# SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
## (AUTONOMOUS)
### B.Tech IV Year I Semester Regular Examinations February-2024
### PROJECT PLANNING AND CONTROL
(Open Elective – IV)

**Time: 3 Hours**      **Max. Marks: 60**

(Answer all Five Units **5 x 12 = 60** Marks)

### UNIT-I

| | | | | | |
|---|---|---|---|---|---|
| 1 | a | Explain briefly about development of a network | CO1 | L2 | 6M |
| | b | Explain in brief the difference between PERT AND CPM networks. | CO1 | L2 | 6M |

**OR**

| | | | | | |
|---|---|---|---|---|---|
| 2 | a | What is a bar chart? Write down steps for the construction of a bar chart with sketch. | CO1 | L1 | 6M |
| | b | Write down various Limitations to construct a bar chart. | CO1 | L1 | 6M |

### UNIT-II

| | | | | | |
|---|---|---|---|---|---|
| 3 | a | Define Event with examples? Explain briefly about properties and representation of an Event. | CO2 | L2 | 6M |
| | b | Explain Briefly about specification of an Event | CO2 | L2 | 6M |

**OR**

| | | | | | |
|---|---|---|---|---|---|
| 4 | a | Write about breakdown structure and hierarchies. | CO2 | L1 | 4M |
| | b | Write specification, determine plan breakdown and prepare network for the project of 'Casting a concrete beam over verandah opening." | CO2 | L1 | 8M |

### UNIT-III

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|---|---|---|---|---|---|
| 5 | a | Define PERT? What are the uses of PERT. | CO3 | L1 | 6M |
| | b | What are the different types of time estimates involved in PERT? Explain in detail. | CO3 | L1 | 6M |

**OR**

| | | | | | |
|---|---|---|---|---|---|
| 6 | a | What do you understand by the frequency distribution? | CO3 | L1 | 6M |
| | b | How do you determine<br>i) Mean ii) Variance and iii) Standard deviation | CO3 | L1 | 6M |

### UNIT-IV

| | | | | | |
|---|---|---|---|---|---|
| 7 | a | Define CPM and Its Applications. | CO4 | L1 | 6M |
| | b | Explain CPM process with flow chart. | CO4 | L2 | 6M |

**OR**

| | | | | | |
|---|---|---|---|---|---|
| 8 | a | Explain briefly about start and finish times of activities. | CO4 | L2 | 6M |
| | b | What do you understand by critical path? How it is determined? | CO4 | L1 | 6M |

### UNIT-V

| | | | | | |
|---|---|---|---|---|---|
| 9 | a | Explain about Indirect project cost and Direct project cost. | CO4 | L2 | 6M |
| | b | Explain slope of direct cost curve. | CO4 | L2 | 6M |

**OR**

| | | | | | |
|---|---|---|---|---|---|
| 10 | | Explain about Resources usage profiles histograms. | CO4 | L2 | 12M |

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