

**BONAM VENKATA CHALAMAYYA INSTITUTE OF TECHNOLOGY & SCIENCE  
(AUTONOMOUS)**

**II – MCA I - Semester Regular Examinations (BR23), July/Aug - 2024  
SOFTWARE PROJECT MANAGEMENT (MCA )**

Time: 3 hours

Max. Marks: 70

*Answer any Five Questions One Question for One UNIT  
ALL the Question Carry Equal Marks*

UNIT-I		Marks	CO	BL
1.a)	Define Boehm's "Industrial Software Metrics top 10 list".	7M	CO1	BL1
b)	Explain about the five basic parameters that most software models can be abstracted into.	7M	CO1	BL2
<b>OR</b>				
2.a)	Describe the steps in the cost estimation process of software. Also focus on the roles involved in it.	7M	CO1	BL2
b)	Explain the trends in improving software economics.		CO1	BL2
UNIT-II		Marks	CO	BL
3.a)	Explain the essential activities of the construction and transition phases.	7M	CO2	BL2
b)	Describe the two stage of life cycle to achieve economies of scale and higher returns.	7M	CO2	BL2
<b>OR</b>				
4.a)	Illustrate the essential activities of the Inception and the Elaboration phases.	7M	CO2	BL4
b)	Discuss why artifact sets are classified in to engineering and management sets? Explain	7M	CO2	BL2
UNIT-III		Marks	CO	BL
5.a)	Explain the software architecture from the management perspective.	7M	CO3	BL2
b)	Sketch the work flow ? explain in detail the process workflows.	7M	CO3	BL3
<b>OR</b>				
6.a)	Define the heuristic that describe objectively an architecture baseline.	7M	CO3	BL1
b)	Illustrate the milestone ? Explain major and minor milestones with respect to The software process.	7M	CO3	BL4
UNIT-IV		Marks	CO	BL
7.a)	Explain the role and responsibilities of the default line-of-business Organization.	7M	CO4	BL2
b)	Describe Automation ? Explain the building blocks for process automation.	7M	CO4	BL2
<b>OR</b>				
8.a)	Illustrate the software project team evolution over the life cycle.	7M	CO4	BL4
b)	Explain about the four Quality indicators used in the software process.	7M	CO4	BL2
UNIT-V		Marks	CO	BL
9.a)	Define the agile methodology? Explain the properties of Agile methodology.	7M	CO5	BL1
b)	Analyse the DevOps ? explain the DevOps delivery pipelining.	7M	CO5	BL4
<b>OR</b>				

10.a)	Classify the SCRUM model? Focus on its cycles.	7M	CO5	BL4
b)	Explain the tools that support implementation of DevOps.	7M	CO5	BL2

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**Bonam Venkata Chalamayya Institute of Technology & Science  
(Autonomous)**

**Department of Computer Applications**

SUBJECT: Software Project Management

Year / Semester: II / I

Branch: MCA

Faculty: K..P.L.V.Bala

Academic Year: 2024-2025

**After Completion of this course the student is able to**

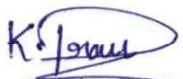
C215.1 Analyze the Conventional Software Project Management (SPM) and Modern SPM principles.  
**Analyzing**

C215.2 Outline various artifacts and activities of Iterative SDLC phases. **Applying**

C215.3 Identify various process workflows and check points of model based software Architecture. **Applying**

C215.4 Identify the Importance of Process Automation and various Core Metrics for SDLC **Applying**

C215.5 Identify suitable automation tools like DevOps, Scrum and demonstrate their capabilities **Analyzing**

  
Faculty

  
HOD