

VIKASH INSTITUTE OF TECHNOLOGY, BARGARH

LESSON PLAN

Semeste	er: 6th	Year: 2025	Course:B.Tech	
		Sub:SOFTWARE ENGINEERING	Total Credit:3	
Branch : CSE		Sub Code : : RCS6C001		
Name o	of the Faculty:	SANJUKTA URMA		
Designation :		Lecturer		
Department :		Computer Science & Engineering		
Session		2024-25		
		Text book:		
		 "Computer Organization and Design: The Hardware/Software Interface", 5th Edition by David A. Patterson and John L. Hennessy, Elsevier. "Computer Organization and Embedded Systems", 6th Edition by CarlHamacher, McGraw Hill Higher Education. 		
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Sl. No.	Lecture No.	Topics to be covered	No. of Classes	
Sl. No.	Lecture No.	Topics to be covered MODULE-1	No. of Classes	
Sl. No.	Lecture No.		No. of Classes	
		MODULE-1	No. of Classes	
1	Lecture-01	MODULE-1 Software Product, Software crisis	No. of Classes	
1 2	Lecture-01 Lecture-02	MODULE-1 Software Product, Software crisis Handling complexity through Abstraction and Decomposition	No. of Classes	
1 2 3	Lecture-01 Lecture-02 Lecture-03	MODULE-1 Software Product, Software crisis Handling complexity through Abstraction and Decomposition Overview of software development activities, Process Models		
1 2 3 4	Lecture-01 Lecture-02 Lecture-03 Lecture-04	MODULE-1 Software Product, Software crisis Handling complexity through Abstraction and Decomposition Overview of software development activities, Process Models Cloud computing Reference model		
1 2 3 4 5	Lecture-01 Lecture-02 Lecture-03 Lecture-04 Lecture-05	MODULE-1 Software Product, Software crisis Handling complexity through Abstraction and Decomposition Overview of software development activities, Process Models Cloud computing Reference model Classical waterfall model, iterative waterfall model,		
1 2 3 4 5 6	Lecture-01 Lecture-02 Lecture-03 Lecture-04 Lecture-05 Lecture-06	MODULE-1 Software Product, Software crisis Handling complexity through Abstraction and Decomposition Overview of software development activities, Process Models Cloud computing Reference model Classical waterfall model, iterative waterfall model, prototyping mode, evolutionary model,		
1 2 3 4 5 6 7	Lecture-01 Lecture-02 Lecture-03 Lecture-04 Lecture-05 Lecture-06 Lecture-07	MODULE-1 Software Product, Software crisis Handling complexity through Abstraction and Decomposition Overview of software development activities, Process Models Cloud computing Reference model Classical waterfall model, iterative waterfall model, prototyping mode, evolutionary model, spiral model, RAD model,		
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1 2 3 4 5 6 7 8	Lecture-01 Lecture-02 Lecture-03 Lecture-04 Lecture-05 Lecture-06 Lecture-07 Lecture-08	MODULE-1 Software Product, Software crisis Handling complexity through Abstraction and Decomposition Overview of software development activities, Process Models Cloud computing Reference model Classical waterfall model, iterative waterfall model, prototyping mode, evolutionary model, spiral model, RAD model, Agile models: Extreme Programming, and Scrum. MODULE-2		
1 2 3 4 5 6 7 8 8 9	Lecture-01 Lecture-02 Lecture-03 Lecture-04 Lecture-05 Lecture-06 Lecture-07 Lecture-08	MODULE-1 Software Product, Software crisis Handling complexity through Abstraction and Decomposition Overview of software development activities, Process Models Cloud computing Reference model Classical waterfall model, iterative waterfall model, prototyping mode, evolutionary model, spiral model, RAD model, Agile models: Extreme Programming, and Scrum. MODULE-2 Requirement Gathering and Analysis, Functional and		

13	Lecture-13	Structured Analysis & Design: Overview of design process					
14	Lecture-14	High-level and detailed design, Cohesion and coupling,	11				
15	Lecture-15	Modularity and layering, Function–Oriented software design: Structured Analysis using DFD Structured Design using Structure Chart,					
16	Lecture-16	Basic concepts of Object Oriented Analysis & Design.					
17	Lecture-17	User interface design					
18	Lecture-18	Command language,					
19	Lecture-19	menu and iconic interfaces					
		MODULE-3					
20	Lecture-20	Coding and Software Testing Techniques: Coding,					
21	Lecture-21	Code Review, Testing: -Unit testing,					
22	Lecture-22	Black-box Testing, White-box testing,					
23	Lecture-23	Cyclomate complexity measure, coverage analysis	8				
24	Lecture-24	mutation testing, Debugging techniques,					
25	Lecture-25	Integration testing, System testing					
26	Lecture-26	Regression testing, Testing under Control					
27	Lecture-27	Software Reliability and Software					
	MODULE-4						
28	Lecture-28	Basic concepts in software reliability,					
29	Lecture-29	reliability measures, reliability growth					
30	Lecture-30	modeling,					
31	Lecture-31	Characteristics of software maintenance,					
32	Lecture-32	software reverse engineering,					
33	Lecture-33	software reengineering,	11				
34	Lecture-34	software reuse.					
35	Lecture-35	Emerging Topics: Client-Server Software					
36	Lecture-36	Engineering					
37	Lecture-37	Service-oriented Architecture (SOA)					
38	Lecture-38	Software as a Service (SaaS)					

Signature of Faculty Member

Signaturer Of HOD