Code No:**R164105E** **R16** **Set No. 1**

**IV B.Tech I Semester Regular/Supplementary Examinations, March - 2021**

# SOFTWARE PROJECT MANAGEMENT

**(Common to Computer Science & Engineering and Information Technology)**

**Time: 3 hours** **Max. Marks: 70**

***Question paper consists of Part-A and Part-B***
***Answer ALL sub questions from Part-A***
***Answer any FOUR questions from Part-B***
*********

## PART–A*(14 Marks)*

| | | | |
|---|---|---|---|
| 1. | a) | How do you analyze project characteristics? | [2] |
| | b) | Define Artifact. | [3] |
| | c) | Define object point in the context of software effort estimation. | [3] |
| | d) | List various categories of risks. | [2] |
| | e) | What is a status report in the context of project planning? | [2] |
| | f) | What does ISO 9016 reflect? | [2] |

## PART–B*(4x14 = 56 Marks)*

| | | | |
|---|---|---|---|
| 2. | a) | Explain the goals of software project management. | [7] |
| | b) | Discuss the procedure to estimate the effort of each project activity. | [7] |
| 3. | a) | Discuss the pros and cons of the waterfall model. | [7] |
| | b) | What are the primary objectives of the inception and elaboration phases? | [7] |
| 4. | a) | Discuss the essential features of Albrecht's function point analysis. | [7] |
| | b) | Is publishing the resource schedule is necessary for software effort estimation? Explain. | [7] |
| 5. | a) | Explain Boehm's risk engineering task breakdown in detail. | [7] |
| | b) | What is the procedure to identify resource requirements? | [7] |
| 6. | a) | Explain various steps involved in creating a framework for monitoring & controlling the progress of a project. | [7] |
| | b) | Discuss the critical path finding in resource scheduling. | [7] |
| 7. | a) | Summarize various procedural approaches to Quality Management. | [7] |
| | b) | Discuss the statistical process control capability maturity model. | [7] |

Code No:**R164105E** **R16** **Set No. 2**

**IV B.Tech I Semester Regular/Supplementary Examinations, March - 2021**

# SOFTWARE PROJECT MANAGEMENT

**(Common to Computer Science and Engineering and Information Technology)**

**Time: 3 hours** **Max. Marks: 70**

***Question paper consists of Part-A and Part-B***
***Answer ALL sub questions from Part-A***
***Answer any FOUR questions from Part-B***
*********

## PART–A *(14 Marks)*

1. a) Write the differences between software projects and other types of projects. [2]
   b) What is meant by late risk resolution? [3]
   c) What are the factors that can affect the accuracy and efficacy of effort estimation techniques? [3]
   d) Which risks are concerned with respect to project schedule? [2]
   e) What is the need of performing earned value analysis? [2]
   f) How do you measure the quality of software project? [2]

## PART–B *(4x14 = 56 Marks)*

2. a) Discuss various activities of software project management in detail. [7]
   b) Explain the procedure to identify activity risks. [7]

3. a) Explain the progress profile of a conventional software project with an example graph. [7]
   b) What are the modern process approaches for solving conventional problems? [7]

4. a) Is estimating by analogy is needed in software effort estimation? Explain. [7]
   b) Discuss the pros and cons of various Network planning models. [7]

5. a) Discuss the features of Amanda's risk exposure assessment. [7]
   b) Discuss various features of the Monte Carlo approach in detail. [7]

6. a) Discuss the challenges in defect tracking. [7]
   b) Why the cost schedule vital for a good software project? [7]

7. a) Explain various quantitative approaches to Quality Management. [7]
   b) Demonstrate the importance of Quality Process Planning. [7]

Code No:**R164105E** **R16** **Set No. 3**

**IV B.Tech I Semester Regular/Supplementary Examinations, March - 2021**

# SOFTWARE PROJECT MANAGEMENT

**(Common to Computer Science & Engineering and Information Technology)**

**Time: 3 hours** **Max. Marks: 70**

***Question paper consists of Part-A and Part-B***
***Answer ALL sub questions from Part-A***
***Answer any FOUR questions from Part-B***
*********

## PART–A *(14 Marks)*

1. a) What are the problems with software projects? [2]
   b) Write the purpose of the deployment set. [3]
   c) What is the purpose of Source Lines of Code (**SLOC**)? [3]
   d) List three significant categories of risks. [2]
   e) What is the purpose of milestone analysis? [2]
   f) Define software quality. [2]

## PART–B *(4x14 = 56 Marks)*

2. a) Explain the ways of categorizing various software projects. [7]
   b) Discuss various objectives of software project management. Explain how these objectives can be achieved. [7]

3. a) Are Requirements driven functional decomposition is vital for a software project? Explain. [7]
   b) What are the top five principles of a modern process? Explain. [7]

4. a) Discuss various problems with over and underestimates in software effort estimation. [7]
   b) Discuss various features of the COCOMO model. [7]

5. a) Explain the five strategies of risk reduction in detail. [7]
   b) Discuss the advantages and disadvantages of PERT charts. [7]

6. a) Discuss the importance of Earned value Analysis and Defect Tracking in detail. [7]
   b) Scheduling resources can create various critical paths. Justify the validity of the statement. [7]

7. a) Explain the need forQuantitative Quality Management Planning. [7]
   b) Discuss the steps involved in Defect Prevention Planning. [7]

Code No:**R164105E** **R16** **Set No. 4**

**IV B.Tech I Semester Regular/Supplementary Examinations, March - 2021**

# SOFTWARE PROJECT MANAGEMENT

**(Common to Computer Science and Engineering and Information Technology)**

**Time: 3 hours** **Max. Marks: 70**

***Question paper consists of Part-A and Part-B***
***Answer ALL sub questions from Part-A***
***Answer any FOUR questions from Part-B***
*****

## PART–A *(14 Marks)*

1. a) What is the role of stakeholders in software project management? [2]
   b) Define universal function point. [3]
   c) How do you decide number of people required for a software project? [3]
   d) What is the purpose of risk projection? [2]
   e) Why is defect tracking vital for project monitoring and control? [2]
   f) Write any three steps to enhance software quality. [2]

## PART–B *(4x14 = 56 Marks)*

2. a) Explain various challenges of software projects with examples. [7]
   b) Discuss the procedure to identify the project scope and objectives. [7]

3. a) Discuss various trends in improving software economics. [7]
   b) What are the general quality improvements with modern process models? [7]

4. a) Discuss the need for software effort estimation techniques. [7]
   b) Discuss the features of critical path analysis. [7]

5. a) How do you use PERT for evaluating the effects of uncertainty? [7]
   b) Discuss various factors taken into account while allocating individuals to tasks. [7]

6. a) Discuss various Project Monitoring & Control strategies available with examples. [7]
   b) Discuss the issues involved in Earned value analysis. [7]

7. a) Explain the need to set the Quality Goal. [7]
   b) Discuss various features involved in the Quality Plan of the ACIC Project. [7]