

#### Swarnandhra College of Engineering & Technology Autonomous and recognized under 2(F) and 12(B) by UGC

Recognized by AICTE, permanently affiliated to JNTUK Kakinada Accredited by NAAC with 'A' Grade (2<sup>nd</sup> Cycle)

Seetharamapurm , Narsapur – 530280 (Andhra Pradeslį)



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Content be syllabu

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# DEPARTMENT OF INFORMATION TECHNOLOGY TEACHING PLAN

SOFT ENG  E OUTCO  Discuss ale  Analyze the control of the control	OMES  cout softwhe planni	NG ware develo	IV	IT	5	2023	3-2024	03-01-2024			
Discuss ab Analyze tl Understan	oout softv	ware develo	opment proc					03-01-2024			
Analyze tl Understan	he planni	ware develo	pment proc								
Understan		ng and sch		Discuss about software development process models							
Understan			eduling of a	software p	roject						
		The state of the s									
Explain th	ne design	concepts a	nd principle	es -			,				
							ting techniques				
Out Comes / Bloom'	Topics No.	Topics		/	Te Boo	xt ok/		Delivery Method			
CO-1	1.1	The state of the s		are	T1,	R1	1	Chalk & Board			
	1.2			nt process	T1,	R1	1	Power			
	1.3	Agile Dev	velopment		T1,	R1	1	point presentati			
	1.4						1				
	1.5	Project m	anagement		T	3	1	'n			
	1.6	Process &	Project me	etrics	T3.	,R1	1				
	1.7	Object O	riented conc	epts	T4	,R4	1	Assignmen			
	1.8	Principle	S		T4	,R4	1	Test			
	1.9	Methodo	logies			,R4	1	Test			
F	Explain the Recognize Out Comes / Bloom's Level	Explain the design Recognize the kno Out Comes Bloom S Level  1.1  1.2  1.3  1.4  1.5  1.6  1.7  1.8	Inderstand the object oriented explain the design concepts a Recognize the knowledge about Topics No.  Bloom's Level  1.1 Introducti Engineeri 1.2 Software models 1.3 Agile Dev 1.4 Project & 1.5 Project m 1.6 Process & 1.7 Object Or 1.8 Principles	Inderstand the object oriented analysis Explain the design concepts and principle Recognize the knowledge about testing m  Out Comes / No. Bloom, S Level  1.1 Introduction to Softw Engineering 1.2 Software Development models 1.3 Agile Development 1.4 Project & Process 1.5 Project management 1.6 Process & Project me 1.7 Object Oriented conce 1.8 Principles	Inderstand the object oriented analysis  Explain the design concepts and principles  Recognize the knowledge about testing methods and  Out Comes / No.  Topics / Activity  1.1 Introduction to Software Engineering  1.2 Software Development process models  1.3 Agile Development  1.4 Project & Process  1.5 Project management  1.6 Process & Project metrics  1.7 Object Oriented concepts  1.8 Principles	Explain the design concepts and principles  Recognize the knowledge about testing methods and comparison  Out Comes / Bloom' 8 Level  1.1 Introduction to Software Engineering 1.2 Software Development process models 1.3 Agile Development 1.4 Project & Process Topics/ Reference  1.5 Project management 1.6 Process & Project metrics 1.7 Object Oriented concepts 1.8 Principles  Telegraphics  Topics/ Book Reference  Topics/ Book Reference Topics/ Book Reference Topics/ Project software Topics/ Book Reference Topics/ Book	Explain the design concepts and principles  Recognize the knowledge about testing methods and comparison of va  Out Comes / Bloom's Level  1.1	Activity  Topics No.  Introduction to Software Engineering  1.2  Software Development process models  1.3  Agile Development  1.4  Project & Process Project management  1.5  Project management  1.7  Object Oriented concepts  Topics/Activity  Text Book/Referenc t Hour  Text Book/Referenc t Hour  Topics/Activity  Topics/Activity  Text Book/Referenc t Hour  Tin,R1  1  1  1  1  1  1  1  1  1  1  1  1			



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		2.1	Planning& Scheduling	Т2	1	
		2.2	Software Requirements Specification	T2	1	Chalk
		2.3	Software prototyping	T2	1 "	&
		2.4	Software project planning	Т3	1	Board
		2.5	Scope	Т3	1	
П		2.6	Resources	T2	1	Power
	CO-2	2.7	Software Estimation	T2	1	point
	CO-2	2.8	Empirical Estimation Models	T2	1 "	presentatio
		2.9	Planning	T2	1	n
		2.10	Risk Management	Т2	1	Assignment
		2.11	Software Project Scheduling	Т3	1	Test
			2.12	Object Oriented Estimation& Scheduling	T4,R4	1
	Content beyond syllabus		COCOMO Model	T1	1	
- 27	Habus			Total	13	
		3.1	Analysis	T2,R1	1	
		3.2	Introduction for analysis	T2,R1		-
		3.3	Analysis Modeling	T2,R1	1	Chalk
	W.	3.4	Data Modeling	T2,R1	1	& Board
	13.	3.5	Functional Modeling	T1,R1	1	Power
	1	3.6	Information Flow	T1,R1	1	point
	17	3.7	Behavioral Modeling	T1,R1	1	presentation
			G. 1 A -1i-	T1	1	n
Ш	CO-3	3.8	Structured Analysis			-
ш	CO-3	3.8	Object Oriented Analysis	T4	1	Assignmen
ш	CO-3					Assignmen
ш	CO-3	3.9	Object Oriented Analysis	T4	1	Assignmen
ш	CO-3	3.9	Object Oriented Analysis  Domain Analysis	T4	1	·

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## Seetharamapurm , Narsapur – 530280 (Andhra Pradeslų)

		211	Design modeling with UML	T4,R3	1			
		3.14	Design moderning with a state	Total	14			
				T4,R3	1			
		4.1	Design Concepts	T4,R3	1			
		4.2	Design Principles	T4,R3	1			
		4.3	Design Process	T4,R3	1	. 100-100 Hubbarr		
		4.4	Modular Design	T4	1	Chalk		
		4.5	Design Effective Modularity		4	& Board		
		4.6	Introduction to Software Architecture	T2	1			
		4.7	Data Design	T2	1	Power		
***	CO - 4	4.8	Transform Mapping	T2	1	point presentatio		
IV	CO-4	4.9	Transaction Mapping	T4	1	n		
		4.10	Object Oriented Design	T4,R4	1	Assignment		
		4.11	System design process	T4,R4	1			
			4.12	Object design process	T4,R4	1		
		4.13	Design Patterns	T4,R4	1			
	ent beyond	4.14	SOLID Principles	T2	1			
sy	llabus		390000000000000000000000000000000000000	Total	14			
	CO-5	5.1	Implementation, Testing & Maintenance	T2,T3	1	Chalk &		
		5.3	Top - Down	T2,T3	1	Board		
		5.2	Bottom-Up	T2,T3	1	Power		
		5.3	object oriented product	Т2	1	point		
			Implementation & Integration	Т3	1	presentation		
v		5.5		T3	1	n		
		5.0		T3	1	,		
		1 2	5.7	1.6	T3	1	Assignmen	
				5.8		T3	1	1.00.8
		5,9		T3	1	Test		
	N T		5.10 Unit Testing	T3	1	1 est		
	1 3				Integration testing Validation testing	T3	1	



Text Book

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		VI		67				
	5.13	System testing	Т3	1				
	5.14	Testing Tools	Т3	1				
	5.15	Software Maintenance	Т3	1				
	5.16	Reengineering	Т3	1				
			Total	16				
	-	CUMULATIVE PROPO	SED PERIODS	67				
ext Book	s:			A				
		BOOK TITLE, EDITION, PU	BLISHER, YEAR	OF PUB	LICATION			
S.No.								
1	Roger. S. Pressman and Bruce R. Maxim, "Software Engineering – A							
1	Practitioner's Approach", seventh Edition, McGraw Hill,2015.							
2	Ian Sommerville, "Software Engineering", eighth edition, Pearson Education, New							
2	Delhi, 2011			V.				
Reference								
S.No.	AUTHORS, BOOK TITLE, EDITION, PUBLISHER, YEAR OF PUBLICATIO							
1	Fairley R, "Software Engineering Concepts", second edition, Tata McGraw							
	Hill New Delhi 2003							
2	Jalote P, "An Integrated Approach to Software Engineering", third edition,							
	Narosa Publishers, New Delhi,2013.							
Web Deta								
1	https://wwv	v.geeksforgeeks.org/software en	gineering					
2	https://www.tutorialspoint.com/design							

		Name	Signature with Date
i.	Faculty	Ms. U. Jenny grace	n. Jun 2/1/2
ii.	Module Coordinator	Mr. Ch. R. K. Raju	201 311/24
III.	Programme Coordinator	Dr. RVVSV Prasad	Rospand
			길  24

Principal