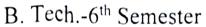
PRANVEER SINGH INSTITUTE OF TECHNOLOGY, KANPUR

Session 2023-24





Software Engineering (KDS-063)

CO	Course Outcome		
Number			
CO1	Define [1. Knowledge] the concepts related to various aspects of Software Engineering.		
CO2	Explain [2.Comprehension] various Software Development models, Requirement Engineering, Design paradigms and strategies used in testing and Maintenance.		
CO3	Compute [3. Application] complexity based on different metrics and measure and apply the development & design concepts in DFDs, UML Diagrams etc.		
CO4	Analyze [4. Analysis] various software development models, project management techniques and design paradigm.		

	techniques and design paradigm.	
	Time: 1.5 Hrs.	M. M. 15
Q1	Section A Attempt all questions: Define Software Components.	(1X3 = 3 Marks)
b)	Define Software crisis.	COI
c)	Explain the problem faced by software crisis.	CO2
	Section B	
Q2.	Attempt all questions:	(2X4 = 8 Marks)
a i)	Define the various types of feasibility study. Or	COI
ii)	State the various phases of software development life cycle in detail.	· CO1
bi)	Explain the umbrella activities performed in software process framework. Or	CO2
ii)		CO2
c i)	Identify the significance of Data flow Diagram (DFD) in Software engineering components. Or	
ii	Explain an E-R diagram for Banking management system along with all com	ponents used CO2
d i)	with their function.	CO2
ii	inting of good software.	CO2

Section C

(4X1 = 4 Marks)

Q3

i) Demonstrate the spiral model and explain all its stages in detail with the help of neat diagram.

CO3

Also give its advantages and disadvantages.

Or

ii) Demonstrate prototype model and its phases with neat sketch. Determine the advantages CO3 and disadvantages of prototype model.