Code No: R203105B (R20) (SET - 1)

III B. Tech I Semester Regular Examinations, Dec/Jan - 2022-23 SOFTWARE PROJECT MANAGEMENT

(Computer Science and Engineering)

		(Computer Science and Engineering)			
Time: 3 hours Max. Marks: 70					
		Answer any FIVE Questions ONE Question from Each unit All Questions Carry Equal Marks *****			
1.	a) b)	<u>UNIT-I</u> Give the Theoretical implications of Waterfall Model. Explain about the five basic parameters that most software models can be abstracted into.	[7M] [7M]		
0	۵)	(OR)	[/7][/[]		
2.	a)	Illustrate a software cost estimation process.	[7M]		
	b)	Explain in details the generations of software development. <u>UNIT-II</u>	[7M]		
3.	a)	Explain about the Engineering and production stages in the Software Life cycle process.	[7M]		
	b)	What are design set artifacts? How are they evaluated? (OR)	[7M]		
4.	a)	Explain the essential activities of the Inception and the Elaboration phases.	[7M]		
	b)	Why artifact sets are classified into engineering and management sets? Explain . UNIT-III	[7M]		
5.	a)	Explain the Software Architecture from the management perspective.	[7M]		
	b)	What is a workflow? Explain in detail the process workflows.	[7M]		
6.	a)	(OR) State the heuristics that describe objectively an architecture baseline.	[7M]		
	b)	What is a milestone? Explain Major and Minor Milestones with respect to the software process.	[7M]		
7.	a)	Explain the roles and responsibilities of the default line-of-	[7M]		
	b)	business organization. What is Automation? Explain the building blocks for process automation.	[7M]		
		(OR)			
8.	a)	Illustrate the software project team evolution over the life cycle	[7M]		
	b)	Explain about the four Quality indicators used in the software process.	[7M]		
		<u>UNIT-V</u>			
9.	a)	What is Agile methodology? Explain the properties of Agile methodology.	[7M]		
	b)	What is DevOps? Explain the DevOps delivery pipelining. (OR)	[7M]		
10.	a) b)	What is SCRUM model? Focus on its cycles. Explain the tools that support implementation of DevOps.	[7M] [7M]		

1 of 1

SET - 2 R20 Code No: R203105B

III B. Tech I Semester Regular Examinations, Dec/Jan - 2022-23 SOFTWARE PROJECT MANAGEMENT

(Computer Science and Engineering)

l'im	e: 3	hours Max. Marks	s: 70
		Answer any FIVE Questions ONE Question from Each unit	
		All Questions Carry Equal Marks	

_		<u>UNIT-I</u>	
1.	a)	Explain Water fall model. Explain its implications to software	[7M]
	b)	project management. Give the characteristics of a successful software project.	[7][1]
	b)	(OR)	[7M]
2.	a)	Describe the steps in the cost estimation process of software.	[7M]
	,	Also focus on the roles involved in it.	[]
	b)	Explain the principles of Modern software management.	[7M]
		<u>UNIT-II</u>	
3.	a)	Compare the activities of Engineering and production stages in	[7M]
		the Software Life cycle process.	
	b)	What is the impact of iterative development on artifact	[7M]
		evolution? (OR)	
4.	a)	Explain the objectives and essential activities of the Inception	[7M]
••	u,	and Elaboration Phases.	[, 1,1]
	b)	Give the classification of Engineering artifacts along with their	[7M]
		formats.	
_	,	<u>UNIT-III</u>	1
5.	a)	Explain the software architecture from the Technical perspective.	[7M]
	b)	Elaborate on the Iteration Planning Process with a neat diagram	[7M]
		(OR)	
б.	a)	What is the sequence of individual iteration workflows?	[7M]
	b)	Explain the typical Minor Milestones in the life cycle iterations.	[7M]
_		<u>UNIT-IV</u>	
7.	a)	Explain the roles and responsibilities of the default line-of-	[7M]
	b)	business organization. Explain about the four Quality indicators used in the software	[7M]
	D)	process.	[111]
		(OR)	
8.	a)	Explain in detail the default project organization and	[7M]
		responsibilities.	
	b)	Give the Seven Core metrics that are used in managing the	[7M]
		software process. UNIT-V	
9.	a)	What are the disadvantages of traditional methodology over Agile	[7M]
	щ	methodology? How to transit to SCRUM model?	[, 141]
	b)	Compare the tools that support implementation of DevOps.	[7M]
	•	(OR)	
10.	a)	What is Agile methodology? Explain the properties of Agile	[7M]
		methodology.	

b) Give the significance of various components of DevOps eco [7M]

1 of 1

Code No: R203105B (R20) (SET - 3

III B. Tech I Semester Regular Examinations, November -2022 SOFTWARE PROJECT MANAGEMENT

(Computer Science and Engineering)

Time: 3 hours Max. Marks: 70 Answer any FIVE Questions ONE Question from Each unit All Questions Carry Equal Marks UNIT-I 1. Explain the waterfall model and its significance in software [7M] project management. Explain the pragmatic cost estimation process. b) [7M] (OR) Describe the three generations of software economics. 2. a) [7M] b) Explain the trends in improving software economics. [7M] **UNIT-II** 3. Explain the evolution of life cycle of artifact sets. a) [7M] Describe the two stage of life cycle to achieve economies of scale [7M] and higher returns. (OR) 4. essential activities of the Elaboration and [7M] Explain the a) Construction. Give an overview on the artifact sets. [7M]b) UNIT-III 5. a) "Architecture is the most critical product of a software project". [7M] Justify. Explain the types of management reviews that are conducted [7M] b) throughout the process. (OR) 6. What is a workflow? Explain in detail the process workflows. [7M]b) What is a work breakdown structure? How is it significant in [7M] process planning? **UNIT-IV** Illustrate the software project team evolution over the life cycle. 7. [7M] What is Round Trip Engineering? Explain. [7M](OR) 8. Explain the responsibilities of the four component teams in a [14 line of business organization with a neat diagram. MUNIT-V 9. What are the five principles of SCRUM? Explain them a) [7M] What are the four key components of DevOps? Explain them. b) [7M] (OR) What is Agile methodology? Explain the properties of Agile 10. a) [7M] methodology. What is the difference between Agile and DevOps? Give the b) [7M]

principles of DevOps.

III B. Tech I Semester Regular Examinations, Dec/Jan – 2022-23 SOFTWARE PROJECT MANAGEMENT

(Computer Science and Engineering)

Tim	Time: 3 hours Max. Marks: 70					
Answer any FIVE Questions ONE Question from Each unit All Questions Carry Equal Marks						

		<u>UNIT-I</u>				
1.	a)	Give Boehm's "Industrial Software Metrics top 10 list".	[7M]			
	b)	How to reduce software product size? Explain (OR)	[7M]			
2.	a)	Classify the three levels of processes and their attributes in	[7M]			
	b)	improving software process. Describe the process of improving automation through software environments.	[7M]			
		<u>UNIT-II</u>				
3.	a)	Explain the essential activities of the construction and Transition phases.	[7M]			
	b)	Give the format of release description and release specifications.	[7M]			
		(OR)				
4.	a)	Explain the primary objectives of the Inception and the Elaboration phases.	[7M]			
	b)	Give the format of software change order. Explain its components.	[7M]			
		UNIT-III				
5.	a)	Explain the types of management reviews that are conducted throughout the process.	[7M]			
	b)	Describe about Initial capability mile stone and product release milestone in detail.	[7M]			
		(OR)				
6.		Discuss the compatibility of views to that of the seven work flows with a neat diagram.	[14 M]			
7.	۵)	<u>UNIT-IV</u> Describe the automation and tool support for process workflows.	[7M]			
1.	a) b)	What are the management indicators recommended for a	[7M]			
		software project? Explain them				
8.	a)	(OR) Illustrate the software project team evolution over the life cycle.	[7M]			
	b)	Give the Seven Core metrics that are used in managing the	[7M]			
		software process.				
0	۵)	UNIT-V How is SCRIM different from other process models? Evaluin	[/7][/[]			
9.	a) b)	How is SCRUM different from other process models? Explain. How will you approach a project that needs to implement DevOps? Explain	[7M] [7M]			
		(OR)				
10.	a)	What are the technical support required for DevOps integration into software industry?	[7M]			
	b)	Mention some of the core benefits of DevOps.	[7M]			

1 of 1

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