Software Engineering					Programming Fundamentals	
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ure the team i	tive: 1. This course s setup for change. introduces practices	_			levelopment team uses	s to make
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S. NO.				comes (CO)	28-4-1	
S. NO.	Understand the fi			comes (CO)		

CO3	Apply principles and algorithms to understand Agile software development model.						
CO4	Learn to critically evaluate the various tecsting techniques and test case generations.						
CO5	Comfortably and effectively participate in various techniques and processes for building high quality software.	g scalable and					
S. NO.	Contents	Contact Hours					
UNIT 1	Introduction of Software Engineering: Need for software engineering, Software quality attributes, Software product pipelines, Software life cycle models and processes, Requirement engineering using UML Diagrams.	9					
UNIT 2	Software Architecture and Design: Design principles, Design Patterns, Architecture Versus Design, Modularity, Software Components and Connectors, Architecture Styles.	6					
UNIT 3	Essence of Modern Software Engineering: Software engineering essence, Essence language, Essence kernel, Using essence kernel in agile development practices, Agile Principles, Agile process models through essence kernel, Large scale complex development Using kernel	13					
UNIT 4	Software Testing: Quality metrics, Coding style and Static analysis tools, Verification and validation, Various testing techniques and Test case generations.	7					
UNIT 5	Software Project Management: Software versioning and Continuous integration, Project management and Risk analysis, Configuration management, Cost analysis and estimation.	7					
	TOTAL	42					