

Woldia university
Institute of technology
Software engineering program

Course Title: Software Project Management	Course Manager: <i>Desalegn B</i>
Course Code: Seng3112	Office: Green Build. Room No. 24
CP :5 (2hrs Lecture, 3hrs Tutorial)	Consultation Hours: Mon & Fri afternoon Room for consultation: office
Module Title: Research and Project Works	Email: desbelcomp2002@gmail.com
Module Number:11	Lecture Dates, Hours & Rooms Wednesday 4:00-5:50, Room B-12,G+2,R-1 Thursday 8:00-10:50, Room B-12,G+2,R-1
Pre-requisites: SEng3053	Year: III
Status of Course: Compulsory	Semester: II

Course Description

This course will introduce the area of Software project management, presenting basic techniques and approaches and aiming to develop a critical awareness of the challenges and shortcomings of the area. Software Project Management is an important area of study since most non-trivial IS development efforts will be make use of some type of project management approach in an aim to manage the development process in such a way that the IS meets its requirements and is on-time and within budget.

Course Objective

At the end of the course students will be able to:

- Understand the issues involved in Software project management and the factors that affect Software quality;
- Develop Software project plans, supporting Software quality plans and risk management plans.
- Capable of actively participating or successfully managing a Software development project by applying project management concepts
- Demonstrate knowledge of project management terms and techniques

Course contents

Weeks	Topics	
1-3	1) Introduction to Software Project Management	
	1.1 Importance of IS project mgt. 1.1.1 What is a project? 1.1.2 Problems with Software Projects 1.1.3 What is Project Management?	1.2.2 Planning 1.2.3. Project Execution 1.2.4 Project and Product Life Cycles
	1.2. Stages of Project 1.2.1. The Feasibility Study 1.2.1.1 The Cost-benefit Analysis	1.3. The Stakeholder of a Project 1.3.1 All parties of a project 1.3.2 The Role of Project Manager 1.4. Project Management Framework 1.5. IS Tools for Project Management

3-4	2) Project Planning	
	2.1. Integration Management 2.1.1 What is Integration Management 2.1.2. Project Plan Development 2.1.3. Plan Execution 2.2 Scope Management	2.2.1 What is Scope Management? 2.2.2 Methods for Selecting Projects 2.2.3 Project Charter 2.2.4 Scope Statement 2.2.5 Work Breakdown Structure 2.3 Stepwise Project Planning 2.3.1 Overview of Project Planning 2.3.2 Main Steps in Project Planning
5-6	3) Project Scheduling	
	3.1 Time Management 3.1.1. Importance of Project Schedules 3.1.2. Schedules and Activities	3.1.3. Sequencing and Scheduling Activity 3.2 Project Network Diagrams
6-7	4) Project Cost Management	
	4.1. Importance and Principles of Project Cost Management 4.2. Resource Planning	4.3. Cost Estimating 4.4 Cost Budgeting 4.5 Cost Control
7-8	5) Project Quality Management	
	5.1 Quality of IS Projects 5.2 Stages of IS Quality Management 5.2.1 Quality Planning 5.2.2 Quality Assurance	5.2.3 Quality Control 5.3 Quality Standards 5.4 Tools and Techniques For Quality Control
9-10	6) Project Human Resources Management	
	6.1. What is Project Human Resources Management? 6.2 Managing People	6.3. Organizational Planning 6.4. Issues in Project Staff Acquisition and Team Development
10-11	7) Project Communication Management	
	7.1. Communications Planning 7.2. Information Distribution 7.3. Performance Reporting	7.4. Administrative Closure 7.5. Suggestions for Improving Project communications
11-12	8) Project Risk Management	
	8.1. The Importance of Project Risk Management 8.2. Common Sources of Risk in IT projects 8.3. Risk Identification	8.4. Risk Quantification 8.5. Risk Response Development and Control
13-14	9) Project Procurement Management	
	9.1. Importance of Project Procurement Management 9.2. Procurement Planning 9.3. Solicitation	9.4. Source Selection 9.5. Contract Administration 9.6. Contract Close-out
14-15	10) Project Management Process Groups	

	10.1 Introduction to Project Management Process Groups 10.2. Project Initiation 10.3. Project Planning 10.4. Project Executing	10.5. Project Controlling and Configuration Management 10.6. Project Closing
16	Final Exam	

Summary of Teaching Learning Methods

The teaching-learning methodology will be student-centered with appropriate guidance of instructor/s during the student's activities. There will be Lecture, Demonstrations, Tutorials, Reading assignments and Group Discussions

Assessment Methods: - *Quizzes 10%, Group Assignment 20%, Individual Assignment 10%, mid-Exam 20%, Final Exam 40%.*

References

1. Cotterell, B. H. (1999). Software Project Management. (2nd, Ed.) London: McGraw Hill.
2. Institute, P. M. (2000). Project Management Body of Knowledge (PMBOK). Pennsylvania: Project Management Institute.
3. Schewalbe, K. (2011). Information Technology Project Management. USA.
4. Pressman, R. S. (2001). Software Engineering: A Practitioner's Approach. (5th, Ed.) Boston: McGraw Hill.

Approved by:

	<u>Name</u>	<u>Signature</u>	<u>Date</u>
Instructor	<u>Desalegn B</u>	_____	_____
Quality assurance	<u>Demeke G</u>	_____	_____
Head of Dep't	<u>Zelege Ch.</u>	_____	_____