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### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### **TEACHING PLAN**

Course Code	Course Title		Semester	Branches	Contac Period /Week	s Acad		Date of commencement of Semester	
BTCS6 T02	OBJECT ORIENTED ANALYSIS & DESIGN		VI	CSE	5	2019	9-20	25-11-2019	
COUR	COURSE OUTCOMES								
1	Identify the importance of modeling and object-oriented systems analysis and design (K1)							esign (K1)	
2	Design the basic structural modeling techniques using building blocks of UML.(K6)						(K6)		
3	Explain commo	n modeling	techniques fo	or class and ol	bject diag	grams. (K2	2)		
4	Describe the bas					ng diagran	ns. (K1)	)	
5	Illustrate the con	mponents ar	nd deploymen	t diagrams (	K3)				
6	Apply Forward					(K3)			
UNIT	СО	Topics No.	Тор	ics/Activity		Text Book / Referen ce	Conta ct Hour	Delivery method	
	and Id	1.1	Introduction	to UML		<b>T1</b>	1	Chalk and talk	
	ing s an	1.2	Importance of	of modeling		<b>T1</b>	1	Chalk and talk	
	deli ysis	1.3	principles of	modeling		<b>T1</b>	1	Chalk and talk	
	noc	1.4	object oriente	ed modeling		<b>T1</b>	1	Chalk and talk	
	of 1 s al l)	1.5	conceptual m	nodel of the U	JML	<b>T1</b>	1	Chalk and talk	
	em (K)	1.6	conceptual m	nodel of the U	JML	<b>T1</b>	1	Chalk and talk	
Ι	tan yst gn	1.7	Architecture			<b>T1</b>	1	Chalk and talk	
	mportance o nted systems design (K1)	1.8	Software Dev Cycle	velopment Li	fe	<b>T1</b>	1	Chalk and talk	
	entify the importance of modeling an object-oriented systems analysis and design (K1)	1.9	Software Dev Cycle	velopment Li	fe	<b>T1</b>	1	Chalk and talk	
	Identify the importance of modeling and object-oriented systems analysis and design (K1)	Identif	Content beyond Syllabus	Unified proce	ess		<b>T1</b>	1	РРТ
Total 10									
	basic structural modeling techniques using building blocks of	2.1	Classes			<b>T1</b>	1	Chalk and talk	
		2.2	Relationship	8		<b>T1</b>	1	Chalk and talk	
тт		n uct uct duc jin jild sild	2.3	Common Me			<b>T1</b>	1	Chalk and talk
II	sus str str ode bl bl ock		Diagrams				1	Chalk and talk	
	bl bl	2.5	Advanced St	ructural Mod	eling:	<b>T1</b>	1	Chalk and talk	
	p; n	2.6	Advanced cla			<b>T1</b>	1	Chalk and talk	



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IV Provide an analysis of the second syntabus		Exp techn	beyond		T1	1	PPT
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beyond Syllabus Credit card validation Usecase and activity diagram T1 1					T1	1	
beyond Syllabus Credit card validation Usecase and activity diagram T1 1			4.2	Interaction diagrams	T1 T1	1 1	Chalk and talk
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beyond Syllabus Credit card validation Usecase and activity diagram T1 1		idvanced (K1)	4.2 4.3 4.4	Interaction diagrams Sequence diagram Collaboration diagram	T1 T1 T1 T1 T1	1 1 1 1	Chalk and talk Chalk and talk Chalk and talk
beyond Syllabus Credit card validation Usecase and activity diagram T1 1		ld advanced ns. (K1)	4.2 4.3 4.4 4.5	Interaction diagrams Sequence diagram Collaboration diagram Basic Behavioral Modeling - II:	T1 T1 T1 T1 T1 T1	1 1 1 1 1	Chalk and talk Chalk and talk Chalk and talk Chalk and talk
beyond Syllabus Credit card validation Usecase and activity diagram T1 1		and advanced rams. (K1)	4.2 4.3 4.4 4.5 4.6	Interaction diagrams Sequence diagram Collaboration diagram Basic Behavioral Modeling - II: Use cases	T1 T1 T1 T1 T1 T1 T1	1 1 1 1 1 1 1	Chalk and talk Chalk and talk Chalk and talk Chalk and talk Chalk and talk
beyond Syllabus Credit card validation Usecase and activity diagram T1 1		aral and advanced iagrams. (K1)	4.2 4.3 4.4 4.5 4.6 4.7	Interaction diagrams Sequence diagram Collaboration diagram Basic Behavioral Modeling - II: Use cases Use case Diagrams	T1 T1 T1 T1 T1 T1 T1 T1 T1	1 1 1 1 1 1 1 1	Chalk and talk Chalk and talk Chalk and talk Chalk and talk Chalk and talk Chalk and talk
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beyond Syllabus Credit card validation Usecase and activity diagram T1 1	IV	: behavioral and advanced deling diagrams. (K1)	4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9	Interaction diagrams Sequence diagram Collaboration diagram Basic Behavioral Modeling - II: Use cases Use case Diagrams Activity Diagrams Modeling techniques Advanced Behavioral Modeling:	T1 T1 T1 T1 T1 T1 T1 T1 T1 T1 T1	1 1 1 1 1 1 1 1 1 1 1	Chalk and talk Chalk and talk
beyond Syllabus Credit card validation Usecase and activity diagram T1 1	IV	usic behavioral and advanced modeling diagrams. (K1)	4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 4.10	Interaction diagrams Sequence diagram Collaboration diagram Basic Behavioral Modeling - II: Use cases Use case Diagrams Activity Diagrams Modeling techniques Advanced Behavioral Modeling: Events	T1         T1	1 1 1 1 1 1 1 1 1 1 1 1	Chalk and talk Chalk and talk
beyond Syllabus Credit card validation Usecase and activity diagram T1 1	IV	basic behavioral and advanced al modeling diagrams. (K1)	$ \begin{array}{r}     4.2 \\     4.3 \\     4.4 \\     4.5 \\     4.6 \\     4.7 \\     4.8 \\     4.9 \\     4.10 \\     4.11 \\ \end{array} $	Interaction diagrams Sequence diagram Collaboration diagram Basic Behavioral Modeling - II: Use cases Use case Diagrams Activity Diagrams Modeling techniques Advanced Behavioral Modeling: Events Signals	T1 T1 T1 T1 T1 T1 T1 T1 T1 T1 T1 T1	1 1 1 1 1 1 1 1 1 1 1 1 1 1	Chalk and talk Chalk and talk
beyond Syllabus Credit card validation Usecase and activity diagram T1 1	IV	the basic behavioral and advanced ioral modeling diagrams. (K1)	$ \begin{array}{r}     4.2 \\     4.3 \\     4.4 \\     4.5 \\     4.6 \\     4.7 \\     4.8 \\     4.9 \\     4.10 \\     4.11 \\     4.12 \\ \end{array} $	Interaction diagrams Sequence diagram Collaboration diagram Basic Behavioral Modeling - II: Use cases Use case Diagrams Activity Diagrams Modeling techniques Advanced Behavioral Modeling: Events Signals state machines	T1 T1 T1 T1 T1 T1 T1 T1 T1 T1 T1 T1 T1 T	1 1 1 1 1 1 1 1 1 1 1 1 1 1	Chalk and talk Chalk and talk
beyond Syllabus Credit card validation Usecase and activity diagram T1 1	IV	be the basic behavioral and advanced navioral modeling diagrams. (K1)	$ \begin{array}{r}     4.2 \\     4.3 \\     4.4 \\     4.5 \\     4.6 \\     4.7 \\     4.8 \\     4.9 \\     4.10 \\     4.11 \\     4.12 \\     4.13 \\ \end{array} $	Interaction diagrams Sequence diagram Collaboration diagram Basic Behavioral Modeling - II: Use cases Use case Diagrams Activity Diagrams Modeling techniques Advanced Behavioral Modeling: Events Signals state machines processes and Threads	T1 T1 T1 T1 T1 T1 T1 T1 T1 T1 T1 T1 T1 T	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Chalk and talk Chalk and talk
beyond Syllabus Credit card validation Usecase and activity diagram T1 1	IV	cribe the basic behavioral and advanced behavioral modeling diagrams. (K1)	$\begin{array}{r} 4.2 \\ 4.3 \\ 4.4 \\ 4.5 \\ 4.6 \\ 4.7 \\ 4.8 \\ 4.9 \\ 4.10 \\ \hline 4.11 \\ 4.12 \\ 4.13 \\ 4.14 \\ \end{array}$	Interaction diagrams Sequence diagram Collaboration diagram Basic Behavioral Modeling - II: Use cases Use case Diagrams Activity Diagrams Modeling techniques Advanced Behavioral Modeling: Events Signals state machines processes and Threads time and space	T1 T1 T1 T1 T1 T1 T1 T1 T1 T1 T1 T1 T1 T	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Chalk and talk Chalk and talk
	IV	Describe the basic behavioral and advanced behavioral modeling diagrams. (K1)	$\begin{array}{r} 4.2 \\ 4.3 \\ 4.4 \\ 4.5 \\ 4.6 \\ 4.7 \\ 4.8 \\ 4.9 \\ 4.10 \\ 4.11 \\ 4.12 \\ 4.13 \\ 4.14 \\ 4.15 \\ \end{array}$	Interaction diagrams Sequence diagram Collaboration diagram Basic Behavioral Modeling - II: Use cases Use case Diagrams Activity Diagrams Modeling techniques Advanced Behavioral Modeling: Events Signals state machines processes and Threads time and space state chart diagrams.	T1 T1 T1 T1 T1 T1 T1 T1 T1 T1 T1 T1 T1 T	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Chalk and talk Chalk and talk
	IV	Describe the basic behavioral and advanced behavioral modeling diagrams. (K1)	4.2         4.3         4.4         4.5         4.6         4.7         4.8         4.9         4.10         4.11         4.12         4.13         4.14         4.15         Content         beyond	Interaction diagramsSequence diagramCollaboration diagramBasic Behavioral Modeling - II:Use casesUse case DiagramsActivity DiagramsModeling techniquesAdvanced Behavioral Modeling:EventsSignalsstate machinesprocesses and Threadstime and spacestate chart diagrams.Credit card validation Usecase	T1 T1 T1 T1 T1 T1 T1 T1 T1 T1 T1 T1 T1 T	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Chalk and talk Chalk and talk



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		<b>E 1</b>	Componento	T10T2	1	
	$\sim$	5.1	Components	T1&T2	1	Chalk and talk
	am	5.2	Terms and concepts of	T1&T2	1	Chalk and talk
	agr	5 2	Components	Т1 0 Т1	1	
	dia	5.3	Deployment	T1&T2	1	Chalk and talk
	ent	5.4	Modeling techniques	T1	1	Chalk and talk
	Illustrate the components and deployment diagrams (K3)	5.5	Terms and concepts of Deployment	T1&T2	1	Chalk and talk
	plo	5.6	Modeling techniques	T1	1	Chalk and talk
	de	5.7	Component diagrams	T1&T2	1	Chalk and talk
v	nd	5.8	Modeling techniques	T1&12 T1	1	Chalk and talk
v	s a	5.0			L	
	ent	5.9	Terms and concepts of	T1&T2	1	Chalk and talk
	uou	- 10	Components diagrams			
	dm	5.10	Deployment diagram	T1&T2	1	Chalk and talk
	co	5.11	Terms and concepts of	T1&T2	1	Chalk and talk
	he		Deployment diagram			
	te t	5.12	Modeling techniques	T1&T2	1	Chalk and talk
	tra	Content				
	(K3)	beyond	PAYTM APPLICATION		1	PPT
	П (]	Syllabus				
				Total	13	
		6.1	The Unified Library application	T1&T2	1	РРТ
<b>X</b> / <b>T</b>	ly.	6.2	Usecase diagram	T1&T2	1	РРТ
VI	ng tud	6.3	Class and object diagram	T1&T2	1	РРТ
	erii e s	6.4	Interaction diagrams	T1&T2	1	РРТ
	ine	6.5	Activity diagram	T1&T2	1	РРТ
Content beyond Syllabu s (if needed)	ly Forward engineering ues for a given case study (K3)	6.6	Statechart diagram	R1	1	РРТ
Content beyond Syllabu s	Apply techniqu	Content beyond Syllabus	Railway reservation system case study	R1	1	РРТ
				Total	7	
CUMULATIVE PROPOSED PERIODS 65						
Text Books:						
S.No.	AUTHORS,	AUTHORS, BOOK TITLE, EDITION, PUBLISHER, YEAR OF PUBLICATION				
1	Grady Booch, James Rum Baugh, Ivar Jacobson The Unified Modeling Language User Guide,5 <sup>th</sup>					
	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					



Accredited by National Board of Accreditation, AICTE, New Delhi, Accredited by NAAC with "A" Grade – 3.32 CGPA, Recognized under 2(f) & 12(B) of UGC Act 1956, Approved by AICTE, New Delhi, Permanent Affiliation to JNTUK, Kakinada Seetharampuram, W.G.DT., Narsapur-534280, (Andhra Pradesh)

Referen	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 De	tails						
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/						

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iii.	Course Coordinator	Mr.M.Satyanarayana	
iv.	Module Coordinator	N.Tulasi Raju	
v.	Programme Coordinator	Dr.P.Srinivasulu	

Principal