

Basavarajeswari Group of Institutions

# BALLARI INSTITUTE OF TECHNOLOGY & MANAGEMENT

(Autonomous Institute under Visvesvaraya Technological University, Belagavi)

**2022 SCHEME**

USN 

|  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|

Course Code 

|   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|
| 2 | 2 | C | V | 8 | 1 | 3 |
|---|---|---|---|---|---|---|

Eighth Semester B.E. Degree Examinations, May 2026

## PROJECT MANAGEMENT AND FINANCE

Duration: 3 hrs

Max. Marks: 100

**Note:** 1. Answer any FIVE full questions, choosing ONE full question from each module.  
2. Missing data, if any, may be suitably assumed

| <u>Q. No</u>                                                                                                                                                                                                                         | <u>Question</u>                                                                                                                                                         | <u>Marks</u> | <u>(RBTL:CO:PI)</u> |          |     |     |     |     |     |     |     |                 |   |   |   |   |   |   |   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------|----------|-----|-----|-----|-----|-----|-----|-----|-----------------|---|---|---|---|---|---|---|
| <u>Module-1</u>                                                                                                                                                                                                                      |                                                                                                                                                                         |              |                     |          |     |     |     |     |     |     |     |                 |   |   |   |   |   |   |   |
| 1.                                                                                                                                                                                                                                   | a. Explain the role and responsibilities of a project manager.                                                                                                          | 10           | (2:1:1.2 :1)        |          |     |     |     |     |     |     |     |                 |   |   |   |   |   |   |   |
|                                                                                                                                                                                                                                      | b. What are preliminary manipulations in a project? Explain the various preliminary activities carried out before the execution of a project.                           | 10           | (2:1:1.2:1)         |          |     |     |     |     |     |     |     |                 |   |   |   |   |   |   |   |
| (OR)                                                                                                                                                                                                                                 |                                                                                                                                                                         |              |                     |          |     |     |     |     |     |     |     |                 |   |   |   |   |   |   |   |
| 2.                                                                                                                                                                                                                                   | a. Define resource allocation and resource levelling. Explain their objectives, and impact on project duration with suitable examples.                                  | 10           | (2:1:2.1:1)         |          |     |     |     |     |     |     |     |                 |   |   |   |   |   |   |   |
|                                                                                                                                                                                                                                      | b. Explain the concept of baseline in project management. Discuss different types of baselines and their importance in project monitoring and control.                  | 10           | (2:1:1.2:1)         |          |     |     |     |     |     |     |     |                 |   |   |   |   |   |   |   |
| <u>Module-2</u>                                                                                                                                                                                                                      |                                                                                                                                                                         |              |                     |          |     |     |     |     |     |     |     |                 |   |   |   |   |   |   |   |
| 3.                                                                                                                                                                                                                                   | a. Explain project planning and time management. Discuss its purpose and importance in successful project execution.                                                    | 10           | (2:2:1.2:1)         |          |     |     |     |     |     |     |     |                 |   |   |   |   |   |   |   |
|                                                                                                                                                                                                                                      | b. Give an introduction to construction safety. Explain the importance of safety management in construction projects.                                                   | 10           | (2:2:1.2:1)         |          |     |     |     |     |     |     |     |                 |   |   |   |   |   |   |   |
| (OR)                                                                                                                                                                                                                                 |                                                                                                                                                                         |              |                     |          |     |     |     |     |     |     |     |                 |   |   |   |   |   |   |   |
| 4.                                                                                                                                                                                                                                   | a. The following table shows activities and the duration in days involved in a project. Calculate the Free float, total float and independent float for the activities. | 10           | (3:2:2.1.3)         |          |     |     |     |     |     |     |     |                 |   |   |   |   |   |   |   |
| <table><tr><td>Activity</td><td>1-2</td><td>1-3</td><td>2-4</td><td>3-4</td><td>3-5</td><td>4-6</td><td>5-6</td></tr><tr><td>Duration (days)</td><td>3</td><td>4</td><td>6</td><td>2</td><td>5</td><td>4</td><td>3</td></tr></table> |                                                                                                                                                                         |              |                     | Activity | 1-2 | 1-3 | 2-4 | 3-4 | 3-5 | 4-6 | 5-6 | Duration (days) | 3 | 4 | 6 | 2 | 5 | 4 | 3 |
| Activity                                                                                                                                                                                                                             | 1-2                                                                                                                                                                     | 1-3          | 2-4                 | 3-4      | 3-5 | 4-6 | 5-6 |     |     |     |     |                 |   |   |   |   |   |   |   |
| Duration (days)                                                                                                                                                                                                                      | 3                                                                                                                                                                       | 4            | 6                   | 2        | 5   | 4   | 3   |     |     |     |     |                 |   |   |   |   |   |   |   |
|                                                                                                                                                                                                                                      | b. Define CPM and PERT, compare both with advantages and limitations.                                                                                                   | 10           | (3:2:2.1.3)         |          |     |     |     |     |     |     |     |                 |   |   |   |   |   |   |   |
| <u>Module-3</u>                                                                                                                                                                                                                      |                                                                                                                                                                         |              |                     |          |     |     |     |     |     |     |     |                 |   |   |   |   |   |   |   |
| 5.                                                                                                                                                                                                                                   | a. Explain project closure reports. Discuss their contents and importance after project completion.                                                                     | 10           | (2:3:1.2.1)         |          |     |     |     |     |     |     |     |                 |   |   |   |   |   |   |   |
|                                                                                                                                                                                                                                      | b. Discuss technical, financial, and operational audits in project management.                                                                                          | 10           | (2:3:1.2.1)         |          |     |     |     |     |     |     |     |                 |   |   |   |   |   |   |   |

**(OR)**

**Note: (RBTL - Revised Bloom's Taxonomy Level: CO - Course Outcome: PI- Performance Indicator)**

