

Bhoj Reddy Engineering College for Women: Hyderabad

Department of Information Technology

Lesson plan of faculty member for the academic year 2017–18

Class: IV B Tech

Branch-Section: IT-A

Semester: I

Subject: Design Patterns

Lectures per week: 4+1 (Tutorial)

Lecture Number	Topics to be covered	Date (s)
UNIT – I		
1	Introduction, Essence and Application	12 July 2017
2	Elements and Attributes	13 July 2017
3	Catalog and classifications	15 July 2017
4	Tutorial (G3) - on Describing Design Patterns	14 July 2017
5	Design Patterns in Smalltalk MVC	18 July 2017
6	How Design Patterns Solve Design Problems	19 July 2017
7	Organizing the catalog	20 July 2017
8	Specifying object interfaces	22 July 2017
9	Tutorial (G2,G3) - on Describing Design Patterns	18,21 July 2017
10	Designing for change	25 July 2017
11	How to Select a Design Pattern?	26 July 2017
12	How to use a Design Pattern?	27 July 2017
UNIT-II		
13	A Case Study : Designing a Document Editor	29 July 2017
14	Tutorial (G1, G2, G3) - on DP Solving Design Problems	24,25,28 July 2017
15	Design Problems, Document Structure	1 August 2017
16	Formatting, Embellishing the User Interface	2 August 2017
17	Supporting Multiple Look &Feel Standards	3 August 2017
18	Supporting Multiple Window Systems	5 August 2017
19	Tutorial (G1, G2, G3)- on Document Structure	31 July,1,4 August 2017
20	User Operations, Spell check, Hyphenation,	8 August 2017
21	Creational Patterns - Factory Method	9 August 2017
22	Abstract Factory	10 August 2017
23	Builder	12 August 2017
24	Tutorial (G1, G2, G3)-on Supporting Multiple Look & Feel	7,8,11 August 2017
25	Prototype	16 August 2017
26	Singleton	17 August 2017
27	Discussion of creational patterns	19 August 2017
28	Tutorial G3 on Prototype	18 August 2017
29	Revision test on unit-1&2	22 August 2017
UNIT-III		
30	Adaptor Structural Pattern Part-I: Adapter	23 August 2017
31	Bridge	24 August 2017
32	Composite	26 August 2017
33	Tutorial (G1,G2)- on Singleton ,Builder	21,22 August 2017
34	Decorator	29 August 2017
35	Facade	30 August 2017
36	Discuss about structural patterns	31 August 2017
37	Tutorial (G1,G2,G3)- on Bridge, composite	28,29 August,1 September 2017
38	Revision unit-1,2,3	5 September 2017
39	Discuss online bits	9 September 2017
40	Tutorial (G1,G2)- on decorator, Facade	4,5 September 2017
41	Flyweight	12 September 2017
42	Proxy	13 September 2017

UNIT-IV

43	Behavioral Patterns Part I: Chain of Responsibility	14 September 2017
44	Command	16 September 2017
45	Tutorial (G1,G2,G3)- on Facade, Adapter, Decorator	11,12,15 September 2017
46	Interpreter	19 September 2017
47	Iterator	21 September 2017
48	Discussion of Behavioral patterns- I	23 September 2017
49	Tutorial(G1,G2,G3)- on, Iterator, Mediator, Command	18,19,22 September 2017
50	Behavioral Patterns Part-II Mediator	3 October 2017
51	Memento	4 October 2017
52	Observer	5 October 2017
53	Discussion of Behavioral patterns- II	7 October 2017
54	Tutorial (G2,G3)- on Command, observer	3 ,6 October 2017
55	Revision test on Behavioral patterns	10 October 2017

UNIT-V

56	Behavioral Patterns Part-II (cont`d)State	11 October 2017
57	Strategy	12 October 2017
58	Template Method	14 October 2017
59	Tutorial (G1,G2,G3)- on Memento,Interpreter,Iterator	9,10,13 October 2017
60	Visitor	17 October 2017
61	Discussion on Behavioral Patterns	19 October 2017
62	What to expect from design patterns	21 October 2017
63	Tutorial(G1,G2,G3)- on Observer, State, Strategy	16,17,20 October 2017
64	A Brief History	24 October 2017
65	A Pattern community	25 October 2017
66	Alexanders pattern languages	26 October 2017
67	Pattern in software	28 October 2017
68	Tutorial(G1,G2,G3)-on Template Method The Pattern Community, An Invitation	23,24,28 October 2017
69	An Invitation	31 October 2017
70	A Target for Refactoring	1 November 2017
71	A parting Thought	2 November 2017
72	Tutorial(G1,G2,G3)- on doubts on any DP	30,31 October,3November 2017
73	Previous question papers Revision.	7 November 2017
74	Tutorial(G1,G2)- on doubts on any DP	6,7 November 2017

Text books:

1. Design Patterns by Erich Gamma, Person Education

Name and signature of the faculty: Mrs. V.Veda Sahithi -----

Name and signature of Head of the Department: Mr. K.Sandeep Kumar. -----