyze a problem and define the computing requirements appropriate to its solution	
b2	Design a computer-based system, process, component, or program to meet desired needs	
b3	Use current techniques, skills, and tools necessary for computing practices.	
c1	Apply core knowledge areas of computer science and information systems to implement the project	

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c2	Develop a creative and original solutions to problems of significant complexity	
c3	Implement a computer-based system, process, component, or program to meet desired needs	
d1	Commit to professional, ethical, legal, security and social issues and responsibilities throughout project work	
d2	Communicate effectively with a range of audiences	

(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. Show understanding of the concepts of research, tools and methods of research	Supervised research, group discussion, seminars	Discussion, reporting
a2. Identify problems, analyze, interpret, evaluate and provide evidence	Supervised research, group discussion, seminars	Discussion, reporting
a3. Understand professional, ethical, legal, security, and social issues	Supervised research, group discussion, seminars	Discussion, reporting

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

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Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
b1. Analyze a problem, define the computing requirements appropriate to its solution	Supervised research, group discussion, seminars	Presentation, reports
b2. Design a computer-based system, process, component, or program to meet desired needs	Supervised research, group discussion, seminars	Discussion, reporting
b3. Use current techniques, skills, and tools necessary for computing practices.	Supervised research, group discussion, seminars	Discussion, reporting

(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. Apply core knowledge areas of computer science and information systems to implement the project	Supervised research, group discussion, seminars, Experiment	Presentation, reports
c2. Develop a creative and original solutions to problems of significant complexity	Supervised research, group discussion, seminars	Presentation, reports
c3. Implement a computer-based system, process, component, or program to meet desired needs	Supervised research, group discussion, seminars	Presentation, reports

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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. Commit to professional, ethical, legal, security and social issues and responsibilities throughout project work	Supervised research, group discussion, seminars	discussion, reporting
d2. Communicate effectively with a range of audiences	Supervised research, group discussion, seminars	Presentation, discussion

IV. Course Content:

A – Theoretical Aspect:

Order	Units/Topics List	Learning Outcomes	Sub Topics List	Number of Weeks	contact hours
1	Project initiation and proposal	a1,a2,a3, d1,d2	- Purpose of the Project - Problem Definition - Scope - Objectives - Existing Systems - Documentation	4	12
2	Presentation	a1,a2,d2	- First Milestone presentation	1	3
3	System Analysis	a1,a2,b1,b3	- Data Modeling Diagrams - System Requirements - Proposed Solutions - Alternative Solutions - Costs and Benefits - Documentation	4	12

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4	Presentation	a1,d1,d2	- Second Milestone presentation	1	3
5	Methodology	a1,a2,b1,b2, b3	- Design Constraints - Architectural Strategies, algorithms, tools - Project Management - Development Method - Plans - Documentation	4	12
6	Presentation	d1,d2	- Third Milestone presentation	1	3
	Evaluation (Stage 1)	a1,d1,d2	- Project evaluation through a committee	1	3
7	System Design	a1,a2,b1,b2, b3,	- System Architecture and Program Flow - Database design - System Modules - User Interface Design - Documentation	4	12
8	Presentation	a1,d1,d2	- Forth Milestone presentation	1	3
9	Implementation	a1,a2,b3, c1,c2,c3	- System Implementation Preparations - System Development Languages and Environments - System Programming (Data Structures , Modules Programming , Components Integration , Interface Programming - Documentation	4	12
10	Presentation	a1,d1,d2	- Fifth Milestone presentation	1	3
11	System Testing and Validation	a2,b1,b3	- Test Approach - Test Plan	3	9

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			- Testing Tools and Environment - Test Cases - Test Procedure - Documentation		
12	Documentation	a1,a3,d1	Prepare the final formal document	2	6
13	Final Evaluation	a1,d1,d2	Evaluate the Second Stage of the Project	1	3
Number of Weeks /and Units Per Semester				32	96

B - Practical Aspect: (if any)				
Order	**Tasks/ Experiments**	**Number of Weeks**	**contact hours**	**Learning Outcomes**
Number of Weeks /and Units Per Semester				

V. Teaching strategies of the course:

Supervised Research, Group Discussion, Experiment, Seminars

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VI. Assignments:

No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
2	NA			

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	Milestone presentations	5th, 10th, 15th, 21st, 26th	20	20	a1,d1,d2
2	Pre- Evaluation presentation	16th	30	30	a1,d1,d2
3	Documentation	31st	20	20	a1,a3,d1
4	Final evaluation presentation	32nd	30	30	a1,d1,d2
	Total		100	100%	

VIII. Learning Resources:

- *Written in the following order: (Author - Year of publication – Title – Edition – Place of publication – Publisher).*

1- Required Textbook(s) (maximum two).

	1. Paul d. leedy , Jeanne ellis ormrod , 2016, Practical Research Planning and design, Pearson

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	2. Chinelo Igwenagu, Chinelo Igwenagu, 2016 , Fundamentals of research methodology and data collection 3. Clements,(1999). Successful Project Management, Gido, Jack & James P. International Thompson Publishing 4. `Fatima Awad Saber, Mervat Khafajah,(2002), Foundations and principles of scientific research, Libraryandtechnical Al-esha'aPress. Alexandria.

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: ----------------------------------- 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.

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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:** - 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 Graduation Project I & II

Course No (...................)

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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:**	Graduation Project I&2				
2-	**Course Number & Code:**					
3-	**Credit hours:**	**C.H**				**Total**
		Th.	**Seminar**	**Pr.**	**F. Tr.**	
		3				3
4-	**Study level/year at which this course is offered:**	*4th Year*				
5-	**Pre –requisite (if any):**	None				
6-	**Co –requisite (if any):**	None				
7-	**Program (s) in which the course is offered**	All programs				
8-	**Language of teaching the course:**	English/Arabic				
9-	**System of Study:**	Term based system				
10-	**Mode of delivery:**	Full time				

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11-	**Location of teaching the course:**	Faculty of Computer and Information Technology

III. Course Description:

This course focuses on the graduation project design stages. It provides students with the opportunity to engage in an activity that will allow them to demonstrate their ability to apply the knowledge and skills they have gained throughout their years in the educational system. At the end of this course, students must deliver a project with a major component that has passed through the design, analysis, implementation, testing, and evaluation stages.

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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a1	Show understanding of the concepts of research, tools and methods of research
a2	Identify problems, analyze, interpret, evaluate and provide evidence
a3	Understand professional, ethical, legal, security, and social issues
b1	Analyze a problem and define the computing requirements appropriate to its solution
b2	Design a computer-based system, process, component, or program to meet desired needs
b3	Use current techniques, skills, and tools necessary for computing practices.
c1	Apply core knowledge areas of computer science and information systems to implement the project
c2	Develop a creative and original solutions to problems of significant complexity
c3	Implement a computer-based system, process, component, or program to meet desired needs
d1	Commit to professional, ethical, legal, security and social issues and responsibilities throughout **project work**
d2	Communicate effectively with a range of audiences

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	Project initiation and proposal - Purpose of the Project - Problem Definition	4th	12

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	- Scope - Objectives - Existing Systems - Documentation		
2	Presentation	5th	3
3	System Analysis - Data Modeling Diagrams - System Requirements - Proposed Solutions - Alternative Solutions - Costs and Benefits - Documentation	9th	12
4	Presentation	10th	3
5	Research Methodology - Design Constraints - Architectural Strategies, algorithms, tools - Project Management - Development Method - Plans - Documentation	14th	12
6	Presentation	15th	3
7	Evaluation (Stage 1)	16th	3
8	System Design - System Architecture and Program Flow - Database design - System Modules - User Interface Design - Documentation	20th	12
	Presentation	21st	3

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9	Implementation - System Implementation Preparations - System Development Languages and Environments - System Programming (Data Structures , Modules Programming , Components Integration , Interface Programming) - Documentation	25th	12
10	Presentation	26th	3
11	System Testing and Validation - Test Approach - Test Plan - Testing Tools and Environment - Test Cases - Test Procedure - Documentation -	29th	9
12	Documentation	31st	6
13	Final Project Evaluation	32nd	3
Number of Weeks /and Units Per Semester		**32**	**96**

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B – Practical Aspect: *(if any)*

Order	Topics List	Week	Contact Hours
Number of Weeks /and Units Per Semester			

VI. Teaching strategies of the course:

Supervised Research, Group Discussion, Experiment, Seminars

VII. Assignments:

No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
	NA			

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

Assessment	Type of Assessment Tasks	Week Due	Mark	Proportion of Final Assessment

Head of Department	Vise Dean for Qulity Assurance	Dean of the Faculty	Dean of Development center and Quality Assurance
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1	Milestone presentations	5th, 10th, 15th, 21st, 26th	20	20
2	Pre- Evaluation presentation	16th	30	30
3	Documentation	31st	20	20
	Final evaluation presentation	32nd	30	30
			100	100%

VIII.   Learning Resources:

- Written in the following order: (Author – Year of publication – Title – Edition – Place of publication – Publisher).

1- Required Textbook(s) (maximum two).

5. Paul d. leedy , Jeanne ellis ormrod , 2016, Practical Research Planning and design, Pearson
6. Chinelo Igwenagu, Chinelo Igwenagu, 2016 , Fundamentals of research methodology and data collection
7. Clements,(1999). Successful Project Management, Gido, Jack & James P. International Thompson Publishing
8. `Fatima Awad Saber, Mervat Khafajah,(2002), Foundations and principles of scientific research, Libraryandtechnical Al-esha'aPress. Alexandria.
   2-

X. 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: -----------------------------------

The University Regulations on academic misconduct will be strictly enforced. Please refer to -----------

1	**Class Attendance:**

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

Republic of Yemen
Minster of Higher Education
and Scientific Research
Sana'a University
Faculty of Computer & IT
Quality Assurance Unit

الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة ـ صنعاء
كلية الحاسوب وتكنولوجيا المعلومات
وحدة ضمان الجودة

	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:** - 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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اللجنة الإشرافية

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

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