# LABORATORY HANDOUT

CONSTRUCTION PLANNING AND MANAGMENT LAB (CE-612)

CE-6TH SEMESTER

ACADEMIC YEAR (2023-24)

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| Course Code | Course Name | Course Type | Cd | L | T | P | Marks | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Sessional | Final Exam | Total |
| CE-612 | Construction Planning and management Lab | PCC | 1 | 0 | 0 | 2 | 50 | - | 50 |

**COURSE OUTCOMES**

| At the end of the course the student will be able to: | |
|---|---|
| CO1 | Create a Construction project. |
| CO2 | Develop Planning and Scheduling for any building. |
| CO3 | Prepare reports and source sheet. |
| CO4 | Calculate the cost of construction. |
| CO5 | Draw variance graphs of any project. |

**LIST OF EXPERIMENTS**

| S.No. | Title |
|---|---|
| 1 | Creating Projects. |
| 2 | Defining the Calendars for any Created projects. |
| 3 | Defining the Project Breakdown Structures and Adding Activities |
| 4 | Adding the Logic Links Constraints. |
| 5 | Risk Analysis Contingent Time. |
| 6 | Scheduling the Project Formatting the Display–Layouts and Filters. |
| 7 | Printing and Reports. |
| 8 | Planning and Scheduling of a single Room through Primavera. |
| 9 | Planning and Scheduling of a double room through Primavera. |
| 10 | Planning and Scheduling of Single storey building through Primavera. |
| 11 | Planning and Scheduling of Multi storied building through Primavera. |
| 12 | Planning and scheduling of Road Project through Primavera. |
| 13 | Prepare the resource sheet through Primavera. |
| 14 | Assign and level the resource through Primavera. |
| 15 | Preparing different reports available in Primavera. |
| 16 | Plot the variance graphs for the given Project. |

**ADDITIONAL WEB RESOURCES**

| | |
|---|---|
| 1. | VLAB LINK: Construction Planning andmanagement Lab by oracle which gives hands-on experience to the students. https://www.youtube.com/watch?v=U1SXOcvphZg |
| 2. | VLAB LINK: Construction Planning and management Lab by YouTube which gives hands-on experience to the students. https://www.youtube.com/watch?v=U1SXOcvphZg |
| 3. | VLAB LINK: Construction Planning and management Lab by IIT Madras which gives hands-on experience to the students. https://www.youtube.com/watch?v=U1SXOcvphZg |
| 4. | VLAB LINK: Construction Planning and management Lab by IIT Madras which gives hands-on experience to the students. https://www.youtube.com/watch?v=c6GbkT10hZ8 |

**LAB REPORT INSTRUCTIONS**

- Provide specific title of the lab experiment.
- Theory: Provide a concise abstract (typically 100-200 words) that summarizes the purpose, methods, key findings, and significance of the experiment.
- Materials/ Equipment: List all materials, components, and equipment used in the experiment. Include specifications when applicable.
- Software/Simulation Tools:
- Experimental Procedure: Describe the step-by-step procedure for conducting the experiment. Be detailed and clear in your instructions. Include diagrams or schematics to illustrate the setup, connections, and component placement. Explain any variations or adjustments made to the standard procedure.
- Observation & Calculations/Analysis: Detail the data you collected during the experiment. Include descriptions of measurements and any calculations made. Use tables, charts, or graphs to present data clearly. Discuss any trends, patterns, or significant observations. Interpret the data in the context of the experiment's objectives. Ensure that all figures, tables, and equations are correctly labeled.
- Results: Summarize the key findings of the experiment. Present results in a clear and organized manner using tables and graphs. Include units of measurement and labels for data points.
- Conclusion: Provide a concise summary of the experiment's key points and outcomes.

**GRADING AND ASSESSMENT**

- **Continuous Evaluation**: 30 marks
- **Final Demo & Viva**: 10 marks
- **Attendance**: 10 marks
- **Lab Overall Marks**: 50 marks

**COURSE POLICIES**

- **Attendance**: Minimum 75% attendance is mandatory to appear in the final examination of the course.
- **Late Submissions**: Manuals and projects must be submitted by the specified timelines.

**FACULTY INFORMATION**

- **Office Hours**

Monday (12:05 PM - 12:55 PM)

Friday (12:05 PM - 12:55 PM)

- **Contact Information**
  Iliyas.civ@mietjammu.in

**RUBRICS FOR LAB CONTINUOUS EVALUATION**

| **Parameters** | **Performance** | | | |
|---|---|---|---|---|
| | **Low** | **Medium** | **High** | **Marks** |
| **Execution of the Experiment** | Student was not able to setup and conduct the Experiment completely | Student was able to setup and conduct the experiment but measurement/results/observations were not correct | Students was able to set and conduct the experiment and the measurement/results/observations were not correct | 10 |
| | 0-2 Marks | 3-6 Marks | 7-10 Marks | |
| **Record** | Student was not able to describe the detailed procedure and could not record the measurement. | Student was able to describe the detailed procedure partially or with some inaccuracy. | Student was able to describe the detailed procedure accurately and record all measurements correctly. | 10 |
| | 0-2 Marks | 3-6 Marks | 7-10 Marks | |
| **Viva Voice** | Students could not demonstrate sufficient knowledge of foundation, functional or applied aspects related to the experiment during viva. | Students demonstrated sufficient knowledge of foundation, functional or applied aspects related to the experiment during viva. | Students demonstrate strong knowledge of foundation, functional or applied aspects related to the experiment during viva | 10 |
| | **0-2 Marks** | **3-6 Marks** | **7-10 Marks** | |
| **Total Marks** | | | | **30** |