VELAMMAL COLLEGE OF ENGINEERING & TECHNOLOGY, MADURAL-625 009 DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING 2023-2024 ODD SEMESTER COURSE PLAN

	COLOR L LAND
Degree	BE-CSE
Course Code-Title	21CS304-OBJECT ORIENTED SOFTWARE ENGINEERING
Batch	2022-2026
Year/Semester	III/V
Course Component	Core
Name of the Instructor	K.Santha sheela

Dissemination 2			In annual	I cacilling Alu		TIME STIVE
Disseminatio 1		Book Page No.	Delivery	0	Hours	No. of
Dissemination 1						Hours
1 2	UNII I Intro	Introduction to Software Engineering	e Engineering			
7	Dissemination and Explanation of Vision, Mission(Institute and Department), PEOs, POs, PSOs, Course Objectives and Course Outcomes	rtment),PEOs,POs,PS	Os, Course Objectiv	es and Course Outco	mes	_
	Software engineering	T2(1-6)	T+D	BB		C
8	Software engineering as a branch of the		1		-	7
		12(6-8)	T+D	BB	2	4
3	Stakeholders in software engineering	T2(8-10)	(+)	RRICD	_	v
4	Software quality	T2(10-11)	Q+1	BRICD.	,	0 [
ν,	Software engineering projects	T2(11-14)	Q+1	BB	1 (\
9	Activities common to software projects	T2(14-16)	G+1	DD	7 -	۲ (۱
	Develop a SRS document for an application	(61 11)	U 1	gg	-	_
	IINIT II Coffware Practice Description				Γ	Lab- 3
10	Requirements Elicitation	r Activities				
	A 1	11(16-19)	T+D	BB	1	14
	Analysis	T1(16-19)	T+D	BB	1	15
	Types of requirements	T1(16-19)	L+D	BB	-	16
	Types of requirements document	T1(16-19)	T+D	BB	1	17
	System Design	T1(19-20)	1+D	RRICD	-	10
15.	Object Design	T1(19-20)	(1+D	RR	-	10
16. I	Implementation	T1(19-20)	L+D	BB	1	20
17 T	Testing.	T1(19-20)	Q+1	BRICD		8
Develop the U Develop an Ul	Develop the Use Case model for an application. Develop an UML Activity diagram by Identifying the business activities.	es.		DD,LCD	7	777
dennity the co	definity the conceptual classes to develop a refinement domain model for an application	for an application				Lab- 12
	III LINO		UML			
	Introduction	T1(29-30)	T+D	BB		34
70 A	An Overview of UML	T1(29-30)	T+D	BB	-	35

37 39 41 43	Lab- 15	59	00	62	63	65	99	<i>L</i> 9		89		1/	73	67	75
1 2 2 5				-	- -		-	1		- -	C	7 -		1	1
BB BB BB BB		BB	BB	BB	BB	BB	BB	BB	DD	BB/LCD	BB	BB	BB	BB	BB
L+D L+D L+D L+D L+D al layered, logical	PATTERNS	L+D	L+D	L+D	L+D	L+D	T+D	[+]	c process	T+D	L+D(PS)	T+D	T+D	L+I	L+D
T1(31-32) T1(31-32) T1(31-32) T1(32-33) able objects. ices. Draw the parti	IT IV APPLYING DESIGN PATTERNS	T1(439-440)	T1(440-444)	T1(448-451)	T1(450-451)	T1(451-451)	T1(465-476)	UNIT V Managing the software	T2(425-456)	T2(435-456)	T2(425-456)	T2(449-456)	T2(452-456)	12(452-456)	12(453-456)
21 Use Case Diagrams Interaction Diagrams 22 Class Diagrams Interaction Diagrams 23 State Machine Diagrams 24 Activity Diagrams Build the Interaction diagram for a scenario by identifying suitable objects. Identify the User Interface, Domain objects, and Technical services. Draw the partial layered, logical architecture diagram with UML package diagram notation. Develop Component and Deployment diagrams for an application.	UNI e Space Shuttle	An Overview of Testing Testing Concents	Faults, Erroneous States, and Failures	Test Cases	Testing Activities Component Ingraction	Usability Testing, Unit Testing	Integration Testing, System Testing - Managing Testing		Software process module	Cost estimation	Building software engineering teams	Project scheduling and tracking	Contents of a project plan	Difficulties and risks in project management	0K
21 22 23 24 Build th Identify architec	30	32	33	35	36	37	28	13	4	45	46	47	48	49	EXT BOOK

1. Bernd Bruegge, Allen H.Dutoit," Object-Oriented Software Engineering Using UML, Patterns, and Java", 3rd Edition, Pearson Education 2018.
2. Roger Pressman, "Software Engineering: A Practitioner's Approach", 7th Edition, McGraw-Hill, 2020.

3. Ian Sommerville, "Software Engineering", 9th Edition, Addison-Wesley, 2016

REFERENCES:

1. Rajib Mall, "Fundamentals of Software Engineering", 4th Edition, PHI Learning Publications 2020.

2. G.P. Bherde Deven, N. Shah, "Object Oriented Software Engineering", 4th Edition, Dream Tech Publisher 2010.

3. Grady Booch, Robert A. Maksimchuk, Michael W. Engle, Bobbi J. Young, Ph.D., Jim Conallen, Kelli A. Houston, "Object-Oriented Analysis

Course Incharge

Module Coordinator

HoD/CSE