

Course Log Template

INSTITUTION FAST-NU

PROGRAM (S) TO BE EVALUATED BS Computer Science

Course Name Software Design and Analysis
Catalog Number CS 324
Instructor Name Javeria Farooq

Topics Covered in the Course:

<u>Weeks</u>	<u>Topic</u>	<u>hours</u>
1.	OOP Concepts revision and Course Introduction	3
2.	Introduction to SAD and OOAD, Different software development approaches, SDLC	3
3.	Unified Process, The Rational Unified Process, Requirement Engineering	3
4.	Introduction to UML Use Cases, Use Case Diagram, Case Study	2
5.	Domain Model, Concepts of classes and objects in UML Class Diagrams	2
6.	MID-1	2
7.	Activity Diagrams Case Study	2
8.	Advance features of Activity Diagrams	2
9.	Discovering Classes Kinds of Analysis Classes Entity Control & Boundary Classes	2
10.	Interaction diagrams Sequence Diagrams	2
11.	MID-2	2
12.	Collaboration Diagram, State chart diagrams	2
13.	Implementation Diagrams Component & Deployment Diagrams	2
14.	User Interface Design	2
15.	Introduction to Advance Design Patterns Introduction to Model View Controller (MVC) Façade / Singleton Pattern, Adapter / Factory Patterns	3
16.	Project Presentation and Discussion	3



Laboratory Projects/Experiments Done in the Course:

<u>Topic</u>	<u>hours</u>
Lab 1: Use Case Diagram	1
Lab 2: Class Diagrams	1
Lab 3: Activity Diagrams	1
Lab 4: Advance Activity Diagram	1
Lab 5: sequence Diagram	1
Lab 6: Collaboration Diagram	1
Lab 7 : State chart diagrams	1
Lab 8: Component & Deployment Diagrams	1
Lab 9: Design patterns	1

Instructor Signature _____

Date _____