



Course Plan
For
Object oriented Analysis & Design

IV B. Tech(IT)


I SEMESTER

ACADEMIC YEAR

2015-16

V.Krishna Reddy

Associate Professor

	<p style="text-align: center;">COURSE PLAN</p>	2015-16
		Regulation: R12

FACULTY DETAILS:

Name of the Faculty:: V.Krishna Reddy & Ch.Srinivasulu
 Designation: Associate Professr Associate Professor
 Department:: IT

1. TARGET

- a) Percentage Pass 100%
- b) Percentage I class 75%

2. 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.)

3. 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.

Signature of HOD
Date:

Signature of Faculty
Date:



GUIDELINES TO STUDY THE SUBJECT

2015-16

Regulation: R12

FACULTY DETAILS:

Name of the Faculty:: V.Krishna Reddy & Ch.Srinivasulu

Designation: Assoc.Professor Assoc.Professor

Department::IT

Guidelines for Preparing the Course: Brush up the basics of OOPS and Java.

Course Description:

In this course the student will get an idea of modelling Language .He will know the concept of Unified Modelling Language .He will get an idea of problem solving, drawing UML diagrams, Forward and reverse engineering.

Course Objectives:

1. Importance of modelling.
2. Classes and relationships.
3. Classes and object diagrams
4. Interactions
5. Use cases
6. Advanced Behavioural Modelling
7. Architectural Modelling
8. Unified Library System
- 9.
- 10.
- 11.
- 12.
- 13.

Learning Outcomes:

The outcome of this learning process is that the student gets an idea of what is Modelling,What is OOAD, what is UML.They will also learn how to use any of the Visual Modelling tool.



COURSE OBJECTIVES

2015-16

Regulation: R12

FACULTY DETAILS:

Name of the Faculty:: V.Krishna Reddy & Ch.Srinivasulu
Designation: Assoc. Professor Associate Professor
Department:: IT

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

S.No.	Objectives	Outcomes
1.	Understand the concept of Modelling	Modelling
2.	Understand the concept of classes and relationships.	Classes and relationships
3.	Understand the concept of Class & Object Diagrams	Class and Object
4.	Understand Interactions, Interaction diagrams.	Basic behavioral modelling_1
5.	Understand Use case and Activity diagrams	Basic behavioural modelling -2
6.	Understand Events and signals, state machines, processes and Threads, time and space, state chart diagrams.	Advanced Behavioural modelling
7.	Understand Component, Deployment, Component diagrams and Deployment diagrams.	Component and deployment
8.	Understand Unified Library Application.	Libray Application
9.		

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:: V.Krishna Reddy & Ch.Srinivasulu
 Designation: Assoc .Professor Assoc.Professor
 Department:: IT

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	
B.	An ability to design and conduct experiments, as well as to analyze and interpret data	
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	
D.	An ability to function on multi-disciplinary teams	
E.	An ability to identify, formulate, and solve engineering problems	
F.	An understanding of professional and ethical responsibility	
G.	An ability to communicate effectively	
H.	The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context	
I.	A recognition of the need for, and an ability to engage in life-long learning	
J.	A knowledge of contemporary issues	
K.	An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.	

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

Objectives \ Outcomes	A	B	C	D	E	F	G	H	I	J	K
1.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



COURSE SCHEDULE

2015-16

Regulation: R12

FACULTY DETAILS:

Name of the Faculty: V. Krishna Reddy & Ch. Srinivasulu
 Designation: Assoc Professor Assoc. Professor
 Department: IT

The Schedule for the whole Course / Subject is: OOAD

S. No.	Description	Duration (Date)		Total No. of Periods
		From	To	
1.	Introduction to UML : Importance of modeling, principles of modeling, object oriented modeling, conceptual model of the UML, Architecture, Software Development Life Cycle	9/7	18/7	6
2.	Basic Structural Modeling : Classes, Relationships, common Mechanisms, and diagrams. Advanced Structural Modeling : Advanced classes, advanced relationships, Interfaces, Types and Roles, Packages.	19/7	30/7	8
3.	Class & Object Diagrams : Terms, concepts, modeling techniques for Class & Object Diagrams.	1/8	13/8	8
4.	Basic Behavioral Modeling-I : Interactions, Interaction diagrams.	16/8	26/8	8
5.	Basic Behavioral Modeling-II : Use cases, Use case Diagrams, Activity Diagrams.	27/8	13/9	8
6.	Advanced Behavioral Modeling : Events and signals, state machines, processes and Threads, time and space, state chart diagrams.	16/9	24/9	7
7	Architectural Modeling : Component, Deployment, Component diagrams and Deployment diagrams.	27 /9	7/10	8
8	: The Unified Library application	8/10	11/10	4

Total No. of Instructional periods available for the course:

57 Hours / Periods



SCHEDULE OF INSTRUCTIONS

2015-16

UNIT - I

Regulation: R12

FACULTY DETAILS:

Name of the Faculty:: V.Krishna Reddy & Ch.Srinivasulu

Designation: Assoc. Professor & Associate Professor

Department: IT

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

Sl. No.	Date	No. of Periods	Topics / Sub - Topics	Objectives & Outcome Nos.	References (Text Book, Journal...) Page No ___ to ___
1	9/7	1	Importance of Modelling, Principles of modeling	Modeling Principles	The Unified Modelling User Guide, 27-33
2	11/7	1	Object Oriented Modelling	OOM	The Unified Modelling User Guide, 35-39
3	12/7	1	Conceptual model of UML	Modeling Concepts	The Unified Modelling User Guide
4	15/7	1	An Overview of UML	Overview	The Unified Modelling User Guide, 27-33
5	16/7	1	Architecture	Architecture	The Unified Modelling User Guide, 52-55
6	18/7	1	Software Development Life cycle	SDLC	The Unified Modelling User Guide, 55-57


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.

	SCHEDULE OF INSTRUCTIONS	2015-16
	UNIT - II	Regulation: R12

FACULTY DETAILS:

Name of the Faculty:: V.Krishns Reddy & Ch.Srinivasulu
 Designation: Associate Professor Assoc.Professor
 Department:: IT

The Schedule for the whole Course / Subject is::

Sl. No.	Date	No. of Periods	Topics / Sub - Topics	Objectives & Outcome Nos.	References (Text Book, Journal...) Page No__ to __
1	19/7	1	Basic Structural Modelling	Basic Structural Modelling	The Unified Modelling User Guide69-74
2	20/7	1	Classes,relationships	Concept of classes and objects	The Unified Modelling User Guide75-91
3	22/7	1	Common mechanisms and diagrams	Understanding of common mechanisms	The Unified Modelling User Guide97-110
4	23/7	1	Advanced structural modelling	Advanced structural modelling	The Unified Modelling User Guide,141-156
5	26/7	1	Advanced classes	Understanding of advanced classes	The Unified Modelling User Guide,141-156
6	27/7	1	Advanced Relationships	Understanding of advanced relationships	The Unified Modelling User Guide 157-175
7	29/7	1	Interfaces,Types and roles	Understanding of interfaces	The Unified Modelling User Guide 177-189
8	30/7	1	Packages	Understanding of packages	The Unified Modelling User Guide 191-204

Signature of Faculty
Date

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



SCHEDULE OF INSTRUCTIONS

2015-16

UNIT - III

Regulation: R12

FACULTY DETAILS:


Name of the Faculty:: V.Krishns Reddy & Ch.Srinivasulu
Designation: Associate Professor Assoc.Professor
Department:: IT

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

Sl. No.	Date	No. of Periods	Topics / Sub - Topics	Objectives & Outcome Nos.	References (Text Book, Journal...) Page No__ to __
1	1/8	1	Class and Object Diagrams	Classes and objects	The Unified Modelling User Guide 127-132
2	2/8	1	Terms and Concepts	Terms and Concepts	The Unified Modelling User Guide 129-133
3	3/8	1	Modelling Techniques for class diagrams	Modelling Techniques	The Unified Modelling User Guide 134-137
4	5/8	1	Modelling Techniques for Object diagrams	Class diagrams	The Unified Modelling User Guide,217-220
5	6/8	1	Modelling simple collaborations	collaborations	The Unified Modelling User Guide 130-132
6	8/8	1	Modeling a logical database schema	physical database schema	The Unified Modelling User Guide 132-135
7	12/8	1	Forward and Reverse Engineering	Forward and Reverse Engineering	The Unified Modelling User Guide 134-137
8	13/8	1	Modelling Object Structures	Modelling Object Structures	The Unified Modelling User 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.

	SCHEDULE OF INSTRUCTIONS	2015-16
	UNIT - IV	Regulation: R12

FACULTY DETAILS:


Name of the Faculty:: V.Krishns Reddy & Ch.Srinivasulu
 Designation: Associate Professor Assoc.Professor
 Department: IT

The Schedule for the whole Course / Subject is::

Sl. No.	Date	No. of Periods	Topics / Sub - Topics	Objectives & Outcome Nos.	References (Text Book, Journal...) Page No ___ to ___
1	16/8	1	Behaviour modelling-1	Modeling	The Unified Modelling User Guide 227-228
2	17/8	1	interactions	interactions	The Unified Modelling User Guide 227-228
3	19/8	1	Terms and concepts	basics	The Unified Modelling User Guide 229-233
4	20/8	1	Objects and roles	examples	The Unified Modelling User Guide 220-233
5	22/8	1	Sequencing	Time ordering	The Unified Modelling User Guide 234-237
6	23/8	1	Modeling a flow of control	modeling	The Unified Modelling User Guide 238-240
7	24/8	1	Modeling a flow of control by time ordering	Sequence	The Unified Modelling User Guide 273-274
8	26/8	1	Modelling a flow of control by organization	coillaboration	The Unified Modelling User Guide 275-277

Signature of Faculty
Date

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

	SCHEDULE OF INSTRUCTIONS	2015-16
	UNIT - V	Regulation: R12

FACULTY DETAILS:


Name of the Faculty:: V.Krishns Reddy & Ch.Srinivasulu
 Designation: Associate Professor Assoc.Professor
 Department:: IT

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

Sl. No.	Date	No. of Periods	Topics / Sub - Topics	Objectives & Outcome Nos.	References (Text Book, Journal...) Page No__ to __
1	27/8	1	Basic Behavioural modelling-2	Behavioural modeling	The Unified Modelling User Guide 241-243
2	28/8	1	Use cases	Use cases	The Unified Modelling User Guide 242-243
3	3/9	1	Terms and concepts	basics	The Unified Modelling User Guide 244-251
4	5/9	1	Use cases and flow of events	Flow of events	The Unified Modelling User Guide 242-246
5	6/9	1	Organizing use cases	Organization of use cases	The Unified Modelling User Guide 248-251
6	10/9	1	Use case diagrams	Use case diagrams	The Unified Modelling User Guide 255-256
7	12/9	1	Modelling a context of a system	Modelling techniques	The Unified Modelling User Guide 258-259
8	13/9	1	Activity diagrams	Activity diagram	The Unified Modelling 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.

	SCHEDULE OF INSTRUCTIONS	2015-16
	UNIT - VI	Regulation: R12

FACULTY DETAILS:


Name of the Faculty:: V.Krishns Reddy & Ch.Srinivasulu
 Designation: Associate Professor Assoc.Professor
 Department: IT

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

Sl. No.	Date	No. of Periods	Topics / Sub - Topics	Objectives & Outcome Nos.	References (Text Book, Journal...) Page No__ to __
1	16/9	1	Advanced Behavioral modeling	Behavioral modelling	The Unified Modelling User Guide 299-301
2	17/9	1	Events and signals	Events and signals	The Unified Modelling User Guide 303-308
3	19/9	1	State machines	State machines	The Unified Modelling User Guide 309-313
4	20/9	1	Process and threads	Process and threads	The Unified Modelling User Guide 331-341
5	21/9	1	Time and space	Time and space	The Unified Modelling User Guide 243-349
6	22/9	1	State chart diagrams	State chart diagrams	The Unified Modelling User Guide 353-357
7	24/9	1	Transitions	Transitions	The Unified Modelling User Guide 357-361

Signature of Faculty
Date

Note: 1. ENSURE THAT ALL TOPICS SPECIFIED IN THE COURSE ARE MENTIONED.
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 MENTION THE CORRESPONDING COURSE OBJECTIVE AND OUT COME NUMBERS AGAINST EACH TOPIC.

	SCHEDULE OF INSTRUCTIONS	2015-16
	UNIT - VII	Regulation: R12

FACULTY DETAILS:


Name of the Faculty:: V.Krishns Reddy & Ch.Srinivasulu
 Designation: Associate Professor Assoc.Professor
 Department: IT

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

Sl. No.	Date	No. of Periods	Topics / Sub - Topics	Objectives & Outcome Nos.	References (Text Book, Journal...) Page No ___ to ___
1	27/9	1	Architectural Modelling	Architectural Modelling	The Unified Modelling User Guide 362-365
2	28/9	1	Component	Component	The Unified Modelling User Guide 365-367
3	30/9	1	Terms and Concepts	Terms and Concepts	The Unified Modelling User Guide 367-271
4	1/10	1	Components and classes	Components and classes	The Unified Modelling User Guide 368-369
5	3/10	1	Components and interfaces	Components and interfaces	The Unified Modelling User Guide 369-371
6	4/10	1	Deployment	Deployment	The Unified Modelling User Guide 381-385
7	5/10	1	Component diagrams	Component diagrams	The Unified Modelling User Guide 425-418
8	7/10	1	Deployment diagrams	Deployment diagrams	The Unified Modelling User Guide 429-433

Signature of Faculty
Date

Note: 1. ENSURE THAT ALL TOPICS SPECIFIED IN THE COURSE ARE MENTIONED.
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 MENTION THE CORRESPONDING COURSE OBJECTIVE AND OUT COME NUMBERS AGAINST EACH TOPIC.

	SCHEDULE OF INSTRUCTIONS	2015-16
	UNIT - VIII	Regulation: R12

FACULTY DETAILS:

Name of the Faculty:: V.Krishns Reddy & Ch.Srinivasulu
 Designation: Associate Professor Assoc.Professor
 Department:: IT

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

Sl. No.	Date	No. of Periods	Topics / Sub - Topics	Objectives & Outcome Nos.	References (Text Book, Journal...) Page No ___ to ___
1	8/10	1	Library Application	Library Application	The Unified Modelling User Guide
2	9/10	1	Static diagrams	Static diagrams	The Unified Modelling User Guide
3	10/10	1	Dynamic Diagrams	Dynamic Diagrams	The Unified Modelling User Guide
4	11/10	1	Summary	Summary	The Unified Modelling User Guide

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::
Subject:: OOAD

V.Krishna Reddy & Ch.Srinivasulu

Subject Code

Department:: IT

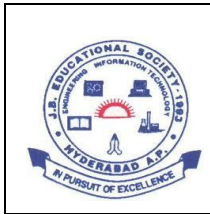
Actual Date of Completion & Remarks, if any

Units	Remarks	Nos. of Objectives Achieved
Unit 1	Gives the basics of UML	UML
Unit 2	Classes and relationships	Classes and relationships
Unit 3	Class and object Diagrams	Classes,objects
Unit 4	Interaction diagrams	Interactions and messages
Unit 5	Use cases and activity diagrams	Use cases and activity diagrams
Unit 6	Advanced behavioural modeling	Advanced behavioural modeling
Unit 7	Architectural modeling	Architectural modeling
Unit 8	Unified Library Application	Library Application

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

FACULTY DETAILS:

Name of the Faculty:: V.Krishns Reddy & Ch.Srinivasulu
Designation: Associate Professor Assoc.Professor
Department:: IT

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

Date:

This Tutorial corresponds to Unit Nos.

Time:

Q1. Describe the principles of modeling

Q2. Describe the building blocks of UML.

Q3. Describe Advanced Relationships in UML

Q4. Describe classes and object diagrams

Q5. Describe Interaction Diagrams.

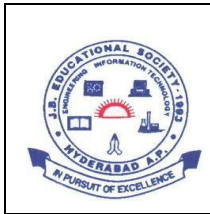
Please write the Questions / Problems / Exercises which you would like to give to the students and also mention the objectives to which these questions / Problems are related.

Signature of Dean of School

Date:

Signature of Faculty

Date:



TUTORIAL SHEETS - II

2015-16

Regulation: R12

FACULTY DETAILS:

Name of the Faculty:: V.Krishns Reddy & Ch.Srinivasulu
Designation: Associate Professor Assoc.Professor
Department:: IT
The Schedule for the whole Course / Subject is:: OOAD

Date:

This Tutorial corresponds to Unit Nos.

Time:

Q1.Briefly describe the classes and relationships

Q2.Briefly describe Advanced classes.

Q3.Briefly describe advanced relationships

Q4.Describe interfaces

Q5. Describe 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:

Signature of Faculty
Date:



TUTORIAL SHEETS - II

2015-16

Regulation: R12

Name: V.Krishns Reddy & Ch.Srinivasulu
Designation: Associate Professor Associate
Professor

Department::IT

Date:

This Tutorial corresponds to Unit Nos.

Time:

Q1.Describe Use case diagrams.

Q2.Dsscribe Activity diagrams

Q3.Describe statechart diagrams

Q4Describe Component Diagrams

Q5 Describe deployment 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:

Signature of Faculty
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

Comprehend

Understand

Apply

Analyze

Design

Generate

Evaluate

ILLUSTRATIVE VERBS FOR STATING SPECIFIC OBJECTIVES:

A. Cognitive Domain

1	2	3	4	5	6
Knowledge	Comprehension Understanding	Application of knowledge & comprehension	Analysis of whole w.r.t. its constituents	Synthesis combination of ideas/constituents	Evaluation judgement

Define	Convert	Change	Breakdown	Categorize	Appraise
Identify	Defend	Compute	Differentiate	Combine	Compare
Label	Describe (a procedure)	Demonstrate	Discriminate	Compile	Conclude
List	Distinguish	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

Adhere
Assist
Attend
Change
Develop
Help
Influence
Initiate

Resolve
Select
Serve
Share

C. Psychomotor Domain (skill development)


Bend
Calibrate
Compress
Conduct
Connect
Convert
Decrease
Demonstrate

Dissect
Draw
Extend
Feed
File
Grow
Handle
Increase

Insert
Keep
Elongate
Limit
Manipulate
Move precisely
Operate
Paint

Perform
Prepare
Remove
Replace
Report
Reset
Run
Set

Straighten
Strengthen
Time
Transfer
Type
Weigh

	LESSON PLAN Unit-1	2015-16
		Regulation: R12

Name of the Faculty: V.Krishna Reddy & Ch.Srinivasulu

Subject OOAD

Subject Code

Unit I

INSTRUCTIONAL

OBJECTIVES: Understanding of
the basics of UML

Session No	Topics to be covered	Time	Ref	Teaching Method
1	Importance of Modelling, Principles of modeling	50 mins	The Unified Modelling User Guide	Black Board
2	Object Oriented Modelling	50 mins	The Unified Modelling User Guide	Black Board
3	Conceptual model of UML	50 mins	The Unified Modelling User Guide	Black Board
4	An Overview of UML	50 mins	The Unified Modelling User Guide	Black Board
5	Architecture	50 mins	The Unified Modelling User Guide	Black Board
6	Software Development Life cycle	50 mins	The Unified Modelling User Guide	Black Board


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

1.Get a basic understanding of UML

2.Understanding of modelling

3.Basic building blocks

4 Architecture

	ASSIGNMENT Unit-I	2015-16
		Regulation: R12

Assignment / Questions

- 1) Briefly describe the principles of modelling
- 2) Describe the building blocks of UM:L
- 3) Describe the common mechanisms in UML
- 4) Describe the Architecture in UML.
- 5) Describe the SDLC in UML.

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: V.Krishna Reddy & Ch.Srinivasulu

Subject OOAD

Subject Code

Unit II

INSTRUCTIONAL OBJECTIVES:

Session No	Topics to be covered	Time	Ref	Teaching Method
1	Basic Structural Modelling	50 mins	The Unified Modelling User Guide	Black Board
2	Classes, relationships	50 mins	The Unified Modelling User Guide	Black Board
3	Common mechanisms and diagrams	50 mins	The Unified Modelling User Guide	Black Board
4	Advanced structural modelling	50 mins	The Unified Modelling User Guide	Black Board
5	Advanced classes	50 mins	The Unified Modelling User Guide	Black Board
6	Advanced Relationships	50 mins	The Unified Modelling User Guide	Black Board
7	Interfaces,Types and roles	50 mins	The Unified Modelling User Guide	Black Board
8	Packages	50 mins	The Unified Modelling User Guide	Black Board


On completion of this lesson the student shall be able to

1.Understand classes and relationships.

2.Advanced classes

3.Advanced Relationships

4 Interfaces

	ASSIGNMENT Unit-II	2015-16
		Regulation: R12

Assignment / Questions

- 1) Describe Advanced classes
- 2) Describe Advanced Relationships
- 3) Describe interfaces.
- 4) Describe Packages

Signature of Faculty

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



LESSON PLAN
Unit-III

2015-16

Regulation: R12

Name of the Faculty: V.Krishna Reddy & Ch.Srinivasulu

Subject OOAD

Subject Code


Unit III

INSTRUCTIONAL OBJECTIVES:

Session No	Topics to be covered	Time	Ref	Teaching Method
1	Class and Object Diagrams	50 mins	The Unified Modelling User Guide	Black Board
2	Terms and Concepts	50 mins	The Unified Modelling User Guide	Black Board
3	Modelling Techniques for class diagrams	50 mins	The Unified Modelling User Guide	Black Board
4	Modelling Techniques for Object diagrams	50 mins	The Unified Modelling User Guide	Black Board
5	Modelling simple collaborations	50 mins	The Unified Modelling User Guide	Black Board
6	Modeling a logical database schema	50 mins	The Unified Modelling User Guide	Black Board
7	Forward and Reverse Engineering	50 mins	The Unified Modelling User Guide	Black Board
8	Modelling Object Structures	50 mins	The Unified Modelling User Guide	Black Board

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

- 1.Understand class diagrams
- 2.Understand Object diagrams
- 3.Understand common modelling techniques
- 4 Modeling Object structures

	ASSIGNMENT Unit-III	2015-16
		Regulation: R12

Assignment / Questions

- 1) Briefly describe class diagrams
- 2) Briefly describe object diagrams
- 3) Describe common modelling techniques
- 4) Describe Object Structures

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: V.Krishna Reddy & Ch.Srinivasulu

Subject OOAD

Subject Code

Unit IV

INSTRUCTIONAL OBJECTIVES:

Session No	Topics to be covered	Time	Ref	Teaching Method
1	Behaviour modelling-1	50 mins	The Unified Modelling User Guide	Black Board
2	interactions	50 mins	The Unified Modelling User Guide	Black Board
3	Terms and concepts	50 mins	The Unified Modelling User Guide	Black Board
4	Objects and roles	50 mins	The Unified Modelling User Guide	Black Board
5	Sequencing	50 mins	The Unified Modelling User Guide	Black Board
6	Modeling a flow of control	50 mins	The Unified Modelling User Guide	Black Board
7	Modeling a flow of control by time ordering	50 mins	The Unified Modelling User Guide	Black Board
8	Modelling a flow of control by organization	50 mins	The Unified Modelling User Guide	Black Board


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

1.Understand interactions

2.Understand sequencince diagrtams

3.Understand Collaborations

4Forward and Reverse Engineering


	ASSIGNMENT Unit-IV	2015-16
		Regulation: R12

Assignment / Questions

- 1) Briefly describe Interaction diagrams
- 2) Describe Sequence diagrams
- 3) Describe Collaboration Diagrams
- 4) Describe Forward and Reverse Engineering

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: V.Krishna Reddy & Ch.Srinivasulu

Subject OOAD

Subject Code

Unit V

INSTRUCTIONAL OBJECTIVES:

Session No	Topics to be covered	Time	Ref	Teaching Method
1	Basic Behavioural modelling-2	50 mins	The Unified Modelling User Guide	Black Board
2	Use cases	50 mins	The Unified Modelling User Guide	Black Board
3	Terms and concepts	50 mins	The Unified Modelling User Guide	Black Board
4	Use cases and flow of events	50 mins	The Unified Modelling User Guide	Black Board
5	Organizing use cases	50 mins	The Unified Modelling User Guide	Black Board
6	Use case diagrams	50 mins	The Unified Modelling User Guide	Black Board
7	Modelling a context of a system	50 mins	The Unified Modelling User Guide	Black Board
8	Activity diagrams	50 mins	The Unified Modelling User Guide	Black Board


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

1.Understand what a use case is.

2.Understand how you draw a use case

3 Understand how to organize a use case.

4Understand a Activity diagram.


	ASSIGNMENT Unit-V	2015-16
		Regulation: R12

Assignment / Questions

- 1) Briefly describe use case diagrams.
- 2) Describe use case diagram for a cellular phone.
- 3) Describe how to organize use cases
- 4) Describe 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: V.Krishna Reddy & Ch.Srinivasulu

Subject OOAD

Subject Code

Unit VI

INSTRUCTIONAL OBJECTIVES:

Session No	Topics to be covered	Time	Ref	Teaching Method
1	Advanced Behavioral modeling	50 mins	The Unified Modelling User Guide	Black Board
2	Events and signals	50 mins	The Unified Modelling User Guide	Black Board
3	State Machines	50 mins	The Unified Modelling User Guide	Black Board
4	Process and threads	50 mins	The Unified Modelling User Guide	Black Board
5	Time and space	50 mins	The Unified Modelling User Guide	Black Board
6	State chart diagrams	50 mins	The Unified Modelling User Guide	Black Board
7	Transitions	50 mins	The Unified Modelling User Guide	Black Board
8				


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

1.Understand events and signals

2Understand state macvhines

3.Understand Time and Space

4 Understand State Chart Diagrams`

	ASSIGNMENT Unit-VI	2015-16
		Regulation: R12

Assignment / Questions

- 1) Describe Events and Signals.
- 2) Describe State machines
- 3) Describe Processes and Threads
- 4) Describe state chart diagrams
- 5) Describe Time and Space/

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: V.Krishna Reddy & Ch.Srinivasulu

Subject OOAD

Subject Code


Unit VII

INSTRUCTIONAL OBJECTIVES:

Session No	Topics to be covered	Time	Ref	Teaching Method
1	Architectural Modelling	50 mins	The Unified Modelling User Guide	Black Board
2	Component	50 mins	The Unified Modelling User Guide	Black Board
3	Terms and Concepts	50 mins	The Unified Modelling User Guide	Black Board
4	Components and classes	50 mins	The Unified Modelling User Guide	Black Board
5	Components and interfaces	50 mins	The Unified Modelling User Guide	Black Board
6	Deployment	50 mins	The Unified Modelling User Guide	Black Board
7	Component diagrams	50 mins	The Unified Modelling User Guide	Black Board
8	Deployment diagrams	50 mins	The Unified Modelling User Guide	Black Board

On completion of this lesson the student shall be able to

- 1.Understand components
- 2 Understand Deployment
- 3)Understand Component diagrams
- 4)Understand Deployment diagrams

	ASSIGNMENT Unit-VII	2015-16
		Regulation: R12

Assignment / Questions

- 1) Briefly describe Components.
- 2) Briefly describe Deployment
- 3) Briefly describe Component Diagrams.
- 4) Briefly describe Deployment Diagrams.

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: V.Krishna Reddy & Ch.Srinivasulu

Subject OOAD

Subject Code


Unit VIII

INSTRUCTIONAL OBJECTIVES:

Session No	Topics to be covered	Time	Ref	Teaching Method
1	Library Application	50 mins	The Unified Modelling User Guide	Black Board
2	Static diagrams	50 mins	The Unified Modelling User Guide	Black Board
3	Dynamic Diagrams	50 mins	The Unified Modelling User Guide	Black Board
4	Summary	50 mins	The Unified Modelling User Guide	Black Board

On completion of this lesson the student shall be able to

1. Understand the library application
2. Drawing the static diagrams
3. Draw the Dynamic Diagram
- 4 Summary.

	ASSIGNMENT Unit-VIII	2015-16
		Regulation: R12

Assignment / Questions

- 1) Describe the Library Application
- 2) Describe the static diagrams
- 3) Describe the dynamic diagrams
- 4) Summary

Signature of Faculty

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