هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission

T-104
2022

Course Specification

Course Title:	**IT PROJECT MANAGEMENT**
Course Code:	**ITEC-323**
Program:	**Bachelor in Information Technology (BIT)**
Department:	**Computer Science**
College:	**Engineering & Computer Science**
Institution:	**Jazan University**
Version:	**1**
Last Revision Date:	**18/09/2024**

كلية الهندسة وعلوم الحاسب
شطر الطالبات
Faculty of Engineering and Computer Science

Table of Contents:

A. General information about the course:

Course Identification					
1. Credit hours:	3 hours				
2. Course type					
a.	University ☐	College ☐	Department☒	Track☐	Others☐
b.	Required ☒	Elective☐			
3. Level/year at which this course is offered:	**9**				

4. Course general Description

This course will start to commence by reviewing management and project management principles. It continues by studying the software project management knowledge areas, the triple constraint, what is a Project?, difference between Program and project, project manager, skills of project manager, Project life cycle: analysis (requirements determination), Project Scope management, project time management, project cost management, project quality management, designing, implementation; system and database integration issues; project tracking techniques, metrics, and system performance evaluation; managing expectations of managers, clients, team members, and others; determining skill requirements and staffing; cost-effectiveness analysis; management of behavioral and technical aspects of the project; change management. Project risk management, project procurement management, project communications management, project human resource management. This course teaches about software tools for project tracking and monitoring. Team collaboration techniques and tools. Also, this course will introduce students to project-time scheduling methods. Students will be trained to use project management software tools such as MS-Project and MS Visio Software.

5. Pre-requirements for this course (if any): Nil

6. Co- requirements for this course (if any): Nil

7. Course Main Objective(s)

- To teach students skills needed to design a project development and implementation plan
- To develop skills in use of project management tools and methods within the context of an information system project
- To initiate, design, implement, and discuss project close down
- To determine requirements and specifications for multi-user information system based on a database
- To present and explain the evolving leadership role of information management in organization
- To examine the process for development of information system policies, procedures, and standards in the organization.

1. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1.	Traditional classroom	60	100%
2.	E-learning		
3.	Hybrid • Traditional classroom • E-learning		
4.	Distance learning		

2. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	30
2.	Laboratory/Studio	30
3.	Field	
4.	Tutorial	
5.	Others (specify)	
	Total	60

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	**Demonstrate** the concepts of project management and its importance in the industry.	K1	Visual & Verbal [Lectures / Presentations] with Inductive / deductive organization.	Midterm, Quiz , Final Exam, Assignment-1
1.2	**Relate** the fundamental knowledge areas and their relationship through project management framework.	K2	Visual & Verbal [Lectures / Presentations] with Inductive / deductive organization.	Midterm, Quiz , Final Exam, Assignment-1
1.3	**Outline** the basic project management process groups and recent trends of using formal project management techniques.	K3	Brainstorming and Report Writing	Midterm, Quiz , Final Exam, Assignment-1
2.0	Skills			
2.1	**Analyze** the existing business case to identify and define appropriate project management methodology.	S1	Visual & Verbal [Lectures / Presentations] with Inductive / deductive organization.	Midterm, Quiz, Final Exam, Assignment-1

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
2.2	**Design** and **implement** realistic plans, schedules & estimates by using formal methods to manage projects effectively.	S2	Visual & Verbal [Lectures / Presentations] with Inductive / deductive organization.	Midterm, Quiz , Final Exam, Assignment-1
2.3	**Identify and analyze** the user needs for selection, integration, evaluation and implementation of latest project management tools and techniques.	S3	Visual & Practical [Lab Session]	Midterm, Quiz, Final Exam, Assignment-1
3.0	Values, autonomy, and responsibility			
3.1	**Appraise** and **act** responsibly and ethically in carrying out individual as well as group tasks.	V1	Active Class participation as Group Activity Technical Reports writing and proving the ideas through debates	Lab Works, Group Assignments & Group Discussions.
3.2	**Demonstrate** the ability to work in teams and groups to accomplish common goals.	V2	Active Class participation as Group Activity Technical Reports writing and proving the ideas through debates	Lab Works, Group Assignments & Group Discussions.

C. Course Content

No	List of Topics	Contact Hours
1	**Chapter 1:Introduction to Project Management** • Introduction. What Is a Project? Project Attributes. • The Triple Constraint. • What Is Project Management? • Project Stakeholders. • Project Management Knowledge Areas. • Project Management Tools and Techniques. • Project Success, Program and Project Portfolio Management. • The Role of the Project Manager & Project Manager Job Description. • Suggested Skills for Project Managers. • Project Management Software.	4T+4P
2	**Chapter 2:The Project Management and Information Technology Context** • A Systems View of Project Management, What Is a Systems Approach? • The Three-Sphere Model for Systems Management.	4T+4P

	• Understanding Organizations, The Four Frames of Organizations. • Organizational Structures, Organizational Culture. • Stakeholder Management. • The Importance of Top Management Commitment. • The Need for Organizational Commitment to Information Technology. • The Need for Organizational Standards. • Project Phases and the Project Life Cycle.	
3	**Chapter 3:Project Integration Management** • What Is Project Integration Management? Strategic Planning and Project Selection. • Strategic Planning, Identifying Potential Projects. • Aligning Information Technology with Business Strategy. • \Methods for Selecting Projects. • Developing a Project Charter. • Developing a Project Management Plan. • Project Management Plan Contents. • Directing and Managing Project Execution. • Coordinating Planning and Execution. • Project Execution Tools and Techniques. • Monitoring and Controlling Project Work. • Performing Integrated Change Control. • Closing Projects or Phases.	4T+4P
. 4	**Chapter 5: Project Scope, time and cost Management** **Scope Management** • What Is Project Scope Management? • Collecting Requirements, What Are Requirements? • How Do You Collect Requirements? • How Do You Document Requirements? • Defining Scope ,Creating the Work Breakdown Structure • Verifying Scope • Controlling Scope • Using Software to Assist in Project Scope Management	3T+3P
	Project Time Management • The Importance of Project Schedules • Defining Activities ,Sequencing Activities • Dependencies , Network Diagrams • Estimating Activity Resources , Estimating Activity Durations • Developing the Schedule ,Gantt Charts • Critical Path Method	3T+3P
	Project Cost Management • What Is Cost? What Is Project Cost Management? • Basic Principles of Cost Management, • Estimating Costs.	3T+3P

	• Determining the Budget, • Controlling Costs. • Earned Value Management. • Using of software in cost management	
	Chapter 6 Project Risk Management and Project Procurement Management. **Project Risk Management.** • Planning Risk Management. • Identifying Risks. • Qualitative Risk Analysis. • Quantitative Risk Analysis. • Planning Risk Responses. • Monitoring and Controlling Risks. • Risk Breakdown Structure. **Project Procurement Management.** • Importance of Project Procurement. • Project Procurement Processes. • Planning purchases and acquisitions. • Planning contracting. • Requesting seller responses • Selecting sellers. • Administering Procurements. • Closing Procurements.	5T+5P
Total		60

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Assignment -1	3rd Week	15%
2.	Assignment -2	5th Week	10%
3.	Midterm	8th Week	15%
4.	Lab Assessment	14th Week	20%
5.	Final Exam	15th Week	40%

*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	David L. Olson, David Olson, "Introduction to Information Systems Project Management", 2003., ISBN: 0072872705.
Supportive References	Marchewka, J. T. 2006. *Information Technology Project Management: Providing Measurable Organizational Value*. 2nd Edition. Hoboken: John Wiley & Sons, Inc.
Electronic Materials	1- www.softwareprojects.org/ 2- www.projectreference.com/
Other Learning Materials	Projectlibre manual

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Classroom /labs
Technology equipment (projector, smart board, software)	Projector, Smart Board, Microsoft Office, Microsoft Project and Microsoft Visio
Other equipment (depending on the nature of the specialty)	Computer availability for each individual student with all the required accessories. Internet should be available.

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	HOD / QAU	Direct
Effectiveness of students assessment	Students	Indirect
Quality of learning resources	CEO / Track Leaders	Direct
The extent to which CLOs have been achieved	HOD / QAU	Direct
Other		

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

Assessment Methods (Direct, Indirect)

G. Specification Approval Data

COUNCIL /COMMITTEE	DEPARTMENT COUNCIL
REFERENCE NO.	MEETING NO. 1, AGENDA NO. 2
DATE	13/09/2022