

Planning and Quality Assurance Affairs

Form (A)

Course Specifications

General Information

Course name	Software Management
Course number	ITSE4304
Faculty	
Department	
Course type	Major Needs
Course level	4
Credit hours (theoretical)	3
Credit hours (practical)	0
Course Prerequisites	

Course Objectives

- 1 - Student will be able to appreciate the importance of software management
- 2 - Student will be able to acquire knowledge of people management
- 3 - Student will be able to develop skills to perform software management analysis
- 4 - Student will be able to develop skills to perform effort estimation
- 5 - Student will be able to develop skills to perform software process analysis and improvement
- 6 - Student will be able to acquire knowledge of plan-driven and agile management techniques
- 7 - Student will be able to develop skills to write project and quality plans
- 8 - Student will be able to utilize software management tools
- 9 - Student will be able to develop skills to perform risk management

Intended Learning Outcomes

Knowledge and Understanding	* Student will be able to explain team building methods * Student will be able to describe behavioral models * Student will be able to describe personality types * Student will be able to describe risk management strategies * Student will be able to describe crisis management * Student will be able to describe estimation principles * Student will be able to describe process improvement techniques
Intellectual Skills	* Student will be able to perform risk analysis * Student will be able compare conflict management techniques * Student will be able to compare effort estimation strategies * Student will be able to compare software development models
Professional Skills	* Student will be able to develop project schedules * Student will be able to perform pert analysis * Student will be able to discuss similarities and differences between plan-driven and agile management * Student will be able to apply COCOMO model * Student will be able to perform function point analysis * Student will be able to perform object-point analysis * Student will be able to perform use case analysis * Student will be able to perform software sizing * Student will be able to utilize software management tools * Student will be to develop project plan * Student will be able to implement a project plan * Student will be able to perform work breakdown * Student will be able to define project scope

Course Contents

1 - Major issues and techniques of project management: team building, people management, risk assessment and management, scheduling, Pert analysis, planning, quality planning, and conflict management. Plan-driven and agile management. Software sizing. Effort estimation strategies. Estimation techniques: COCOMO, function point analysis, object-point analysis, use case analysis, SLOC. Process Improvement techniques. CMMI-Dev. Software management tools

Teaching and Learning Methods

1 - Lectures
2 - Assignments

Students Assessment

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
Midterm I	6th Week	20
Midterm II	9th Week	20
Attendance & Assignments		10
Final Exam	16th Week	50

