Arab American University

Faculty of Information Technology
Geographic Information Systems (Gis)
Department

الجامـعــــة العربيــــة الأمريكيـــة

كلية تكنولوجيا المعلومات
قسم نظم المعلومات الجغرافية

Course Syllabus

A. COURSE INFORMATION AND TEACHING STAFF

<table>
<tr><td rowspan="7">1. Course</td><td>Name</td><td colspan="6">GIS PROJECT MANAGEMENT</td></tr>
<tr><td>Code</td><td colspan="6">240514120</td></tr>
<tr><td>Activity</td><td colspan="6">Lecture</td></tr>
<tr><td>Credit hours</td><td colspan="6">3</td></tr>
<tr><td>Semester</td><td colspan="6">Fall 2023/2024</td></tr>
<tr><td>Pre-requisite</td><td colspan="6">240412160 INTERMEDIATE GIS</td></tr>
</table>

2. Teaching staff, time and location	Section	Building	Room	Day	Time	Instructor	Office hours
	1	EIT	104	N T Th	13:30-14:20	Esraa Hasan Asad Abu Alrub Esraa.Zakarneh@aaup.edu	N 10:00 - 11:20 M 10:20 - 11:20

B. COURSE POLICIES

1. Commitment and Attendance	Attendance is required; and university regulations in this regard are strictly applied. It is important to note the following: 1. The student is expected to follow all announcements issued by the university, faculty, department as well as the course instructor through the official channels. It is the student's full responsibility to get aware of these announcements and to react accordingly. 2. The student has to communicate electronically with the course instructor, whenever needed, through the official channels exclusively which are limited to the AAUP email and Moodle messages only. 3. The student is expected to attend all classes* and to arrive at classroom on time. 4. If the instructor is late for class, the student must wait for at least 10 minutes before leaving the classroom. 5. Absence by more than 25% of classes leads to an automatic withdrawal from the course (the grade W is assigned).
2. Performance of assessment activities	The student must perform all course assessment activities, i.e. assignments, quizzes, exams etc. It is important to note the following: 1. Absence from an exam or a quiz other than the final exam leads to a zero mark in that exam or quiz. An exception allowing a makeup is made for a student submitting a legitimate excuse that is accepted by the instructor in a timely manner. 2. Absence from the final exam leads to an FA grade that eventually turns to an F grade. An exception allowing a makeup exam is made if the student submits an official excuse that is accepted by the Academic Affairs in compliance with the university regulations.

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3. Academic Integrity	The student is expected to be honest during the performance of assessment activities. While not limited to the list below, the following actions are examples of cheating: 1. Copying from other students. 2. Using materials that are not authorized by the proctor during quizzes or exams. 3. Collaborating with other students during quizzes or exams. 4. Stealing or buying the content of exams, quizzes, and assignments. 5. Stealing ideas and work of others and presenting them as that of the student
4. Grading	The university uses the letter grading system. It is important to note the following: 1. The passing grade is D, and the corresponding score (out of 100) is determined at the end of the semester. 2. At the end of the semester, the scale of scores is determined by converting each

5. Learning and teaching methods	Lectures	Class sessions involve lectures, video shows, case studies, discussions, debates, and power-point presentations on topics and current issues related to the course contents.
	Readings	This must be a key responsibility to each student. Students should read the relevant parts of the textbook and other materials before class. They should be prepared to raise questions and to get engaged in arguments on related topics in the class schedule.

C. COURSE DETAILS

1. Course description & purpose	Introduction to Project Management, The Project Management Context and Processes, Project Integration Management, Project Scope Management, Project Time Management, Microsoft Project 2000, Project Cost Management, Project Quality Management, Project Human Resource Management, initiating presentations, planning presentations executing, presentations controlling, presentations closing, presentations, Group presentations

2. Course learning outcomes (CLOs)		Upon the completion of the course, students will be able to achieve the following learning outcomes:
	CLO1	Discuss the genesis of project management and its importance to improve the success of SPATIAL INFORMATION TECHNOLOGY projects.
	CLO2	Describe knowledge of project management terms and techniques for SPATIAL INFORMATION TECHNOLOGY projects.
	CLO3	Apply project management concepts to real life projects.
	CLO4	Develop GIS project Work Breakdown Structures, schedules and budgets.
	CLO5	Understand project execution and controlling.
	CLO6	Implement and use Microsoft Project 2013 to help plan and manage a GIS project.

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3. Assessments	Assessment tool	Weight %	CLOs	Due week
	Mid. Term	30%	1,2,3,4	7
	Final Exam	40%	1,2,3,4,5,6	16
	Project	20%	1,2,3,4,5,6	15
	Participation	10%	1,2,3,4,5,6	
	Total	100%		

null

4. CLOs assessment	Outcomes	CLO 1	CLO 2	CLO 3	CLO 4	CLO 5	CLO 6
	1 - Mid. Term	✓	✓	✓	✓		
	2 - Final Exam	✓	✓	✓	✓	✓	✓
	3 - Project	✓	✓	✓	✓	✓	✓
	4 - Participation	✓	✓	✓	✓	✓	✓

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	Week	Topics	Study material	Assignment	CLOs
5. Course schedule	1	THE CURRENT STATUS OF SPATIAL INFORMATION TECHNOLOGY	Chapter 1 - Spatial database systems		1
	2	**Introduction to Project Management**	Chapter 1 - IT Project Management		1,2
	3	**The Project Management and Information Technology Context**	Chapter 2 - IT Project Management		1,2
	4	**The Project Management Process Groups: A Case Study**	Chapter 3 - IT Project Manageent		1,2,3
	5	**Project Integration Management** What Is Project Integration Management? Strategic Planning and Project Selection Strategic Planning Identifying Potential Projects Aligning IT with Business Strategy Methods for Selecting Projects Focusing on Broad Organizational Needs Categorizing IT Projects	Cchapter 3 - IT Project Mnagement		1,2,3
	6	cont . **Project Integration Management** Performing Net Present Value Analysis, Return on Investment, and Payback Analysis Using a Weighted Scoring Model Developing a Project Charter Developing a Project Management Plan Project Management Plan Contents Using Guidelines to Create Project Management Plans Project Execution Tools and Techniques	Chapter 4 - IT Project Management		1,2,3,4
	7	Mid. Term	Text Book 1 - chapter 1-4 Text Book 2 - chapter 1		

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	Week	Topics	Study material	Assignment	CLOs
5. Course schedule	8	**Project Scope Management** What Is Project Scope Management? Planning Scope Management Collecting Requirements Defining Scope Creating the Work Breakdown Structure Approaches to Developing Work Breakdown Structures	Chapter 5 - IT Preject Management		3,4
	9	**Project Scope Management cont.** Using Guidelines The Analogy Approach The Top-Down and Bottom-Up Approaches Using Software to Assist in Project Scope Management	Chapter 5 - IT Project Management		3,4,5
	10	**Project Time Management** The Importance of Project Schedules Planning Schedule Management Defining Activities Sequencing Activities Dependencies	Chapter 6 - IT Proejct Management		5,6
	11	**Project Management for spatial database implementation** Identifying Project Resources Writing a Project Proposal Recruiting and Organizing the Project Team	Chapter 9 - Spatial database systems		3,5
	12	PROJECT EXECUTION ACTIVITIES AND METHODS Request for a Proposal Spatial Data Acquisition and Evaluation Technology Acquisition and Evaluation Application Development Strategies and Techniques	Chapter 9 - Spatial Database Systems		2,3,4
	13	**Project Management for spatial database implementation** PROJECT MONITORING AND CONTROL Contract Management and Control Quality Assurance and Quality Control	Spatial databases Systems - Chapter 9		4,5

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	Week	Topics	Study material	Assignment	CLOs
5. Course schedule	14	GIS Tools and aplications for Project Managements	ESRI ArcGIS tool Boxes for Project Management		4,6
	15	Project			
	16	Final Exam			

D. COURSE MATERIAL	
1. Textbook	1. *Information Technology Project Management 7th Edition* Kathy Schwalbe | Cengage Learning | ISBN: 1133526853, 9781133526858. *2. Spatial database systems: Design, implementation and project management* (Vol. 87) 2007. Yeung, A.K. and Hall, G.B. Springer Science & Business Media. ISBN: **ISBN-**
2. Reference material	A Guide to the Project Management Body of Knowledge :(PMBOK Guide). Project Management Institute, Incorporated, 2012.Esri worksheets for Project management tools
3. Internet resources	https://pmtexts.com/it-pm/