J. B. INSTITUTE OF ENGINEERING AND TECHNOLOGY



Course Plan For

Object Oriented Analysis & Design

III B. Tech(CSE)

I SEMESTER

ACADEMIC YEAR

2015-16

D. Jyothsna

Assistant Professor

WWW.JBIET.EDU.IN



COURSE PLAN

2015-16

Regulation: R12

FACULTY DETAILS:

Name of the Faculty:: D. Jyothsna

Designation: Assistant Prof

Department:: Computer Science & Engineering

1. TARGET

a) Percentage Pass:: 100

b) Percentage I class::85

COURSE PLAN

(Please write how you intend to cover the contents: i.e., coverage of Units by lectures, guest lectures, design exercises, solving numerical problems, demonstration of models, model preparation, or by assignments, etc.)

METHOD OF EVALUATION

- 3.1. Continuous Assessment Examinations (CAE 1, CAE 2)
- 3.2. Assignments / Seminars
- 3.3. Mini Projects
- 3.4. Quiz
- 3.5. Term End Examination
- 3.6. Others
- 4. List out any new topic(s) or any innovation you would like to introduce in teaching the subject in this Semester.

 - Working on Applications like
 i. Online Book Shopping
 ii. Library Management System
 iii. Online marketing

 - iv. E Seva
 - v.
 - Online School/ College management
 Online Training Course
 Online Auction System
 Online Voting
 Online Job Searching
 Online Job Searching vi. V11.
 - viii.
 - ix.
 - Online Mapping





GUIDELINES TO STUDY THE SUBJECT

Regulation: R12

FACULTY DETAILS:

Name of the Faculty:: D. Jyothsna

Designation: Assistant Professor

Department:: Computer Science & Engineering

Guidelines for Preparing the Course:

Course Description:

Object Oriented Analysis & Design is a course which gives the information of Software Designing and helps in designing the software applications.

Course Objectives:

- 1. Importance of Modelling
- 2. Classes and Relationships
- 3. Object Diagrams
- 4. Interactions
- 5. Usecases
- 6. Advanced Behavioral Modelling
- 7. To Learn about the Documenting the Software Intensive System

Learning Outcomes:

Designing of software application. The student will know the modelling language. He/She will get an idea of problem solving and learn to draw UML diagrams.



COURSE OBJECTIVES

2015-16

Regulation: R12

FACULTY DETAILS:

Name of the Faculty:: D. Jyothsna Designation:: Assistant Professor Department:: CSE

On completion of this Subject / Course the student shall be able to:

S.No.	Objectives	Outcomes
1.		
	To Understand the concept of Modelling	Modelling
2.	To Understand the concept of classes and relationships.	Classes and relationships
3.	To Understand the concept of Class & Object Diagrams	Class and Object
4.	To Understand Interactions, Interaction diagrams.	Basic behavioral modelling_1
5.	To Understand Use case and Activity diagrams	Basic behavioural modelling -2
6.	To Understand Events and signals, state machines, processes and Threads, time and space, state chart diagrams.	Advanced Behavioural modelling
7.	To Understand Component, Deployment, Component diagrams and Deployment diagrams.	Component and deployment
8.	To Understand Unified Library Application.	Library Application

Signature of Faculty Date:

Note: For each of the OBJECTIVE indicate the appropriate OUTCOMES to be achieved. Kindly refer Page 16, to know the illustrative verbs that can be used to state the objectives.



COURSE OUTCOMES

2015-16

Regulation: R12

FACULTY DETAILS:

Name of the Faculty:: D. Jyothsna

Designation:
Department:: Assistant Professor

Computer Science & Engineering

The expected outcomes of the Course / Subject are:

S.No.	General Categories of Outcomes	Specific Outcomes of the Course
A.	An ability to apply knowledge of mathematics, science, and engineering	Yes
B.	An ability to design and conduct experiments, as well as to analyze and interpret data	Yes
C.	An ability to design a system, component, or process to meet desired needs within realistic Constraints such as economic, environmental, social, political, ethical, health and safety, Manufacturability and sustainability	Yes
D.	An ability to function on multi-disciplinary teams	Yes
E.	An ability to identify, formulate, and solve engineering problems	Yes
F.	An understanding of professional and ethical responsibility	Yes
G.	An ability to communicate effectively	Yes
Н.	The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context	Yes
I.	A recognition of the need for, and an ability to engage in life-long learning	Yes
J.	A knowledge of contemporary issues	Yes
K.	An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.	Yes

Objectives – Outcome Relationship Matrix (Indicate the relationships by ⊠ mark).

OutComes\Objectives	A	В	C	D	E	F	G	H	I	J	K
1	X	X	X	X	X	X	X	X	X	X	X
2	X	X	X	X	X	X	X	X	X	X	X
3	X	X	X	X	X	X	X	X	X	X	X
4	X	X	X	X	X	X	X	X	X	X	X
5	X	X	X	X	X	X	X	X	X	X	X
6	X	X	X	X	X	X	X	X	X	X	X
7	X	X	X	X	X	X	X	X	X	X	X
8	X	X	X	X	X	X	X	X	X	X	X
9	X	X	X	X	X	X	X	X	X	X	X
10	X	X	X	X	X	X	X	X	X	X	X





COURSE SCHEDULE

2015-16

Regulation: R12

FACULTY DETAILS:

Name of the Faculty:: D. Jyothsna
Designation:: Assistant Professor
Department::Computer Science & Engineering
The Schedule for the whole Course / Subject is::
Object Oriented Analysis & Design

S. No.	Description	Duration	Duration (Date)			
	Description	From	То	of Periods		
1.						
	The state of TDM	14 10 15	10 10 15	_		
	Introduction to UML	14-12-15	19-12-15	5		
2.	Basic Structural modelling and					
	Busic Structural moderning and					
	Advanced Structural modeling					
		21-12-15	6-1-16	10		
3.	Class and Object diagrams					
		7-1-16	23-1-16	8		
4.		25-1-16	4-2-16	8		
	Basic behavioral modeling-I					
5.		15-2-16	25-2-16	8		
	Basic behavioral modeling-II					
6.		26.2.16	5 2 1 6			
	Advanced behavioral modeling	26-2-16	5-3-16	7		
7				o		
7	A rahitaatural Rahaviaral modaling	7-3-16	17-3-16	8		
	Architectural Behavioral modeling	/-3-10				
8			Last			
0	Unified Library Application	18-3-16	Working day	8		
	Omnou Library Application	10-5-10	uay	U		

Total No. of Instructional periods available for the course:

Hours / Periods 60



UNIT - I

2015-16

Regulation: R12

FACULTY DETAILS:

Name of the Faculty:: D. Jyothsna Designation:: Assistant Professor Department::CSE

The Schedule for the whole Course / Subject

is::OOAD

	I			Objectives &	References
SI.		No. of		Outc	releiences
N	Date	D. C. I.	Topics / Sub - Topics	ome	(Text Book, Journal)
No.		Periods	·	Nos.	Page No to
			Importance of modeling,		The Unified Modeling
	14-12-		Principles of modelling	Modelling,	language User Guide 27-
1	15	1		Principles	33
			OO modeling, Conceptual		The Unified Modeling
			Model introduction		language User Guide 35-
	16-12-				39
2	15	1		OOM	
			Conceptual model of the UML		The Unified Modeling
				Modellin	language User Guide 39-
	17-12-			g	51
3	15	1		Concepts	
			Overview of UML and	UML	
			Architecture	Overview	
				and	The Unified Modeling
	18-12-			Architect	language User Guide 52-
4	15	1		ure	55
			Software development life		The Unified Modeling
	19-12-		cycle		language User Guide 55-
5	15	1		SDLC	57

Signature of Faculty Date

Note: 1. ENSURE THAT ALL TOPICS SPECIFIED IN THE COURSE ARE MENTIONED.

- 2. ADDITIONAL TOPICS COVERED, IF ANY, MAY ALSO BE SPECIFIED **BOLDLY**.
- 3. MENTION THE CORRESPONDING COURSE OBJECTIVE AND OUT COME NUMBERS AGAINST EACH TOPIC.



UNIT - II

2015-16

Regulation: R12

FACULTY DETAILS:

Name of the Faculty:: D. Jyothsna Designation:: Assistant Prof Department:: CSE The Schedule for the whole Course / Subject is::OOAD

SI. No.	Date	No. of Periods	Topics / Sub - Topics	Objectives & Outcome Nos.	References (Text Book, Journal) Page No to
1	21-12- 15	1	Basic Structural modeling	Basic about Classes	The Unified Modeling language For Designer & Learner By Graddy Booch, Ivar Jacobson, james Rumbaugh Pages 49-65
2	23-12- 15	1.5	Classes	Cla sse s	The Unified Modeling language For Designer & Learner By Graddy Booch, Ivar Jacobson, james Rumbaugh Pages 49-65
3	28-12- 15	1.5	Relationships	Rel atio ns	The Unified Modeling language For Designer & Learner By Graddy Booch, Ivar Jacobson, james Rumbaugh Pages 49-65
4	30-12- 15	1	Common mechanisms	Co mm on Me cha nis ms	The Unified Modeling language For Designer & Learner By Graddy Booch, Ivar Jacobson, james Rumbaugh Pages 49-65
5	31-12- 15	1	Diagrams	Dia gra ms	The Unified Modeling language For Designer & Learner By Graddy Booch, Ivar Jacobson, james Rumbaugh Pages 49-65

			Advanced classes		The Unified
				L A	Modeling language
				Ad	For Designer &
				van	Learner By Graddy
				ced	Booch, Ivar
				Cla	Jacobson, james
				sse	Rumbaugh Pages
6	1-1-16	1		S	49-65
			Advanced relationships		The Unified
					Modeling language
				Ad	For Designer &
				van	Learner By Graddy
				ced	Booch, Ivar
				Rel	Jacobson, james
				atio	Rumbaugh Pages
7	2-1-16	1		ns	49-65
			Interfaces,		The Unified
					Modeling language
					For Designer &
					Learner By Graddy
					Booch, Ivar
				Inte	Jacobson, james
				rfac	Rumbaugh Pages
8	4-1-16	1		es	49-65
			Types and roles, Packages		The Unified
					Modeling language
					For Designer &
					Learner By Graddy
					Booch, Ivar
				Pac	Jacobson, james
				kag	Rumbaugh Pages
9	6-1-16	1		es	49-65

Signature of Faculty Date

Note: 1. ENSURE THAT ALL TOPICS SPECIFIED IN THE COURSE ARE MENTIONED.

2. ADDITIONAL TOPICS COVERED, IF ANY, MAY ALSO BE SPECIFIED **BOLDLY**.

MENTION THE CORRESPONDING COURSE OBJECTIVE AND OUT COME NUMBERS AGAINST EACH TOPIC.



UNIT - III

2015-16

Regulation: R12

FACULTY DETAILS:

Name of the Faculty:: D. Jyothsna Designation::Assistant Professor Department::CSE The Schedule for the whole Course / Subject is::OOAD

0.1				Objectives &	References
SI.		No. of			(Text Book,
No.	Date	Periods	Topics / Sub - Topics	Outcome	Journal)
INO.		renous		Nos.	Page No to
			Class Diagrams	Advance Concept of	
				Classes and Objects	The Unified
					Modelling User
1	7-1-16	1			Guide 127-132
				Basics	The Unified
					Modelling User
2	8-1-16	1	Terms and Concepts		Guide 129-133
			Modelling Techniques for Class		
			Diagrams: Modelling simple	Modelling	The Unified
			collaborations	Techniques-	Modelling User
3	11-1-16	1		Collaborations	Guide 134-137
			Modelling Logical Database		The Unified
			Schema	Physical Database	Modelling User
4	13-1-16	1		Schema	Guide 217-220
			Forward and Reverse		The Unified
			Engineering	Forward and Reverse	Modelling User
5	18-1-16	1		Engineering	Guide 130-132
			Object Diagrams		The Unified
					Modelling User
6	20-1-16	1		Object Diagrams	Guide 132-135
			Terms and Concepts of Object		The Unified
			Diagrams		Modelling User
7	22-1-16	1		Basics	Guide 134-137
			Modelling Techniques	Modeli	
			for Object diagrams	ng	
				Object	The Unified
				Structu	Modelling User
8	23-1-16	1		res	Guide 220-223

Signature of Faculty Date

Note: 1. ENSURE THAT ALL TOPICS SPECIFIED IN THE COURSE ARE MENTIONED.

2. ADDITIONAL TOPICS COVERED, IF ANY, MAY ALSO BE SPECIFIED **BOLDLY**.

MENTION THE CORRESPONDING COURSE OBJECTIVE AND OUT COME NUMBERS AGAINST EACH TOPIC.



UNIT - IV

2015-16

Regulation: R12

FACULTY DETAILS:

Name of the Faculty::D. Jyothsna Designation::Assistant Prof Department::CSE The Schedule for the whole Course / Subject is::OOAD

SI. No.	Date	No. of Periods	Topics / Sub – Topics	Objectives & Outcome Nos.	References (Text Book, Journal) Page No to
			Interactions		-
				Interaction	The UML User
1	25-1-16	1		S	Guide 227-229
			Terms and Concepts		
			_	Basi	The UML User
2	27-1-16	1		cs	Guide 229-234
			Sequencing	Sequ	
				enci	The UML User
3	28-1-16	1		ng	Guide 234-238
			Modeling Techniques for	Mod	
			Interactions	eling	
				Tech	
				niqu	The UML User
4	29-1-16	1		es	Guide 238-2239
			Interaction Diagrams	Inter	
				actio	
				n	The UML User
5	30-1-16	1		Diag	Guide 265-267
			Terms and Concepts	-	
			1	Basi	The UML User
6	1-2-16	1		cs	Guide 267-271
			Semantic Equivalence and	MTs	
			Common Uses	of	The UML User
7	3-2-16	1		SD	Guide 271-272
				MTs	
			Modelling Techniques of Interaction	of	The UML User
8	4-2-16	1	Diagrams	CD	Guide 273-277

Signature of Faculty Date

Note: 1. ENSURE THAT ALL TOPICS SPECIFIED IN THE COURSE ARE MENTIONED.

2. ADDITIONAL TOPICS COVERED, IF ANY, MAY ALSO BE SPECIFIED **BOLDLY**.

MENTION THE CORRESPONDING COURSE OBJECTIVE AND OUT COME NUMBERS AGAINST EACH TOPIC.



UNIT - V

2015-16

Regulation: R12

FACULTY DETAILS:

Name of the Faculty:: D. Jyothsna Designation:Assistant Prof Department::CSE The Schedule for the whole Course / Subject is::OOAD

SI.	Date	No. of	Topics / Sub - Topics	Objectives & Outcome	References (Text Book, Journal)
No.		Periods		Nos.	Page No to
			Usecases		
					Unified modelling
1	15-2-16	1		Usecases	user guide 242-243
					Unified modelling
2	17-2-16	1	Terms and Concepts	Basics	user guide 244-251
				Flow of	Unified modelling
3	18-2-16	1	Usecases and Flow of Events	Events	user guide 242-246
				Organizat	
				ion of	Unified modelling
4	19-2-16	1	Organizing Usecases	usecases	user guide 248-251
				Modellin	
				g	
				Techniues	
			Modeling techniques for usecase	of	Unified modelling
5	20-2-16	1	diagrams	usecases	user guide 258-261
				Usecase	Unified modelling
6	22-2-16	1	Usecase Diagrams	Diagrams	user guide 255-256
				Modellin	
				g	
			Modeling techniques of activity	Techniqu	Unified modelling
7	24-2-16	1	diagrams	es of AD	user guide 290-294
			Activity Diagrams		
				Activity	Unified modelling
8	25-2-16	1		Diagrams	user guide 279-281

Signature of Faculty Date

Note: 1. ENSURE THAT ALL TOPICS SPECIFIED IN THE COURSE ARE MENTIONED.

2. ADDITIONAL TOPICS COVERED, IF ANY, MAY ALSO BE SPECIFIED **BOLDLY**.

MENTION THE CORRESPONDING COURSE OBJECTIVE AND OUT COME NUMBERS AGAINST EACH TOPIC.



UNIT - VI

2015-16

Regulation: R12

FACULTY DETAILS:

Name of the Faculty:: D. Jyothsna
Designation:Assistant Prof
Department:: CSE

The Schedule for the whole Course / Subject is:: OOAD

SI.	Date	No. of	Topics / Sub - Topics	Objectives & Outcome	References (Text Book, Journal)
No.	Date	Periods	Topice / Gus Topice	Nos.	Page No to
			Advanced Behavioral Modelling	Learning	
				Concepts	
				of State	
				Chart	
				Diagram	
					The Unified
					Modelling User
1	26-2-16	1			Guide 299-301
			Events and Signals	Events	The Unified
					Modelling User
2	27-2-16	1		Signals	Guide 303-308
			State machines		The Unified
				State	Modelling User
3	29-2-16	1		M/cs	Guide 309-313
			Process &threads		The Unified
					Modelling User
4	2-3-16	1		Threads	Guide 331-341
			Time &space		The Unified
					Modelling User
5	3-3-16	1		Space	Guide 343-349
			State chart diagrams	State	The Unified
					Modelling User
6	4-3-16	1		Diag	Guide 353-357
			Transitions		The Unified
				Transitio	Modelling User
7	5-3-16	1		ns	Guide 357-361

Signature of Faculty Date

Note: 1. ENSURE THAT ALL TOPICS SPECIFIED IN THE COURSE ARE MENTIONED.

2. ADDITIONAL TOPICS COVERED, IF ANY, MAY ALSO BE SPECIFIED **BOLDLY**.

MENTION THE CORRESPONDING COURSE OBJECTIVE AND OUT COME NUMBERS AGAINST EACH TOPIC.



UNIT - VII

2015-16

Regulation: R12

FACULTY DETAILS:

Name of the Faculty:: D. Jyothsna
Designation:: Assistant Prof
Department::CSE
The Schedule for the whole Course / Subject is::
OOAD

SI. No.	Date	No. of Periods	Topics / Sub - Topics	Objectives & Outcome Nos.	References (Text Book, Journal) Page No to
			Architectural Modeling	Architectu	The Unified
					Modeling User
1	7-3-16	1		Modeling	Guide 362-365
			Component	Com	The Unified
				pone	Modeling User
2	9-3-16	1		nt	Guide 365-367
			Terms and Concepts		The Unified
				Basi	Modeling User
3	10-3-16	1		cs	Guide 367-371
			Components and Classes		The Unified
				Clas	Modeling User
4	11-3-16	1		ses	Guide 368-369
			Components and Interfaces	Inter	The Unified
				face	Modeling User
5	12-3-16	1		S	Guide 369-371
			Deployment	Depl	The Unified
				oym	Modeling User
6	14-3-16	1		ent	Guide 381-385
			Component diagrams	Com	
				pone	The Unified
				nt	Modeling User
7	16-3-16	1		Diag	Guide 425-428
			Deployment diagrams	Depl	
				oym	The Unified
				ent	Modeling User
8	17-3-16	1		Diag	Guide 429-433

Signature of Faculty Date

Note: 1. ENSURE THAT ALL TOPICS SPECIFIED IN THE COURSE ARE MENTIONED.

2. ADDITIONAL TOPICS COVERED, IF ANY, MAY ALSO BE SPECIFIED **BOLDLY**.

MENTION THE CORRESPONDING COURSE OBJECTIVE AND OUT COME NUMBERS AGAINST EACH TOPIC.



UNIT - VIII

2015-16

Regulation: R12

FACULTY DETAILS:

Name of the Faculty:: D. Jyothsna Designation:Assistant Prof Department::CSE The Schedule for the whole Course / Subject

is::OOAD

SI. No.	Date	No. of Periods	Topics / Sub - Topics	Objectives & Outcome Nos.	References (Text Book, Journal) Page No to
					From The Link http://www.uml-
			Case study:		diagrams.org/use-
					case-diagrams-
1	18-3-16	8	The Unified library application	of UML	examples.html

Signature of Faculty Date

Note: 1. ENSURE THAT ALL TOPICS SPECIFIED IN THE COURSE ARE MENTIONED.

2. ADDITIONAL TOPICS COVERED, IF ANY, MAY ALSO BE SPECIFIED **BOLDLY**.

MENTION THE CORRESPONDING COURSE OBJECTIVE AND OUT COME NUMBERS AGAINST EACH TOPIC.



COURSE COMPLETION STATUS

2015-16

Regulation: R12

FACULTY DETAILS:

Name of the Faculty:: D. Jyothsna

Subject:: Object Oriented Analysis & Design

Department:: CSE

Actual Date of Completion & Remarks, if any

Subject Code::6756028

		Nos. of
Units		Objectives
		Achieved
Unit 1	No Remarks	
		7
Unit 2	No Remarks	4
Unit 3	No Remarks	2
Unit 4	No Remarks	3
Unit 5	No Remarks	4
Unit 6	No Remarks	5
		8
Unit 7	No Remarks	
	1 to Romanas	
11.71.0		10
Unit 8	No Remarks	10

Signature of Dean of School Date:

Signature of Faculty

Date:

NOTE: AFTER THE COMPLETION OF EACH UNIT MENTION THE NUMBER OF OBJECTIVES ACHIEVED.



TUTORIAL SHEETS - I

2015-16

Regulation: R12

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Name of the Faculty:: D. Jyothsna Designation: Assistant Professor Department::CSE The Schedule for the whole Course / Subject is::OOAD

Date: 12-12-15

This Tutorial corresponds to Unit Nos. I

Time: 2:00 P.M

- Q1.Define UML? Explain its Importants?
- Q2. Explain Principals of UML? Explain Conceptual Model of UML?
- Q3.Explain Architecture of UML?
- Q4. Explain Software Development Life Cycle of UML?

Q5.Explain The Following

- Structural diagrams i)
- ii) Behavioral Diagram
- Relationships iii)
- Common Mechanism iv)

Please write the Questions / Problems / Exercises which you would like to give to the students and also mention the objectives to which these questions / Problems are related.

Signature of Dean of School Date:



TUTORIAL SHEETS - II

2015-16

Regulation: R12

FACULTY DETAILS:

Name of the Faculty:: D. Jyothsna Designation: Assistant Professor Department::CSE The Schedule for the whole Course / Subject is::OOAD

Date: 12-12-15

This Tutorial corresponds to Unit Nos. II

Time: 2:00 P.M

- Q1. Define Class? Explain with an example?
- Q2. Explain common mechanism in classes?
- Q3. Define Relationship? Explain about various relationships?
- Q4. Explain Common mechanism in relationships?
- Q5.Exaplain the following
 - Advance in classes
 - Advance in relationships ii)
 - Interfaces iii)
 - Types & role in Association Relationship Packages

Please write the Questions / Problems / Exercises which you would like to give to the students and also mention the objectives to which these questions / Problems are related.

Signature of Dean of School Date:



TUTORIAL SHEETS - III

2015-16

Regulation: R12

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Name of the Faculty:: D. Jyothsna Designation:Assistant Professor

The Schedule for the whole Course / Subject is::OOAD	Date: 12-12-15
	Date. 12-12-10
This Tutorial corresponds to Unit Nos. III	Time: 2:00 P.M
:	
Q1. Define Class Diagram? Explain with an example of the control o	mple?
Q2. Define Object Diagram? Explain with an exa	ample?
Q3.Explain Common Modelling Techniques in C	Class Diagram?
Q4. Q3.Explain Common Modelling Techniques	in Object Diagram?
Q5.Explain Forward & Reverse Engineering? In	a class & Object Diagrams
Please write the Questions / Problems / Exercises which you woo objectives to which these questions / Problems are related.	uld like to give to the students and also mention the

Signature of Dean of School Date:



TUTORIAL SHEETS - IV

2015-16

Regulation: R12

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Name of the Faculty:: D. Jyothsna Designation:Assistant Professor Department::CSE The Schedule for the whole Course / Subject is::OOAD

Date: 12-12-15

This Tutorial corresponds to Unit Nos. **IV** Time: 2:00 P.M

:

- Q1. Define Interaction Diagram? Explain with an example?
- Q2. Define Sequence & Collaboration Diagram? Explain with an example?
- Q3. Explain Common Modelling Techniques in Sequence Diagram?
- Q4. Q3. Explain Common Modelling Techniques in Collaboration Diagram?
- Q5.Explain Forward & Reverse Engineering? In Sequence & COllaboration Diagrams

Please write the Questions / Problems / Exercises which you would like to give to the students and also mention the objectives to which these questions / Problems are related.

Signature of Dean of School Date:





TUTORIAL SHEETS - V

Regulation: R12

FACI	JLTY	DET	AILS:
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Name of the Faculty:: D. Jyothsna

Designation: Assistant Professor	
Department::CSE	
The Schedule for the whole Course / Subject is::OOAD	
15OOAD	Date: 12-12-15
	Bato. 12 12 10
This Tutorial corresponds to Unit Nos. V :	Time: 2:00 P.M
Q1. Define Use Case Diagram? Explain with an ex	xample?
Q2. Define Activity Diagram? Explain with an exa	ample?
Q3.Explain Common Modelling Techniques in Us	se Case Diagram?
Q4. Q3.Explain Common Modelling Techniques i	n Activity Diagram?
Q5.Explain Forward & Reverse Engineering? In U	Use Case & Activity Diagrams
Please write the Questions / Problems / Exercises which you would objectives to which these questions / Problems are related.	d like to give to the students and also mention the

Signature of Dean of School Date:



TUTORIAL SHEETS - VI

2015-16

Regulation: R12

FACI.	II T\/	 $ \wedge$ 1	I (C.

Name of the Faculty:: D. Jyothsna Designation:Assistant Prof Department::CSE The Schedule for the whole Course / Subject is::OOAD

Date: 12-12-15

This Tutorial corresponds to Unit Nos. **VI**Time: 2:00 P.M

:

- Q1. Define and Explain Events & Signal? Explain with an example?
- Q2. Define & Explain State Machine? Explain with an example?
- Q3.Difference Between Process & Threads with an example?
- Q4. Q3. Explain State Chart Diagram?
- Q5. Explain Common Modelling Techniques in State Chart Diagrams?

Please write the Questions / Problems / Exercises which you would like to give to the students and also mention the objectives to which these questions / Problems are related.

Signature of Dean of School Date:



TUTORIAL SHEETS - VII

2015-16

Regulation: R12

FACI.	II T\/	 $ \wedge$ 1	I (C.

Name of the Faculty:: D. Jyothsna Designation:Assistant Professor

Designation. Assistant 1 folessor Department::CSE	
The Schedule for the whole Course / Subject is::OOAD	
1300/10	Date: 12-12-15
This Tutorial corresponds to Unit Nos. VII	Time: 2:00 P.M
:	
Q1. Define Component Diagram? Explai	in with an example?
Q2. Define Deployment Diagram? Expla	in with an example?
Q3.Explain Common Modelling Techniq	ques in Component Diagram?
Q4. Q3.Explain Common Modelling Tec	chniques in Deployment Diagram?
Q5.Explain Forward & Reverse Engineer	ring? In Component & Deployment Diagrams
Please write the Questions / Problems / Exercises which objectives to which these questions / Problems are related to the control of the cont	ch you would like to give to the students and also mention the ated.

Signature of Dean of School Date:



TUTORIAL SHEETS - VIII

2015-16

Regulation: R12

FACULTY DETAILS:

Name of the Faculty:: D. Jyothsna Designation: Assistant Professor Department::CSE The Schedule for the whole Course / Subject is::OOAD

Date: 12-12-15

This Tutorial corresponds to Unit Nos. VIII

Time: 2:00 P.M

CASE STUDIES:

i. ii.

iii.

iv.

v. vi.

Online Book Shopping
Library Management System
Online marketing
E Seva
Online School/ College management
Online Training Course
Online Auction System
Online Voting
Online Job Searching
Online Mapping vii. viii. ix. х.

Signature of Dean of School Date:



ILLUSTRATIVE VERBS FOR STATING INSTRUCTIONAL OBJECTIVES

2015-16

Regulation: R12

These verbs can also be used while framing questions for Continuous Assessment Examinations as well as for End – Semester (final) Examinations.

ILLUSTRATIVE VERBS FOR STATING GENERAL OBJECTIVES

Know	l	Understand	Analyze	Generate
Comprehend	A	Apply	Design	Evaluate

ILLUSTRATIVE VERBS FOR STATING **SPECIFIC OBJECTIVES**:

A. Cognitive Domain

1	2	3	4	5	6
Knowledge	Comprehension Understanding	Application	Analysis	Synthesis	Evaluation
		of knowledge & comprehension	of whole w.r.t. its constituents	combination of ideas/constituents	judgement
Define	Convert	Change	Breakdown	Categorize	Appraise
Identify	Defend	Compute	Differentiate	Combine	Compare
Label	Describe (a	Demonstrate	Discriminate	Compile	Conclude
List	procedure)	Deduce	Distinguish	Compose	Contrast
Match	Distinguish	Manipulate	Separate	Create	Criticize
Reproduce	Estimate	Modify	Subdivide	Devise	Justify
Select	Explain why/how	Predict		Design	Interpret
State	Extend	Prepare		Generate	Support
	Generalize	Relate		Organize	
	Give examples	Show		Plan	
	Illustrate	Solve		Rearrange	
	Infer			Reconstruct	
	Summarize			Reorganize	
				Revise	

B. Affective	Domain		C. Psycho	motor Domain (ski	ll development)	
Adhere	Resolve	Bend	Dissect	Insert	Perform	Straighten
Assist	Select	Calibrate	Draw	Keep	Prepare	Strengthen
Attend	Serve	Compress	Extend	Elongate	Remove	Time
Change	Share	Conduct	Feed	Limit	Replace	Transfer
Develop		Connect	File	Manipulate	Report	Type
Help		Convert	Grow	Move precisely	Reset	Weigh
Influence		Decrease	Handle	Operate	Run	
Initiate		Demonstrate	Increase	Paint	Set	



LESSON PLAN Unit-1

2015-16

Regulation: R12

Name of the Faculty: D. Jyothsna

Subject::OOAD

Subject Code::6756028

Unit: I

INSTRUCTIONAL OBJECTIVES:

Session No	Topics to be covered	Time	Ref	Teaching Method
1	Importance of modeling, principles of modelling	50 Min	The Unified Modelling Language for Designer The Ultimate Guide	Black Board
2	OO modeling,	50 Min	"	,,
3	Conceptual model of the UML	50 Min	"	,,
4	Architecture	50 Min	"	,,
5	Software development life cycle	50 Min	"	,,

On completion of this lesson the student shall be able to (Outcomes)

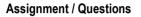
- 1. Know abouts what is Modelling?
- 2. Importants of modelling?
- 3. Conceptual Model & Architecture
- 4 Software Development Life Cycle



ASSIGNMENT Unit-I

2015-16

Regulation: R12



- Q1.Define UML? Explain its Importants?
- Q2.Explain Principals of UML? Explain Conceptual Model of UML?
- Q3.Explain Architecture of UML?
- Q4. Explain Software Development Life Cycle of UML?

Q5.Explain The Following

- v) Structural diagrams
- vi) Behavioral Diagram
- vii) Relationships
- viii) Common Mechanism

Signature of Faculty

Note: Mention for each question the relevant objectives and outcomes.



LESSON PLAN Unit-II

2015-16

Regulation: R12

Name of the Faculty: D. Jyothsna

Subject::OOAD

Unit: II

Subject Code::6756028

INSTRUCTIONAL OBJECTIVES:

Session No	Topics to be covered	Time	Ref	Teaching Method
1	Basic Structural modeling	50 Min	The Unified Modelling Language for Designer The Ultimate Guide	Black Board
2	Classes	,,	"	,,
3	Relationships	"	"	,,
4	Common mechanisms	"	"	,,
5	Diagrams	,,	"	,,
6	Advanced classes	,,	"	,,
7	Advanced relationships	"	"	,,
8	Interfaces,	"	"	,,
9	Types and roles,	"	"	"
10	Packages	"	"	,,

On completion of this lesson the student shall be able to

- 1. To learn about the Advance Classess
- 2. To learn about the Advance relationships
- 3. Common mechanism
- 4 To learn about the Interfaces, Types , Roles & Packages.



ASSIGNMENT Unit-II

2015-16

Regulation: R12

Assignment / Questions

- Q1. Define Class? Explain with an example?
- Q2. Explain common mechanism in classes?
- Q3. Define Relationship? Explain about various relationships?
- Q4. Explain Common mechanism in relationships?
- Q5.Exaplain the following

 - Advance in classes Advance in relationships Interfaces Types & role in Association Relationship Packages



LESSON PLAN Unit-III

2015-16

Regulation: R12

Name of the Faculty: D. Jyothsna Subject: OOAD

Subject Code: 6756028

Unit:III

INSTRUCTIONAL OBJECTIVES:

Session No	Topics to be covered	Time	Ref	Teaching Method
1	Class and object Diagrams	50 Min	The Unified Modelling Language Guide	Black Board
2	Terms and Concepts	"	"	
3	Modelling Techniques for Class Diagrams	"	n	
4	Modelling Techniques for Object Diagrams	"	"	
5	Modelling simple collaborations	"	"	
6	Modelling Logical Database Schema	"	"	
7	Forward and Reverse Engineering	"	"	
8	Modelling Object Structures	50 Min	"	Black Board

On completion of this lesson the student shall be able to (Outcomes)

- 1.Learn about the class diagram
- 2. Learn about the object diagram
- 3. Learn about the class diagram common modelling techniques
- 4 Learn about the object diagram common modelling techniques



ASSIGNMENT Unit-III

2015-16

Regulation: R12

ssignment / Questions
Q1. Define Class Diagram? Explain with an example?
Q2. Define Object Diagram? Explain with an example?
Q3.Explain Common Modelling Techniques in Class Diagram?
Q4. Q3.Explain Common Modelling Techniques in Object Diagram?
Q5.Explain Forward & Reverse Engineering ? In class & Object Diagrams?
Signature of Faculty

Note: Mention for each question the relevant objectives and outcomes.



LESSON PLAN Unit-IV

2015-16

Regulation: R12

Name of the Faculty:D. Jyothsna Subject: OOAD

Subject Code:6756028

Unit :IV
INSTRUCTIONAL OBJECTIVES:

Session No	Topics to be covered	Time	Ref	Teaching Method
1	Interactions,	50 Min	The Unified Modelling Language Guide	Black Board
2	Interaction diagrams Sequence Diagram	n	n	n
3	Collaboration Diagram	"	n	n
4	Modelling Techniques of Sequence Diagram	"	n	"
5	Modelling Techniques of Collaboration Diagram	"	n	"

On completion of this lesson the student shall be able to (Outcomes)

- 1. Learn about the Interactions
 - 2. Learn about the Interactions Diagrams
- 3. Learn about the Sequence Diagram Common Modelling Techniques
- 4 Learn about the Collaboration Diagram Common Modelling Techniques



ASSIGNMENT Unit-IV

2015-16

Regulation: R12

Assignment / Questions

Define Interaction?
 Explain with an example sequence diagram?
 Explain with an example collaboration diagram?
 Explain with an example common modelling techniques in sequence diagram?
 Explain with an example common modelling techniques in collaboration diagram?

Signature of Faculty

Note: Mention for each question the relevant objectives and outcomes.



LESSON PLAN Unit-V

2015-16

Regulation: R12

Name of the Faculty: Subject

Subject Code:: 6756028

Unit::V INSTRUCTIONAL OBJECTIVES:

Session No	Topics to be covered	Time	Ref	Teaching Method
1	Use cases	50 Min	The Unified Modelling Language Guide	Black Board
2	Terms and Concepts	50 Min	"	Black Board
3	Usecases and Flow of Events	"	"	"
4	Organizing Usecases	"	"	"
5	Modeling techniques for usecase diagrams	"	"	"
6	Usecase Diagrams	"	"	"
7	Modeling techniques of activity diagrams	"	n	"
8	Activity Diagrams	50 Min	"	Black Board

On completion of this lesson the student shall be able to (Outcomes)

- 1.Learn about the use cases
- 2. Learn about the usecase diagram
- 3. Learn about the Activity diagram
- 4 Learn about the common modelling techniques in usecase & activity diagram



ASSIGNMENT Unit-V

2015-16

Regulation: R12

Assignment / Questions

- 1) Explain about the use cases with an example?
- 2. Explain about the usecase diagram?
- 3. Explain about the Activity diagram?
- 4 Explain about the common modelling techniques in usecase & activity diagram?

Signature of Faculty

Note: Mention for each question the relevant objectives and outcomes.



LESSON PLAN Unit-VI

2015-16

Regulation: R12

Name of the Faculty: Subject

Subject Code:: 6756028

Unit::VI
INSTRUCTIONAL OBJECTIVES:

Session No	Topics to be covered	Time	Ref	Teaching Method
1	Events and signals	50 Min	The Unified Modelling Language Guide	Black Board
2	State machines	50 Min	"	Black Board
3	Process &threads	50 Min	"	Black Board
4	Time &space	50 Min	"	Black Board
5	State chart diagrams	50 Min	"	Black Board
6	Transitions	50 Min	"	Black Board

On completion of this lesson the student shall be able to (Outcomes)

- 1. Learn about the Events & Signals In UML.
- 2. Learn about the State Machine In UML.
- 3. Learn about the Process & Threads In UML.
- 4. Learn about the Time & Space In UML.
- 5. Learn about the State Chart Diagram In UML.



ASSIGNMENT Unit-VI

2015-16

Regulation: R12

Assignment / Questions

- 1. Explain about the Events & Signals In UML.
- 2. Explain about the State Machine In UML.
- 3. Explain about the Process & Threads In UML.
- 4. Explain about the Time & Space In UML.
- 5. Explain about the State Chart Diagram In UML.

Signature of Faculty

Note: Mention for each question the relevant objectives and outcomes.



LESSON PLAN Unit-VII

2015-16

Regulation: R12

Name of the Faculty: Subject

Subject Code:: 6756028

Unit:VIIINSTRUCTIONAL OBJECTIVES:

Session No	Topics to be covered	Time	Ref	Teaching Method
1	Architectural Modeling	50 Min	The Unified Modelling Language for Designer The Ultimate Guide	Black Board
2	Component	"	"	"
3	Terms and Concepts	"	"	"
4	Components and Classes	"	"	"
5	Components and Interfaces	n	"	"
6	Deployment	50 Min	n	Black Board
7	Component diagrams	50 Min	n	Black Board
8	Deployment diagrams	50 Min	"	Black Board

On completion of this lesson the student shall be able to

- 1. Learn about the Software & Hardware Component s
- 2. Learn about the Nodes & Relationships used in Deployment Diagram
- 3. Learn about the Component Diagram & its common modelling techniques
- 4. Learn about the Deployment Diagram & its common modelling techniques



ASSIGNMENT Unit-VII

2015-16

Regulation: R12

Assignment / Questions

- 1. Explain about the Software & Hardware Component s
- 2. Explain about the Nodes & Relationships used in Deployment Diagram
- 3. Explain about the Component Diagram & its common modelling techniques?
- 4. Explain about the Deployment Diagram & its common modelling techniques?

Signature of Faculty

Note: Mention for each question the relevant objectives and outcomes.



LESSON PLAN Unit-VIII

2015-16

Regulation: R12

Name of the Faculty: G Sreenivasulu

Subject Web Technologies Subject Code::6756028

Unit VIII

INSTRUCTIONAL OBJECTIVES:

Session No	Topics For Case Studies	Time	Ref	Teaching Method
1	Online Book Shopping	50 Min	Internet+B ooks	Black Board + Note Book
2	Library Management System	50 Min	Internet+B ooks	Black Board + Note Book
3	Online marketing	50 Min	Internet+B ooks	Black Board + Note Book
4	E Seva	50 Min	Internet+B ooks	Black Board + Note Book
5	Online School/ College management	50 Min	Internet+B ooks	Black Board + Note Book
6	Online Training Course	50 Min	Internet+B ooks	Black Board + Note Book
7	Online Auction System	50 Min	Internet+B ooks	Black Board + Note Book
8	Online Voting	50 Min	Internet+B ooks	Black Board + Note Book
9	Online Job Searching	50 Min	Internet+B ooks	Black Board + Note Book
10	Online Mapping	50 Min	Internet+B ooks	Black Board + Note Book

On completion of this lesson the student shall be able to

- 1 Student can able to design about the case study "Online Book Shopping"
- 2 Student can able to design about the case study "Library Management System"
- 3 Student can able to design about the case study "Online marketing"
- 4 E Seva"
- 5 Student can able to design about the case study "Online School/ College management"
- 6 Student can able to design about the case study "Online Training Course"
- 7 Student can able to design about the case study "Online Auction System"
- 8 Student can able to design about the case study "Online Voting"
- 9 Student can able to design about the case study "Online Job Searching"
- 10 Student can able to design about the case study "Online Mapping"



ASSIGNMENT Unit-VIII

2015-16

Regulation: R12

Assignment / Questions

1) All UML Diagram design in there respective Case Studies.

Signature of Faculty

Note: Mention for each question the relevant objectives and outcomes.