



Course Specifications

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|----------------------|----------------------------------|
| Course Title: | Project Management |
| Course Code: | CSI 448 |
| Program: | Information and Computer Science |
| Department: | Computer Science and Information |
| College: | Science at Al-Zulfi |
| Institution: | Majmaah |

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A. Course Identification

| |
|---|
| 1. Credit hours: |
| 2. Course type |
| a. University <input type="checkbox"/> College <input type="checkbox"/> Department <input type="checkbox"/> Others <input type="checkbox"/> |
| b. Required <input checked="" type="checkbox"/> Elective <input type="checkbox"/> |
| 3. Level/year at which this course is offered: |
| 4. Pre-requisites for this course (if any): |
| 5. Co-requisites for this course (if any): Software Engineering 2 (CSI 422) |

6. Mode of Instruction (mark all that apply)

| No | Mode of Instruction | Contact Hours | Percentage |
|----|-----------------------|---------------|------------|
| 1 | Traditional classroom | | 80% |
| 2 | Blended | | 5% |
| 3 | E-learning | | 5% |
| 4 | Correspondence | | 00% |
| 5 | Other | | 10% |

7. Actual Learning Hours (based on academic semester)

| No | Activity | Learning Hours |
|------------------------------|---------------------------------|----------------|
| Contact Hours | | |
| 1 | Lecture | 30 |
| 2 | Laboratory/Studio | |
| 3 | Tutorial | 15 |
| 4 | Others (specify) | |
| | Total | 45 |
| Other Learning Hours* | | |
| 1 | Study | |
| 2 | Assignments | |
| 3 | Library | |
| 4 | Projects/Research Essays/Theses | |
| 5 | Others (specify) | |
| | Total | |

* The length of time that a learner takes to complete learning activities that lead to achievement of course learning outcomes, such as study time, homework assignments, projects, preparing presentations, library times

B. Course Objectives and Learning Outcomes

1. Course Description

This course provides a systematic and thorough introduction to all aspects of project management. Projects are an increasingly important aspect of modern business. Therefore, the course underlines the importance of understanding the relation between projects and the strategic goals of the organization. The course also discusses the technical, cultural, and interpersonal skills necessary to successfully manage projects from start to finish. It emphasizes that project management is a professional discipline with its own tools, body of knowledge, and skills. Concepts are reinforced by case studies covering a wide variety of project types and industries.

2. Course Main Objective

1. Utilize the use of a structured approach for each and every unique project undertaken including utilizing project management concepts, tools, and techniques
2. Understand the project management lifecycle and be knowledgeable on the various phases from project initiation through closure.
3. Develop detailed project plan to include: Defining a project's scope and tasks, estimating task resource needs, assessing project risk and response strategies, a communications plan, and more Understand the critical role an strong project manager plays in project success

3. Course Learning Outcomes

| CLOs | | Aligned PLOs |
|------|---|--------------|
| 1 | Knowledge: | |
| 1.1 | Demonstrate knowledge of project management concepts, methodologies and techniques. | ICS-a2 |
| 1.2 | Identify contrasting and related characteristics of project management, strategic management, operations management, and crisis management. | ICS-a2 |
| 2 | Skills : | |
| 2.1 | Identify contrasting and related characteristics of project management, strategic management, operations management, and crisis management. | b1 |
| 2.2 | Apply Project Management principles through class exercises in project scope management, project time management and teaming. | b1 |
| 2.3 | Develop detailed project plan to include: Defining a project's scope and tasks by using the different technique, estimating task resource needs, assessing project risk and response strategies, a communications plan. | b1 |
| 2... | | |
| 3 | Competence: | |
| 3.1 | Learn how to search for information through library and internet, and present a short report in a written form and orally using appropriate scientific language. | c3 |
| 3... | | |

C. Course Content

| No | List of Topics | Contact Hours |
|--------------|---|---------------|
| 1 | Introductory Concepts: What is a Project? , The Project Lifecycle, Projects in the Context of Strategic Management, Organization: Structure and Culture, Stakeholders and Roles Challenges and Opportunities. | 6 |
| 2 | Strategic Management and project Selection: Project Management Maturity, Project Selection and Criteria of Choice, The nature of Project Selection Models , Types of project Selection , Analysis under Uncertainty – The Management of Risk , Comments on the Information Base for Selection , Project Portfolio Process , project Proposals. | 6 |
| 3 | The Project Manager: Project Management and the Project Manager, Special Demands on the project manager, Selecting the project Manager, Problems of Cultural Differences, Impact of Institutional Environments, Multicultural Communications and managerial Behavior. | 6 |
| 4 | Project Organization: The Project as part of the Functional Organization, Pure Project Organization, The Matrix Organization, Mixed Organizational Systems, Choosing an Organizational Form, Risk Management and the project Office, The Project Team, Human actors and the Project Team. | 3 |
| 5 | Project Planning : Initial Project Coordination , Systems integration , Sorting Out the Project , The Work Breakdown Structure and Linear responsibility Charts , Interface Coordination through Integration Management. | 6 |
| 6 | Conflict and Negotiation: The Nature of Negotiation, Partnering, Chartering, and Change, Conflict and the Project Life Cycle, Some Requirements and Principles of Negotiation, Negotiation in Action – The Quad Sensor Project. | 6 |
| 7 | Budgeting and Cost Estimation : Estimating Project Budgets, Improving the Process of Cost Estimation ,Determine the Estimate Type, Implementing Bottom-Up Cost Estimates ,Implementing Top Down Estimating. | 6 |
| 8 | Scheduling: Background, Network Techniques: PERT and CPM, 1 4 egaP4fO8 Risk Analysis using Simulation with Crystal Ball, extensions and Applications. | 3 |
| 9 | Monitoring and Information Systems & EVM : The Planning – Monitoring – Controlling Cycle, Information Needs and the Reporting Process, Earned Value Analysis, Computerized PMIS (Project Management Information Systems). | 3 |
| ... | | |
| Total | | |

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

| Code | Course Learning Outcomes | Teaching Strategies | Assessment Methods |
|------|--------------------------|---------------------|--------------------|
| 1.0 | Knowledge | | |

| Code | Course Learning Outcomes | Teaching Strategies | Assessment Methods |
|------------|---|--|--|
| 1.1 | Demonstrate knowledge of project management concepts, methodologies and techniques. | Lectures. Lab demonstrations. Case studies. Individual presentations | Written Exam Homework assignments Lab assignments Class Activities Quizzes |
| 2.0 | Skills | | |
| 2.1 | Identify contrasting and related characteristics of project management, strategic management, operations management, and crisis management. | | |
| 2.2 | Apply Project Management principles through class exercises in project scope management, project time management and teaming | Lectures. Lab demonstrations. Case studies. Individual presentations. Brainstorming. | Written Exam Homework assignments Lab assignments Class Activities Quizzes |
| 2.3 | Develop detailed project plan to include: Defining a project's scope and tasks by using the different technique, estimating task resource needs, assessing project risk and response strategies, a communications plan. | | |
| 3.0 | Competence | | |
| 3.1 | Learn how to search for information through library and internet, and present a short report in a written form and orally using appropriate scientific language. | Small group discussions. Whole group discussions. Brainstorming. Presentations. | Written Exam Homework assignments Lab assignments Class Activities Quizzes |
| 3.2 | Work in groups, operate questions during the lecture and communicate with each other and with me electronically, and periodically visit the sites the lecturer recommended. | Small group discussions. Whole group discussions. Brainstorming. Presentations. | Written Exam Homework assignments Lab assignments Class Activities Quizzes |
| ... | | | |

2. Assessment Tasks for Students

| # | Assessment task* | Week Due | Percentage of Total Assessment Score |
|---|--|--------------------|--------------------------------------|
| 1 | First written mid-term exam | 6 | 15% |
| 2 | Second written mid-term exam | 12 | 15% |
| 3 | Presentation, class activities, and group discussion | Every week | 5% |
| 4 | Homework assignments | After each chapter | 5% |
| 5 | Implementation of presented protocols | 15 | 20% |
| 6 | Final written exam | 16 | 40% |
| 7 | Total | Every week | 100% |
| 8 | | | |

*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice :

Office hours: Sun: 8-10, Mon. 10-12, Tues. 8-10

Email: a.abdalrahman@mu.edu.sa

F. Learning Resources and Facilities

1. Learning Resources

| | |
|---------------------------------------|--|
| Required Textbooks | Project Management: The Managerial Process with MS Project (The McGraw-Hill Series Operations and Decision Sciences) Multimedia CD – October 16, 2013 by Erik Larson ISBN: 978-1259186400. |
| Essential References Materials | Modern erp: select, implement & use today's advanced business systems by Marianne Bradford (2010) |
| Electronic Materials | |
| Other Learning Materials | Videos and presentations are available with me |

2. Facilities Required

| Item | Resources |
|--|---|
| Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.) | Classrooms and Labs available at College of science in Zulfi. |
| Technology Resources (AV, data show, Smart Board, software, etc.) | Smart Board. |
| Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list) | N/A |

G. Course Quality Evaluation

| Evaluation Areas/Issues | Evaluators | Evaluation Methods |
|---|-----------------|--------------------|
| Student-faculty management meetings. | Program Leaders | Direct |
| Discussion within the staff members teaching the course | Peer Reviewer | Direct |
| Departmental internal review of the course. | Peer Reviewer | Direct |
| Reviewing the final exam questions and a sample of the answers of the students by others. | Peer Reviewer | Direct |

| Evaluation Areas/Issues | Evaluators | Evaluation Methods |
|---|------------|--------------------|
| Visiting the other institutions that introduce the same course one time per semester. | Faculty | Indirect |

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

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

Assessment Methods (Direct, Indirect)

H. Specification Approval Data

| | |
|---------------------|--------------------------------|
| Council / Committee | Dr. Afaf Abdul Rahman Mohammed |
| Reference No. | |
| Date | 9/10/2019 |