

Sudan University of Science & Technology
College of Business Studies
Management Information System (MIS) Department



Information Technology Project Management Course



Course Syllabus

13 LECTURES @3 hours

Course Details

<p>Course Description:</p>	<p>The past several decades have been marked by rapid growth in the use of project management as a means by which organizations achieve their objectives. Project management provides an organization with powerful tools that improves its ability to plan, implement and control its activities as well as the ways in which it utilizes people and resources. The focus of this course is on information technology (IT) projects. IT projects are among the most popular types of projects in organizations today since IT is an integral part of almost every business process in small and large organizations.</p> <p>Understand what project management means and how it improves the success of information technology projects.</p> <ol style="list-style-type: none"> 1. Demonstrate knowledge of project management terms and techniques, such as: <ul style="list-style-type: none"> • The triple constraint of project management • The project management knowledge areas and process groups • The project life cycle • Tools and techniques of project management, such as: <ul style="list-style-type: none"> ✓ Project selection methods ✓ Work breakdown structures ✓ Network diagrams, critical path analysis, and critical chain scheduling ✓ Cost estimates ✓ Earned value management ✓ Motivation theory and team building. 2. Use Microsoft Project 20 and other software to help plan and manage a small project. 3. Appreciate the importance of good project
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	<p>management.</p> <ul style="list-style-type: none"> • Share examples of good and bad project management. • Use discussion postings throughout the course for personal reflection. • Use knowledge and skills developed in this class in other settings.
<p>Course Objectives:</p>	<p>Students will become familiar with the essential tools and techniques of IT project management as well as ways of dealing with the "people" issues that must be addressed in order to make the tools and techniques most effective.</p> <p>This survey course attempts to examine a broad range of topic areas that are relevant to project management.</p> <p>The objectives of this course are for you to</p> <ol style="list-style-type: none"> 1) understand project management and its importance; 2) demonstrate knowledge of project management terms and techniques (tool kit); 3) Apply project management techniques in analyzing an IT project.
<p>Course Grade Components:</p>	<ul style="list-style-type: none"> • Final Exam 100 • Midterm Exam 20 • Test 10 • Seminar or Project 10 • Attendance 10 • Lab Work 50
<p>Course Material:</p>	<p>Schwalbe, Kathy, <i>Information Technology Project Management, 7th Edition</i>, Course Technology, Information Technology Project Management, Kathy Schwalbe, Sevten Edition, Course Technology, ISBN: 978-1-133-52685-8</p>

Contact Information:	<p>Students may contact me at any time, during office hours. You can also meet with me when I am at the University. If I am free, I will meet with you without an appointment. Otherwise, you should request an appointment.</p> <p>Office: Laser Building 2nd floor – Computer Center. Phone: +249 15566 1670 Email: abdelmonim@sustech.edu</p>
Teaching Languages	Arabic – English.

Course Syllabus and Schedule:

Week 1: Chapter 1 Introduction: Why Project Management

Topics:

- Introduction to Project Management
- Determinants of Project Success
- Project Elements and Text Organization

Week 2: Chapter 2 Project Management and Information Technology Context

Topics:

- Understanding Organizations
- Project Life Cycle
- Context of Information Technology Projects

Week 3: Chapter 3: Project Management Process Groups

Topics:

- Project Management Process Groups
- Case Study

Week 4: Chapter 4 Project Integration Management

Topics:

- Strategic Planning and Project Management
- Developing a Project Plan
- Directing and Managing Project Execution
- Monitoring and Controlling Projects
- Closing Projects

Week 5: Chapter 5 Project Scope Management

Topics:

- Collecting Requirements
- Creating Work Breakdown Structure (WBS)
- User Input

Week 6: Chapter 6: Project Time Management

Topics:

- Defining Activities
- Sequencing Activities
- Estimating Duration
- Developing the Schedule
- Controlling the Schedule

Week 7: Chapter 7: Project Cost Management

Topics:

- Cost Management
- Cost Estimation
- Creating a Project Budget
- Developing Budget Contingencies

Week 8: Chapter 9: Project Human Resource Management

Topics:

- Key to Managing People
- Developing a HR Plan
- Acquiring a Project Team
- Developing a Project Team

Week 9: Chapter 8: Project Quality Management

Topics:

- Performing Quality Assurance
- Performing Quality Control
- Improving IT Project Quality Leadership

Week 10: Chapter 10 Project Communications Management

Topics:

- Understand importance of communications in project management
- Plan for effective communications
- Understand reporting performance
- Describe how IT can enhance project communications

Week 11: Chapter 11 Project Risk Management

Topics:

- Planning Risk Management
- Identifying Risks
- Performing Qualitative Risk Analysis
- Performing Quantitative Risk Analysis
- Monitoring and Controlling Risks

Week 12: Chapters 12 & 13: Procurement Management & Stakeholder Management

- Self Reading