r. Skill	ENTED MOD	DELING AND DESIG	'N	
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(Effective fr	om the acade	шіс vear 2017_2010\	nej	
Subject Code	SEMESIE	R-V		
	17CS551	IA Marks	40	1
Number of Lecture Hours/Week	3	Exam Marks		
Total Number of Lecture Hours	40	Exam Hours	60	
Module – 1	CREDITS	-03	03	
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Introduction Modelling C		d.		Teaching
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Sample class model. Noview	Pro, Gene	ralization and Inherit	tance. A	1
Advanced object and alass		, Advanced Class M	Odelling	
Aggregation; Abstract classes, M.	1	on ends; N-ary asso	ciations:	
Constraints: Derived Data: Paging	uitipie inheri	tance; Metadata; Rei	ification:	
1 ext Book-1: Ch 1, 2, 3 and 4	i.	4.5	,	
Module – 2				
UseCase Modelling and Detailed oriented Requirements definitions; S	Desi			
oriented Requirements definitions; Sidentifying Input and outputs-The St	requirements:	: Overview; Detailed	object-	8 Hours
dentificant	ysiem Process	CAC A 10	3	
dentifying input and outputs. The Co	roto	use case/Scenar	io view:	- 120413
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Benaviour-The state chart Diagram; I Fext Book-2:Chapter- 6:Page 210 t Module – 3	ntegrated Obje	ce diagram; Identifying ect-oriented Models.	io view; g Object	120413
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- Describe the concepts of object-oriented and basic class modelling.
- Draw class diagrams, sequence diagrams and interaction diagrams to solve problems.
- Choose and apply a befitting design pattern for the given problem.

Question paper pattern:

The question paper will have TEN questions.

There will be TWO questions from each module.

Each question will have questions covering all the topics under a module.

The students will have to answer FIVE full questions, selecting ONE full question from each module.

Text Books:

- 1. Michael Blaha, James Rumbaugh: Object Oriented Modelling and Design with UML,2nd Edition, Pearson Education,2005
- 2. Satzinger, Jackson and Burd: Object-Oriented Analysis & Design with the Unified Process, Cengage Learning, 2005.
- 3. Erich Gamma, Richard Helm, Ralph Johnson and john Vlissides: Design Patterns Elements of Reusable Object-Oriented Software, Pearson Education, 2007.

Reference Books:

- 1. Grady Booch et. al.: Object-Oriented Analysis and Design with Applications, 3rd Edition, Pearson Education, 2007.
- 2. 2.Frank Buschmann, RegineMeunier, Hans Rohnert, Peter Sommerlad, Michel Stal: Pattern -Oriented Software Architecture. A system of patterns, Volume 1, John Wiley and Sons.2007.
- 3. 3. Booch, Jacobson, Rambaugh: Object-Oriented Analysis and Design with Applications, 3rd edition, pearson, Reprint 2013