

Nov - Dec 2025-26

(B. Tech / M. Tech.) Program: Information Technology Scheme III

Regular: TY Semester: V

Course Code: ITDLC5042 and Course Name: Advanced Software Engineering and

**Project Management**

Duration: 02.5 Hours

Max. Marks: 60

Date of Exam: 01/12/2025

**Instructions:**

- (1) All questions are compulsory.
- (2) Draw neat diagrams wherever applicable.
- (3) Assume suitable data, if necessary.

Q. No.	Question	Max. Marks	CO	BT level
<b>Q 1</b>	<b>Solve any two questions out of three: (05 marks each)</b>	<b>10</b>		
a)	Explain Capability Maturity Model (CMM).	CO1	U	
b)	Explain design process and Quality in design engineering.	CO2	U	
c)	Explain 3Ps Management Spectrum.	CO3	U	
<b>Q 2</b>	<b>Solve any two questions out of three: (05 marks each)</b>	<b>10</b>		
a)	Explain RMMM plan in detail.	CO4	U	
b)	Explain Architectural pattern.	CO5	U	
c)	Describe Motivations for Micro Services.	CO6	U	
<b>Q.3</b>	<b>Solve any two questions out of three. (10 marks each)</b>	<b>20</b>		
a)	Describe any one Evolutionary Process Model.	CO1	U	
b)	Describe the Golden Rules in design engineering.	CO2	U	
c)	Explain Project Life Cycle and ITPM in project management	CO3	U	
<b>Q.4</b>	<b>Solve any two questions out of three. (10 marks each)</b>	<b>20</b>		
a)	Explain Software Configuration Management.	CO4	U	
b)	Explain Walkthrough and Dynamic testing methods in detail.	CO3	U	
c)	Explain Micro Services and Monolithic architecture.	CO6	U	

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