

# **DR. NASHARYA**

KHENTAWAS, FARRUKHNAGAR, GURGAON, HR

Department:

Academic Session: 2017-18 (Jan-June 2018)

Lesson Plan for the Semester started w.e.f 08.01.2018

Subject with code: Principles of Software Engineering (CSE-302F)

Name of Faculty with designation : Ms. Ashima Mehta (Assistant Professor)

Month	Date & Day	Sem-Class	Unit	Topic/Chapter covered	Academic activity	Test / assignment
January		VI-IT	1	Introduction to Software Engineering Process	.....	
January		VI-IT	1	Emergence and Evolving Role of Software Engineering		
January		VI-IT	1	Software Life Cycle Model-I		
January		VI-IT	1	Software Life Cycle Model-II		Assignment of 02 Ques. given
January		VI-IT	1	Software Life Cycle Model-III and Software Characteristics		
January		VI-IT	1	Applications and Software Crisis		
January		VI-IT		.....	Review of a. QEEE, b. NPTEL LCs, c. CISCO Academy	
January		VI-IT	1	Introduction to Project Management		
January		VI-IT	1	Introduction to Project Management and Related Concepts		
January		VI-IT	1	Software Process and Project Metrics		
February		VI-IT	1	Project Planning & Project Size Estimation Metrics		
February		VI-IT	1	Various Project Estimation Techniques		
February		VI-IT	1	COCOMO Estimation Technique and Staff Level Estimation		Assignment of 02 Ques. given

Month	Date & Day	Sem-Class	Unit	Topic/Chapter covered	Academic activity	Test / assignment
February		VI-IT	1	Risk Analysis & Management and Team Structures		
February		VI-IT	1	Project Scheduling & Tracking Concepts		
February		VI-IT	2	Introduction to Requirement Analysis and Specification		
February		VI-IT	2	Analysis Principles, Partitioning Software and Prototyping, Tools		
February		VI-IT		.....	Review of Department Progress-I	
February		VI-IT		.....	Review of a. EDC Cell, b. Spoken Tutorial, c. eYantra Lab, d. Rotract & NSS Wing	
February		VI-IT		.....	First Sessional Test	
February		VI-IT	2	Software Requirements Specification (SRS) and Review Analysis Modeling		
March		VI-IT	2	Data Modeling, Functional Modeling and Information Flow Concepts		
March		VI-IT	2	Data Flow Diagrams (DFD) with Example		
March		VI-IT	2	Mechanics of Structured Analysis (Creating ER Diagram)		
March		VI-IT	2	Data Flow Model Vs Control Flow Model and Data Dictionary		
March		VI-IT	2	Introduction to System Design and Its Related Concepts		
March		VI-IT	2	Abstraction, Refinement, Modularity, Data Structure, Information Hiding		
March		VI-IT		.....	Sports Meet (Only Final Rond)	
March		VI-IT	2	Effective Modular Design Concepts i.e. Cohesion and Coupling, Design Documentation		
March		VI-IT	3	Introduction to Architecture Design Concepts Including Data Design, Databasis and Data Warehouse		Assignment of 02 Ques. given

Month	Date & Day	Sem-Class	Unit	Topic/Chapter covered	Academic activity	Test / assignment
March		VI-IT	3	Mapping Requirements into Software Architecture and Transform Mapping		
March-April		VI-IT		.....	Second Sessional Test	
April		VI-IT	3	Testing Concepts: Testing Fundamental, Principles, Test Case Design and Objecties		
April		VI-IT	3	Types of Testing-I		
April		VI-IT	3	Types of Testing-II and Verification & Validation		
April		VI-IT		.....	Parents Teacher Meet, Project Competition "Innovision-2018"	
April		VI-IT	3	Debugging Process, Software Re-Engineering, Reverse Engineering and Forward Engineerng		
April		VI-IT	3	Testing for Specialized Environments, Architectures and Applications		
April		VI-IT	4	Introduction to Software Reliability and Quality Assurance Concepts, SQA Activities	Review of Department Progress-III	
April		VI-IT	4	Software Reviews: Cost Impact of S/W Defects and Removal, Formal Technical Reviews, Review Meeting and Reporting, Record Keeping and Review Guidelines, Formal Approaches to SQA		
April		VI-IT	4	Measures of S/W Reliability and Availability, ISO 9000 Quality Standard, ISO 9001 & Software Configuration Management, CASE Building Blocks, Integrated Case Environments, Architecture and Repository		
April		VI-IT		.....	Final Project Presentation	
April		VI-IT		.....	Pre-University Test (Tentative)	

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<b>April</b>		<b>VI-IT</b>		.....	<b>Presentation of Department Progress</b>	
<b>May</b>		<b>VI-IT</b>		.....	<b>Viva-Voce</b>	