Faculty: Information Technology	
Department: Software Engineering	Program: Bachelor
Academic Year:	Semester:

Course Plan

First: Course Information

Course No.: 1503275	Course Title Software Project Management	Credit Hours: 3	Theoretical: 3	Practical: 0
Prerequisite No. and Title: 1503270		Section No.:	Lecture Time:	
Level in JNQF	7			
Type Of Course:	☐ Obligatory University Requirement ☐ Elective University Requirement ☐ Obligatory Faculty Requirement ☐ Elective Faculty Requirement ■ Obligatory Specialization Requirement ☐ Elective Specialization Requirement ☐ Ancillary course			
Type of Learning:	☐ Face-to-Face Learning ■ Blended Learning (2 Face-to-Face + 1 Asynchronous) ☐ Online Learning (2 Synchronous+ 1 Asynchronous)			

Second: Instructor's Information

Course Coordinator		
Name:		Academic Rank:
Office Number:	Extension Number:	Email:
Course Instructor		
Name:		Academic Rank:
Office Number:	Extension Number:	Email:
Office Hours:	Sunday Monday Tuesday Wednesday Thursday	

Third: Course Description

Material presented in software project management. Techniques for software development projects, plans, and programs to support the quality of plans and risk management plans. Topics covered also include project management issues: customer management, and management and technical teams, project planning, schedule, and risk management, configuration management, quality assurance and accreditation, and legal issues. It also includes training on the tools used in the management of software projects.

Fourth: Course Objectives

1. Introducing the student to the fundamental of concept of projects, management, and planning.
2. Developing the student's ability to write the main planning activities for a project.
3. Introducing the student to the fundamental concepts of project evaluation and effort estimation.
4. Expanding the student's skills for selecting the appropriate software development to follow for developing a project.
5. Providing the student with the skills for writing an activity planning using network model.

Fifth: Learning Outcomes

Level descriptor according to (JNQF)	CILOs Code	CILOs If any CLO will not be assessed in the course, mark NA.	Associated PILOs Code Choose one PILO for each CILO*	Assessment method Choose at least two methods
Knowledge	**K1**	Understand A wide range of principles and tools available to the software engineer and software manager, such as planning, organization, and monitoring of all software life-cycle phases	**PK1**	• Mid-term Exam • Final Exam
	K2	Understand the professional and ethical responsibilities of the practicing computer professional including understanding the need for quality.	**PK2**	• Mid-term Exam • Final Exam
	K3	Understand the application of computing in a business context	**PK2**	• Quizzes • Mid-term Exam • Final Exam
Skills	**S1**	Solve a wide range of problems related to the software management	**PS5**	• Mid-term Exam • Final Exam
	S2	Management of small size software	**PS5**	• Mid-term Exam • Final Exam
Competencies	**C1**	Be able to design, write and debug software management tools in appropriate languages	**PC1**	• Participation
	C2	Plan and undertake a major individual project, and prepare and deliver coherent and structured verbal and written technical report.	**PC2**	• Participation
	C3	Be able to display an integrated approach to the deployment of communication skills, use IT skills and display mature computer literacy; strike the balance between self-reliance and seeking help when necessary in new situations, and display personal responsibility by working to multiple deadlines in complex activities	**PC2**	• Participation

*CILOs: Course Intended Learning Outcomes; PILOs: Program Intended Learning Outcomes; For each CILO, the PILO could be the same or different.

Sixth: Learning Resources

Main Reference:	Software Project management			
Author: B. Hughes and M. Cotterell		Issue No.: 5th	Print:	Publication Year: 2017
Additional Sources and Websites:	● Software Project Management, K. Sutha, T. Jebula, 2015			
Teaching Type:	■ Classroom ☐ Laboratory ☐ Workshop ■ MS Teams ■ Moodle			

Seventh: Course Structure

Week no.	Course Intended Teaching Outcomes (CILOs)	Topics	Teaching Procedures*	Teaching Methods**	References***
1	K1	- Course Syllabus discussion - Introduction To Software Project Management -What is a project? - Job versus projects	Face-to-face	Lecturing	- Chapter 1
	K1	- what is a project - Assignment	Asynchronous	-Video -Assignment	Moodle
2	K1	- Activities covered by project management - Project life cycle	Face-to-face	Lecturing	Chapter 1
	K1	-project planning	Asynchronous	-Video	Moodle
3	K1 K1	-What is management? - Objectives - Measures of effectiveness	Face-to-face	Lecturing	Chapter 1
	K1	-Software project management -Assignment	Asynchronous	-Video	Moodle
4	K1	Step Wise Project planning(2) Step Wise Project planning(3)	Face-to-face	Lecturing	Chapter 2
	K2,K3	Stepwise project planning	Asynchronous	-Video	Moodle

5	K1,K2,K3	-Net profit -Pay back period Step Wise Project planning(3)	Face-to-face	Lecturing	Chapter 3
	K2,K3	Stepwise project planning	Asynchronous	-Video	Moodle
6	K1,K2,K3	-Net profit -Pay back period Step Wise Project planning(3)	Face-to-face	Lecturing	Chapter 3
	S2	-Waterfall model (video) - Assignment	Asynchronous	-Video -Assignment	Moodle
7	S2	-Waterfall model -Prototyping Incremental approach	Face-to-face	Lecturing	Chapter 4
	S2	-Incremental model (video) -Assignment	Asynchronous	-Video -Assignment	Moodle
Midterm Exam

Midterm Exam

8	C1	-Extreme programming -Software Effort Estimate	Face-to-face	Lecturing	Chapter 4
	C1	-Prototype model (video) - Assignment	Asynchronous	-Video -Assignment	Moodle
9	C1	-Taxonomy of estimating methods -Bottom-up estimate , top down approach	Face-to-face	Lecturing	Chapter 5
	C1	Agile methodology (video)	Asynchronous	-Video	Moodle
10	C1	-Algorithmic and parametric models -COCOMO Activity Planning	Face-to-face	Lecturing	Chapter 5
	C1	-top down and bottom up estimate -Assignment	Asynchronous	-video -Assignment	Moodle

11	C1,C2	-Project and activities -Network planning model	Face-to-face	Lecturing	Chapter 6
	K1,K2,C1	-COCOMO model -Assignment	Asynchronous	- Video -Assignment	Moodle
12	K1,K2,C1,C3 K1,K2	-Dangles and Lags -Types of links between activities	Face-to-face	Lecturing	Chapter 6
	K1,K2	-critical path method -Assignment	Asynchronous	-video -Assignment	Moodle
13	K1,K2,C1,C2,C3	Forward pass Example: Forward pass Forward pass	Face-to-face	Lecturing	Chapter 6
	K1,K2,C1,C2,C3	-Effort estimation (video)	Asynchronous	-Video	Moodle
14	K1,K2,C1,C2,C3	-Backward pass Example: - Backward pass Activity network full example1	Face-to-face	Lecturing	Chapter 6
	K1,K2,C1,C2,C3	-net work planning model (video)	Asynchronous	-Video -	Moodle
Final Exam					

*Teaching procedures: (Face-to-Face, synchronous, asynchronous).   ** Teaching methods: (Lecture, video….).
*** Reference: (Pages of the book, recorded lecture, video….)

Eighth: Assessment Methods

Methods	Online Learning	Blended Learning	Face-To-Face Learning	Specific Course Output to be assessed **If any CILO will not be assessed in the course, mark NA.							
				K1	K2	K3	S1	S2	C1	C2	C3
First Exam											
Second Exam											
Mid-term Exam		30		✓	✓		✓		✓	✓	
Participation		5		✓							
Asynchronous Activities											
Quizzes		5		✓			✓			✓	
Assignments											
Group presentation		10		✓			✓				
Final Exam		50		✓	✓	✓	✓	✓	✓	✓	✓
Total out of 100			100								

Ninth: Course Policies

- All course policies are applied to all teaching patterns (online, blended, and face-to-face Learning) as follows:
  a. Punctuality.
  b. Participation and interaction.
  c. Attendance and exams.
- Academic integrity: (cheating and plagiarism are prohibited).