SWARNANDHRA COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous)

Narsapur, West Godavari District, A.P. 534280

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

TEACHING PLAN

Course Code	Course Title	Semester	Branches	Contact Periods /Week	Academic Year	Date of commencement of Semester
20CS6 T02	OBJECT ORIENTED ANALYSIS & DESIGN	VI	CSE	5	2024-2025	18-11-2024

COURSE OUTCOMES

1	Identify the importance of modeling and object-oriented systems analysis and design (K2)
2	Design the basic structural modeling techniques using building blocks of UML.(K3)
3	Apply common modeling techniques for class and object diagrams(K3)
4	Generalize the basic behavioral and advanced behavioral modeling diagrams.(K2)
5	Illustrate the components and deployment diagrams (K4)

UNIT	CO	Topics No.	Topics/Activity	Text Book / Reference	Contact Hour	Deliverymethod
I	Identify the importance of modeling andobject-oriented systems	1.1	Introduction to UML	T1	1	Chalk and talk
		1.2	Importance of modeling	T1	1	Chalk and talk
		1.3	principles of modeling	T1	1	PPT
		1.4	object oriented modeling	T1	1	Chalk and talk
		1.5	conceptual model of the UML	T1	2	Flipped teaching
		1.6	Architecture	T1	1	Chalk and talk
		1.7	Software Development Life Cycle	T1	1	Active Learning
				Total	08	
II	Design the basic structural modeling techniques using building blocks of	2.1	Classes	T1	1	Chalk and talk
		2.2	Relationships	T1	1	PPT
		2.3	Common Mechanisms	T1	1	Flipped teaching
		2.4	Diagrams		2	PPT
		2.5	Advanced Structural Modeling:	T1	1	Chalk and talk
		2.6	Advanced classes	T	2	PPT
		2.7	Advanced relationships	T1	1	Chalk and talk

	Total	09

III	Apply common modeling techniques for class and object diagrams(K3)	3.1	Class & Object Diagrams: Introduction	T1	1	Chalk and talk
		3.2	Terms and concepts of Class Diagrams	T1	2	Chalk and talk
		3.3	modeling techniques for Class Diagrams	T1	2	PPT
		3.4	Terms and concepts of Object Diagrams	T1	2	Chalk and talk
		3.5	Modeling techniques for Object Diagrams.	T1	2	Flipped teaching
		Content beyond Syllabus	**ATM application class andobject diagram**	T1	1	PPT
				Total	10	
IV	Generalize the basic behavioral and advanced behavioral modeling diagrams.(K2)	4.1	Interactions	T1	1	Chalk and talk
		4.2	Interaction diagrams	T1	1	Chalk and talk
		4.3	Sequence diagram	T1	1	Chalk and talk
		4.4	Collaboration diagram	T1	1	Chalk and talk
		4.5	Basic Behavioral Modeling - II:	T1	1	PPT
		4.6	Use cases	T1	1	Chalk and talk
		4.7	Use case Diagrams	T1	2	Flipped teaching
		4.8	Activity Diagrams	T1	1	Chalk and talk
		4.9	Advanced Behavioral Modeling: Events	T1	1	PPT
		4.10	Signals	T1	1	Chalk and talk
		4.11	state machines	T1	1	Chalk and talk
		4.12	state chart diagrams	T1	1	Chalk and talk
Total					13	

V	Illustrate the components and deployment diagrams(K3)	5.1	Components	T1&T2	1	Chalk and talk
		5.2	Terms and concepts of Components	T1&T2	1	Chalk and talk
		5.3	Deployment	T1&T2	1	Chalk and talk
		5.4	Component diagrams	T1	1	Flipped teaching
		5.5	Modeling techniques	T1&T2	1	Chalk and talk
		5.6	Terms and concepts of Components diagrams	T1	1	PPT
		5.7	Deployment diagram	T1&T2	1	Chalk and talk
		5.8	Terms and concepts of Deployment diagram	T1	1	Chalk and talk
		5.9	Modeling techniques	T1&T2	1	Chalk and talk
		Content beyond Syllabus	AIRLINE TICKET RESERVATION SYSTEM		1	PPT
				Total	10	
				CUMULATIVE PROPOSED PERIODS	60	

Text Books:

S.No.	AUTHORS, BOOK TITLE, EDITION, PUBLISHER, YEAR OF PUBLICATION
1	Grady Booch, James Rum Baugh, Ivar Jacobson The Unified Modeling Language User Guide,5th edition , Pearson Education 2009
2	Hans - Erik Eriksson, Magnus Penker, Brian Lyons, David Fado, UML 2 Toolkit,3rd edition , WILEY - Dream tech India Pvt. Ltd. 2006

Reference Books:	
S.No.	AUTHORS, BOOK TITLE, EDITION, PUBLISHER, YEAR OF PUBLICATION
1	D.JAYA MALA, Object Oriented Analysis and Design Using UML, Tata McGrawm-Hill Education,2013
2	JAMES J.ODELL, Advanced Object-Oriented Analysis and Design Using UML
Web Details	
1	http://en.wikipedia.org/wiki/Software_development_process
2	http://en.wikipedia.org/wiki/Rational_Unified_Process
3	http://www.uml-diagrams.org/profile-diagrams.html
4	**https://www.tutorialspoint.com/uml/uml_building_blocks.htm**
5	**https://www.uml.org/**

		Name	Signature with Date
i.	Faculty I	Dr. S Gopinath	
ii.	Faculty II	Mr. V S Ramakrishna	
iii	Faculty III	Mr. V John Bunyan	
iv.	Faculty IV	Mr. B S Vara Prasad	
v.	Faculty V	Mrs. V Srilakshmi	
iv.	Course Coordinator	Mr. M Satyanarayana	
v.	Module Coordinator	Mr. N Tulasi Raju	
vi.	Programme Coordinator	Dr. P Srinivasulu	

HOD

Principal