



Course description:

Material presented in software project management. Techniques for software development projects, plans, and programs to support the quality of plans and risk management plans. Topics covered also include project management issues: customer management, and management and technical teams, project planning, schedule, and risk management, configuration management, quality assurance and accreditation, and legal issues. It also includes training on the tools used in the management of software projects.

Aims of the course:

To learn the students how to manage the hole project from planning , cost evaluation, risk assessment, resources management, monitoring and control, and sign contract

Intended Learning Outcomes: (ILOs)

1. Understand A wide range of principles and tools available to the software engineer and software manager, such as planning, organization, and monitoring of all software life-cycle phases.
2. Understand the professional and ethical responsibilities of the practicing computer professional including understanding the need for quality.
3. Understand the application of computing in a business context.
4. Solve a wide range of problems related to the software management.
5. Management of small size software.
6. Be able to design, write and debug software management tools in appropriate languages.
7. Plan and undertake a major individual project, and prepare and deliver coherent and structured verbal and written technical report.
8. Be able to display an integrated approach to the deployment of communication skills, use IT skills and display mature computer literacy; strike the balance between self-reliance and seeking help when necessary in new situations, and display personal responsibility by working to multiple deadlines in complex activities.

Course structures:

Week	Credit Hours	ILOs	Topics	Teaching Procedure	Assessment methods
1,2	6	1	Introduction To Software Project Management Software project versus other types of projects Plan Methods and Methodology	Presentation methods and techniques, Sources of information and Instructional Aids	Diagnostic tests to identify the students level and areas of weakness Formal (stage) evaluation a) Class Participation b) Ist Exam c) 2nd Exam d) Activity file
3,4	6	1	Management Project Planning Step Wise Project planning	Presentation methods and techniques, Sources of	Diagnostic tests to identify the students level and areas of weakness Formal (stage) evaluation

				information and Instructional Aids	a) Class Participation b) Ist Exam c) 2nd Exam d) Activity file
5	3	2,3	Project Evaluation Evaluation of individual project Cost benefit evaluation	Presentation methods and techniques, Sources of information and Instructional Aids	Diagnostic tests to identify the students level and areas of weakness Formal (stage) evaluation a) Class Participation b) Ist Exam c) 2nd Exam d) Activity file
6	3	4	Risk Evaluation Benefit management Selection Of An Appropriate Project Approach	Presentation methods and techniques, Sources of information and Instructional Aids	Diagnostic tests to identify the students level and areas of weakness Formal (stage) evaluation a) Class Participation b) Ist Exam c) 2nd Exam d) Activity file
7,8	6	5	Waterfall model Prototyping Incremental approach	Presentation methods and techniques, Sources of information and Instructional Aids	Diagnostic tests to identify the students level and areas of weakness Formal (stage) evaluation a) Class Participation b) Ist Exam c) 2nd Exam d) Activity file
9	3	6	Software Effort Estimate Software Effort Estimate techniques Bottom-up estimate , top down approach	Presentation methods and techniques, Sources of information and Instructional Aids	Diagnostic tests to identify the students level and areas of weakness Formal (stage) evaluation a) Class Participation b) Ist Exam c) 2nd Exam d) Activity file
10,11	6	6	Activity Planning Project schedule Network planning model	Presentation methods and techniques, Sources of information and Instructional Aids	Diagnostic tests to identify the students level and areas of weakness Formal (stage) evaluation a) Class Participation b) Ist Exam c) 2nd Exam d) Activity fil
12 ,13	6	1,2	Forward pass Backward pass Activity float	Presentation methods and techniques, Sources of information and Instructional Aids	Diagnostic tests to identify the students level and areas of weakness Formal (stage) evaluation a) Class Participation b) Ist Exam c) 2nd Exam d) Activity fil
14, 15	3	7	Risk Management. Categories of risk. Risk planning and management.	Presentation methods and techniques, Sources of	Diagnostic tests to identify the students level and areas of weakness Formal (stage) evaluation



				information and Instructional Aids	a) Class Participation b) Ist Exam c) 2nd Exam d) Activity fil
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References:

Text Book: Text Book: B. Hughes and M. Cotterell. Software Project management. McGraw-Hill, 2009.

Optional:

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Assessment Methods:

Methods	Grade	Date
First Exam	20%	
Second Exam	20%	
Assignments (Reports /Quizzes/ Seminar / Tutorials)	10%	
Final Examination	50%	