

**ST. ANN'S COLLEGE OF ENGINEERING & TECHNOLOGY: CHIRALA**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**LECTURE SCHEDULE**

**Subject: UML & Design Patterns**  
**Name : Mr. I. BALA VENKATESWARLU**  
**No. of Lectures per week: 4+1\*(Tutorial)**

**Academic Year: 2017-18**  
**Year & Sem/Section: IV-I-SEM 'B'**

S. NO	DATE	UNITS	TOPICS
1	19/06/17	<b>I</b>	Introduction
2	20/06/17		Introduction to OOAD
3	21/06/17		Introduction to OOAD
4	22/06/17		Introduction to UML
5	24/06/17		Introduction to UML
6	27/06/17		Typical activities / workflows / disciplines in OOAD
7	28/06/17		Introduction to Iterative development and the Unified Process
8	29/06/17		Iterative development and the Unified Process
9	01/07/17		mapping disciplines to UML artifacts
10	03/07/17		<b>TUTORIAL</b>
11	04/07/17		Introduction to Design Patterns, goals of a good design
12	05/07/17		Introducing a case study with MVC architecture
13	06/07/17		<b>UNIT-1 REVISION with PPT OR NPTEL VIDEOS</b>
14	10/07/17		<b>TUTORIAL</b>
15	11/07/17		<b>SLIP TEST-1</b>
16	12/07/17	<b>II</b>	<b>Inception:</b> Artifacts in inception
17	13/07/17		Understanding requirements - the FURPS model
18	15/07/17		Understanding Use case model
19	17/07/17		<b>TUTORIAL</b>
20	18/07/17		Introduction, use case types and formats, Writing use cases
21	19/07/17		goals & scope of a use case, elements / sections of a use case
22	20/07/17		Use case diagrams
23	22/07/17		Use cases in the UP context and UP artifacts
24	24/07/17		<b>TUTORIAL</b>
25	25/07/17		Identifying additional requirements
26	26/07/17		Writing requirements for the case study in the use case model
27	27/07/17		<b>UNIT-2 REVISION with PPT OR NPTEL VIDEOS</b>
28	29/07/17	<b>III</b>	<b>Elaboration:</b> System sequence diagrams for use case model
29	31/07/17		<b>TUTORIAL</b>
30	01/08/17		<b>SLIP TEST-2</b>
31	02/08/17		Domain model, identifying concepts, adding associations
32	03/08/17		adding attributes for use case, Interaction Diagrams
33	05/08/17		Introduction to GRASP design Patterns
34	07/08/17		<b>TUTORIAL</b>
35	08/08/17		Design Model: Use case realizations with GRASP patterns
36	09/08/17		Design Class diagrams in each MVC layer, Mapping Design to Code
37	10/08/17		Design class diagrams for case study and skeleton code
38	12/08/17	<b>REVISION OF PREVIOUS QUESTION PAPERS</b>	
39	16/08/17	<b>REVISION OF PREVIOUS QUESTION PAPERS</b>	

40	17/08/17		REVISION OF PREVIOUS QUESTION PAPERS	
41	19/08/17		REVISION OF PREVIOUS QUESTION PAPERS	
42	21/08/17		<b>TUTORIAL</b>	
43	22/08/17		REVISION OF PREVIOUS QUESTION PAPERS	
44	23/08/17	IV	Introduction to Advanced Design Patterns	
45	24/08/17		Fabrication	
46	28/08/17		<b>TUTORIAL</b>	
47	29/08/17		<b>UNIT-3 REVISION with PPT OR NPTEL VIDEOS</b>	
48	30/08/17		Indirection	
49	31/08/17		Singleton	
50	04/09/17		<b>TUTORIAL</b>	
51	05/09/17		Factory	
52	06/09/17		Facade	
53	07/09/17		Facade	
54	09/09/17		Publish-Subscribe	
55	11/09/17		<b>TUTORIAL</b>	
56	12/09/17		<b>UNIT-4 REVISION with PPT OR NPTEL VIDEOS</b>	
57	13/09/17		<b>SLIP TEST-3</b>	
58	14/09/17		V	UML diagrams
59	16/09/17			State-Chart diagrams
60	18/09/17			<b>TUTORIAL</b>
61	19/09/17	Activity diagrams		
62	20/09/17	Component Diagrams		
63	21/09/17	Deployment diagrams		
64	23/09/17	Object diagrams		
65	25/09/17	<b>TUTORIAL</b>		
66	26/09/17	Object diagrams		
67	27/09/17	<b>UNIT-5 REVISION with PPT OR NPTEL VIDEOS</b>		
68	03/10/17	<b>SLIP TEST-4</b>		
69	04/10/17	VI	Advanced concepts in OOAD, Use case relationships	
70	05/10/17		Generalizations	
71	07/10/17		Domain Model refinements	
72	09/10/17		<b>TUTORIAL</b>	
73	10/10/17		Relationships of Use cases	
74	11/10/17		Architecture UML	
75	12/10/17		Packaging model elements	
76	14/10/17		<b>UNIT-6 REVISION with PPT OR NPTEL VIDEOS</b>	
77	16/10/17		<b>TUTORIAL</b>	
78	17/10/17		REVISION OF PREVIOUS QUESTION PAPERS	
79	18/10/17		REVISION OF PREVIOUS QUESTION PAPERS	
80	19/10/17		REVISION OF PREVIOUS QUESTION PAPERS	
81	21/10/17		REVISION OF PREVIOUS QUESTION PAPERS	
82	23/10/17		<b>TUTORIAL</b>	

**TEXT BOOKS:**

1. 'Applying UML and patterns' by Craig Larman, Pearson
2. Object-Oriented Analysis & Design with the Unified Process by Satzinger, Jackson & Burd Cengage Learning
3. 'UML distilled' by Martin Fowler, Addison Wesley, 2003

**REFERENCE BOOKS:**

1. O'reilly' s 'Head-First Design Patterns' by Eric Freeman et al, Oreilly
2. UML 2 Toolkit, by Hans-Erik Eriksson, Magnus Penker, Brian Lyons, David Fado: WILEY'-Dramatic India Pvt. Lid.

**FACULTY MEMBER**

**HEAD OF THE DEPARTMENT**