

IV B.Tech I Semester Regular Examinations, November – 2022

SOFTWARE PROJECT MANAGEMENT

(Computer Science and Engineering)

Time: 3 hours**Max. Marks: 75**

*Answer any FIVE Questions
ONE Question from Each unit
All Questions Carry Equal Marks*

UNIT-I

- 1 a) Explain three different process perspectives and their attributes. [7]
b) Discuss the pragmatic software cost estimation process. [8]
(OR)
- 2 a) Describe the role of peer reviews in improving software economics. [7]
b) List and explain any eight principles of conventional software engineering proposed by Davis. [8]

UNIT-II

- 3 a) How an operational artifact of a management set differs from planning artifacts? Explain [7]
b) Explain any ten principles of conventional software Engineering. [8]
(OR)
- 4 a) Discuss the principles of modern software management. [7]
b) Write a short note on life cycle phases. [8]

UNIT-III

- 5 a) Define the terms 'model' and 'view'. What are the three different aspects of software architecture from the management's perspective? [7]
b) Explain the significance of software architecture in the modern software development process. [8]
(OR)
- 6 What are the four major mile stones that assist project manage in achieving good quality? Explain each. [15]
- 7 a) Discuss the iteration planning process. [7]
b) Discuss the three levels of the process along with their automation support. [8]



Code No: R194105E

R19

Set No. 1

(OR)

- 8 What are WBS? Explain its categories. How WBS assist in project planning. [15]

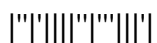
UNIT-V

- 9 a) What is the need of automation. Discuss the Automation Building blocks. [7]
b) Explain the Critical Path Analysis with an example. [8]

(OR)

- 10 a) What is the need for metrics? What do you mean by indicators? Explain. [7]
b) Why are the metrics divided into management and quality indicators? Name the core metrics under each category. [8]

JNTU FAST UPDATES



IV B.Tech I Semester Regular Examinations, November – 2022

SOFTWARE PROJECT MANAGEMENT

(Computer Science and Engineering)

Time: 3 hours**Max. Marks: 75**

*Answer any FIVE Questions
ONE Question from Each unit
All Questions Carry Equal Marks*

UNIT-I

- 1 a) What constitutes a good software cost estimate? Explain the cost estimation process. [7]
b) Explain about progress profile of a conventional software project with a neat diagram. [8]

(OR)

- 2 a) How Software Project Management differs from traditional project management? Explain [7]
b) Discuss in detail the initial process, the repeatable process, and the managed process. [8]

UNIT-II

- 3 a) Explain any four management artifacts with their formats. [7]
b) Compare and contrast the inception phase and Elaboration phase. [8]
- (OR)
- 4 a) Describe any four Engineering artifacts with their formats. [7]
b) Explain the primitive components of a software change order in project environment. [8]

UNIT-III

- 5 a) Explain the seven workflows in the life cycle. [7]
b) Discuss typical minor milestones in the life cycle of iteration. [8]
- (OR)
- 6 Define iteration. Discuss the sequence of activities in an iteration workflow. [15]

UNIT-IV

- 7 a) Explain the main features of the default line-of-business organization. [7]
b) Project planning need to be derived from two perspectives. Explain them. [8]



Code No: R194105E

R19

Set No. 2

(OR)

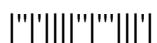
- 8 What are the four component teams in a default line-of-business organizations? Give their responsibility? [15]

UNIT-V

- 9 a) Compare and contrast CPM method with PERT method. [7]
 b) Discuss in detail the three fundamental sets of management metrics. [8]

(OR)

- 10 a) Give the reasons for selecting the seven core metrics in the software life cycle. Also, discuss the evolutionary pattern of life cycle metrics [7]
 b) Explain the life cycle expectations in Software Project Management. [8]



Code No: R194105E

R19

Set No. 3

IV B.Tech I Semester Regular Examinations, November – 2022
SOFTWARE PROJECT MANAGEMENT
(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 75

Answer any FIVE Questions
ONE Question from Each unit
All Questions Carry Equal Marks

UNIT-I

- 1 a) Discuss the improving software processes. [5]
b) Explain the conventional software Management performance principles. [10]
(OR)
- 2 a) Explain the waterfall model. What are the necessary improvements for this model? [7]
b) Illustrate different parameters of the software cost model and how they are used in improving software economics. [8]

UNIT-II

- 3 a) Give an overview of the artifact sets. Also, explain the artifacts in the management set. [7]
b) Give the primary objectives and essential activities of construction phase. [8]
(OR)
- 4 a) Explain the programmatic artifacts. [7]
b) What is meant by the Elaboration phase? Discuss the primary objectives and essential activities of the Elaboration phase. [8]

UNIT-III

- 5 Discuss the Major milestones and Minor Milestones in software project management. [15]
(OR)
- 6 What is a workflow? How is it different from artifact? Give its classification. [15]

UNIT-IV

- 7 Elaborate on the roles and responsibilities of line of business organizations with a neat diagram. [15]



Code No: R194105E

R19

Set No. 3

(OR)

- 8 Compare and contrast the engineering stage and production storage planning. [15]

UNIT-V

- 9 Discuss the role of COCOMO model in a project estimation. Give its variants. [15]

(OR)

- 10 a) Explain the PERT technique with an example. [7]
b) List and explain any four characteristics of a good software metric. [8]

JNTU FAST UPDATES



Code No: R194105E

R19

Set No. 4

IV B.Tech I Semester Regular Examinations, November – 2022
SOFTWARE PROJECT MANAGEMENT
(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 75

Answer any FIVE Questions
ONE Question from Each unit
All Questions Carry Equal Marks

UNIT-I

- 1 a) What are the top ten risks in the conventional process of software development? Explain. [7]
b) Discuss the results of conventional software project design reviews. [8]
(OR)
- 2 a) List and explain the five components of software cost models. [7]
b) Explain the water fall model with late design breakage and late risk resolution. [8]

UNIT-II

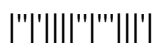
- 3 a) Distinguish between the old way and the new way of software project management. [7]
b) Discuss briefly the Engineering artifact sets. [8]
(OR)
- 4 a) Give the artifact distribution across life cycle phases. [7]
b) Discuss the primary objectives and essential activities of transition phases. [8]

UNIT-III

- 5 What is meant by a checkpoint? Give its classification. Explain briefly about periodic status assessment. [15]
(OR)
- 6 a) What are the major milestones in a software project life cycle? Explain. [7]
b) Discuss the Iteration workflows. [8]

UNIT-IV

- 7 a) Two simple planning guidelines must be considered during project initiation and assessment'. Discuss them briefly. [7]
b) How should the evolutionary WBS be structured? Explain. [8]



Code No: R194105E

R19

Set No. 4

(OR)

- 8 a) Discuss the two perspectives of deriving project plans. [7]
b) Give the roles and responsibilities of project organizations. [8]

UNIT-V

- 9 a) Discuss the life cycle expectations in software project management. [7]
b) Describe the pragmatic Software Metrics. [8]

(OR)

- 10 Elaborate on the Project Estimation and Management [15]

JNTU FAST UPDATES

