**Evaluation scheme for laboratory/tutorial continuous assessment (LAB CA)**

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| **Programme & Department** | B Tech (First Year) | **Year** | | FY |
| **Academic year** | 2023-24 | **Course Code and Name** | | Engineering Physics  216U06C102 |
| **Semester** | I |
| **Faculty In-charge(s)** | Dr. Suren Patwardhan | | Shrikant Chawade | |
| Dr. Santosh Mani | | Dr. Archana Sharma | |
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| **Distribution of LAB CA marks** | **The student will be evaluated based on following tasks for lab. CA. If any of the tasks given is not completed / submitted / shown / evaluated, then the marks assigned for that task will be ZERO.**   |  |  |  |  | | --- | --- | --- | --- | | **Task** | **Description** | **Tentative schedule (week/month)** | **Marks** | | Component 1 | Experiments performed, written record of experiments (journal) and viva-voce | Every week starting from first/second week of term | Each experiment will be evaluated out of 25 marks and average of all experiment will be converted to 30 marks | | Component 2 | 2/3 Quizzes will be conducted based on experiments | Third week of October 2023 | 20 | |

**Calculation of final LAB CA marks (out of 50):**

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| **Laboratory Experiments** | **Quiz** |
| Maximum marks 30 | Maximum marks 20 |
| **Final LAB CA Marks (Out of 50) = Laboratory experiments (out of 30) + quiz (out of 20)** | |

**Date: 21/08/2023 Name & signature of Faculty in-charge(s):**

**Dr. S. S. Patwardhan**

**Dr S. A. Mani**

**S. R. Chawade**

**Dr. A. Sharma**

**Evaluation Rubrics for Component 1:**

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| **Criterion/**  **Performance levels** | **High** | **Moderate** | **Low** |
| **Performing experiment & interpretation**  **(5 M)** | Followed correct procedure of experiment, recorded readings in correct range. Sharing observation table or graph during the session (4-5) | Followed correct procedure, some readings were found to be in correct range. Few readings shared during the session (2-3) | Followed correct procedure of experiment but recorded readings are not in correct range. No sharing of the observation table or graph (0-1) |
| Calculations & Results (5 Marks) | All-important trends and data comparisons have been interpreted correctly and discussed; good understanding of results is conveyed.(4-5) | Almost all of the results have been correctly interpreted and discussed; only minor improvements are needed. (2-3) | Incomplete or incorrect interpretation of trends and comparison of data indicating a lack of understanding of results. (0-1) |
| Contents of the Journal (5 Marks) | Proportionate and properly labelled diagram, sufficient observations, suitable graph with proper scale, results mentioned in the conclusion with proper units (4-5) | Proper diagram, correct observations, graph and results not mentioned properly (2-3) | Poor diagram, no proper scaling in the graph, no units in the conclusion (0-1) |
| Write up submission  (5 marks) | Submission in the next week after performance of experiment (4-5) | Submission after next immediate turn but within a month (2-3) | Submission after a month (0) |
| Viva-Voce (5 Marks) | Answered all questions (4-5) | Answered most of the questions (3) | Not answered properly (0-2) |
| Attendance & Regularity (5 marks) | Experiment performed in the regular turn & submitted on time (5) | Experiment performed in extra schedule but submitted on time.(3-4) | No experiments performed /no submissions or late submissions. (0-2) |

**Date: 21/08/23 Name & signature of Faculty in-charge(s):**

**Dr. S. S. Patwardhan, Dr S. A. Mani, S. R. Chawade, Dr. A. Sharma**