



SWARNANDHRA

College of Engineering & Technology

(Autonomous)

Narsapur- 534 280

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

TEACHING PLAN

Course Code	Course Title	Course / Semester	Branches/Section	Contact Hrs/Week	Academic Year
16CS5E01	Software Project Management	B. Tech / V	CSE	5	2020-2021

COURSE OUTCOMES: At the end of the course students are able to

1. Manage the scope, cost, timing, and quality of the project, at all times focused on project success as defined by project stakeholders.
2. Align the project to the organization's strategic plans and business justification throughout its lifecycle.
3. Identify project goals, constraints, deliverables, performance criteria, control needs, and resource requirements in consultation with stakeholders.
4. Implement project management knowledge, processes, lifecycle and the embodied concepts, tools and techniques in order to achieve project success.
5. Demonstrate a strong working knowledge of ethics and professional responsibility.
6. Demonstrate effective organizational leadership and change skills for managing projects, project teams and stakeholders

Week No.	Course Outcome	UNIT I Topics/Activity	Text Book Reference	Contact Hours	Delivery Method		
1,2	CO1: Manage the scope, cost, timing, and quality of the project, at all times focused on project success as defined by project stakeholders	1.1 Conventional Software Management :,	T1 R1	1	Chalk & Board		
		1.1.2 The waterfall model,. :,		1			
		1.1.3 Conventional software management performance		1			
		1.2 Evolution of Software Economics		1	Power point presentations		
		1.2.1 Software Economics		1			
		1.2.2 Pragmatic software cost estimation		1			
		COURSE BEYOND SYLLABUS					
		Challenges in software projects			1	Assignment	
		Stakeholders			1	Test	
		Total				08	
Week No.	Course Outcome	UNIT II Topics/Activity	Text Book	Contact Hours	Delivery Method		

Week No.	Course Outcome	UNIT III Topics/Activity	Text Book Reference	Contact Hours	Delivery Method
3,4,5	CO2: Align the project to the organization's strategic plans and business justification throughout its lifecycle	2.1 Improving Software Economics: Reducing Software product size	T1	1	Chalk & Board, Power point presentations Assignment Test
		2.1.1 Improving software processes for ISE		1	
		2.1.2 Improving team effectiveness, Improving automation for ISE		1	
		2.1.3 Achieving required quality, Peer inspections for ISE		1	
		2.2 The old way and the new: The principles of conventional software engineering,		1	
		2.2.1 Principles of modern software management, Transitioning to an iterative process.		1	
		2.3 Life cycle phases: Engineering and production stages		1	
		2.3.1 Inception & Elaboration phases		1	
		2.3.2 Construction & Transition phases		1	
		COURSE BEYOND SYLLABUS		1	
		Project activities			
		Effort estimation		1	
		Total			
6,7,8	CO3: Identify project goals, constraints, deliverables, performance criteria, control needs, and resource requirements in consultation with stakeholders	3.1 Artifacts of the process: The artifact sets	T1	1	Chalk & Board Power point presentations Assignment Test
		3.1.2 Management artifacts		1	
		3.1.3 Engineering artifacts, pragmatic artifacts		1	
		3.2 Model based software architectures: A Management perspective		1	
		3.2.1 Technical perspective		1	
		3.3 Work Flows of the process: Software process workflows		1	
		3.3.1 iteration workflows		1	
		COURSE BEYOND SYLLABUS			
		Function Point analysis		1	
		SLOC		1	

		COCOMO		1	
		Total		10	
<u>Model Assignment and Test Questions</u>					
MID EXAMINATION – I					
Week No.	Course Outcome	UNIT IV Topics/Activity	Text Book Reference	Contact Hours	Delivery Method
10,11, 12	CO4: Implement project management knowledge, processes, lifecycle and the embodied concepts, tools and techniques in order to achieve project success.	4.1 Checkpoints of the Process: Major Mile Stones	T1	1	Chalk & Board Power point presentations Assignment Test
		4.1.2 Minor Milestones		1	
		4.1.3 Periodic status assessments.		1	
		4.2 Iterative Process Planning: Work breakdown structures		1	
		4.2.1 planning guidelines		1	
		4.2.2 cost and schedule estimating		1	
		4.2.3 Iteration planning process		1	
		4.2.4 Pragmatic planning			
		4.3 Project Organizations and Responsibilities:		1	
		4.3.1 Line-of-Business Organizations,		1	
		4.3.2 Project Organizations		1	
		4.3.3 Evolution of Organizations		1	
		COURSE BEYOND SYLLABUS			
		Project Monitoring		1	
		Total	13		

Week No.	Course Outcome	UNIT V Topics/Activity	Text Book Reference	Contact Hours	Delivery Method
13,14	CO5: Demonstrate a strong working knowledge of ethics and professional responsibility	5.1 Process Automation: Automation Building Blocks	T1	1	Chalk & Board Power point presentations Assignment Test
		5.1.1 The Project Environment.		1	
		5.2 Project Control and Process instrumentation: The server core metrics		1	
		5.2.1 Management indicators, Quality indicators		1	
		5.2.2 life cycle expectations		1	
		5.2.3 Pragmatic software Metrics		1	
		5.2.4 Metrics automation		1	
		COURSE BEYOND SYLLABUS			
		Progress monitoring		1	
		Monitoring Control		1	
		Total		09	

Model Assignment and Test Questions

Week No.	Course Outcome	UNIT VI Topics/Activity	Text Book Reference	Contact Hours	Delivery Method
15,16, 17	CO6: Demonstrate effective organizational leadership and change skills for managing projects, project teams and stakeholders	6.1 Tailoring the process	T1 R1	1	Chalk & Board Power point presentations Assignment Test
		6.1.1 process discriminants		1	
		6.1.2 modern project profiles		1	
		6.1.3 next generation software economics		2	
		COURSE BEYOND SYLLABUS			
		Software Quality Planning Quality		1	
		Capability Maturity Model		1	
		Cost monitoring		1	
		Total		08	

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MID-II Examinations

TOTAL NO. OF CLASSES PROPOSED: 59

TEXT BOOKS:	
S.NO	AUTHORS, BOOK TITLE, EDITION, PUBLISHER, YEAR OF PUBLICATION
1.	Walker Royce, “Software Project Management”, Pearson Education, 20010.
REFERENCE BOOKS:	
S.NO	AUTHORS, BOOK TITLE, EDITION, PUBLISHER, YEAR OF PUBLICATION
1	Bob Hughes and Mike Cotterell, Software Project Management, Tata McGraw-Hill Edition, 2010.
2	Joel Henry, Software Project Management, Pearson Education, 2012.
3	Software Project Management in practice, Pankaj Jalote, Pearson Education
WEB DETAILS:	
1	https://www.geeksforgeeks.org/software-engineering-software-project-management-spm/
2	https://www.tutorialspoint.com/software_engineering/software_project_management.htm
3	https://www.javatpoint.com/software-project-management
4	https://lecturenotes.in/notes/26598-note-for-software-project-management-spm-by-subhalaxmi-sabat.

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