# Geethanjali College of Engineering & Technology

(An UGC Autonomous Institution)

**Department of Electronics and Communication Engineering**

**For the evaluation of a laboratory course the following guidelines shall be followed:**

For laboratory course, there shall be a Continuous Internal Evaluation (CIE) during the semester for 30 marks, and Semester End Examination (SEE) for 70 marks.

Out of the 30 marks for CIE, day-to-day work in the laboratory / practical shall be evaluated for 15 marks; and for the remaining 15 marks - two internal practical tests (each of 15 marks) shall be conducted. The average of these two tests is taken into account.

**Evaluation of internal practical test for Hardware based lab course - CIE - 15 Marks**

| Parameter | Rubric | Marks Allocated |
|---|---|---|
| Circuit diagram | Ability to draw the required circuit diagram for conducting the given experiment | 5 |
| Procedure | Ability to write the procedural steps involved in conduct of the given experiment | |
| Conduct of Experiment | Ability to conduct experiment as an individual by giving appropriate connections and the required input(s) | 5 |
| Results and Presentation | Ability to record the experimental data, analyze the accuracy of the data (results) and effective presentation of the results | |
| Viva-voce | Ability to explain the theoretical concepts related to the experiment and/or related to other experiments of the laboratory course | 5 |

**Evaluation of internal practical test for Software based lab course - CIE - 15 Marks**

| Parameter | Rubric | Marks Allocated |
|---|---|---|
| Building Logic | Ability to apply related theoretical concepts to build necessary logic for solving of the given problem. | 5 |
| Program | Ability to write the program with proper syntax and debug (finding and fixing errors if any) | 5 |
| Results and Presentation | Ability to execute the program, analyze the accuracy of the results and effective presentation of the results | |
| Viva-voce | Ability to explain the theoretical concepts related to the experiment and/or related to other experiments of the laboratory course | 5 |

**Day to Day Evaluation - CIE - 15 Marks**

| Parameter | Rubric | Marks Allocated |
|---|---|---|
| Preparation | Ability to explain the procedural steps involved in conduct of the given experiment | 5 |
| Involvement | Ability to involve as a member of the team in conduct of an experiment, discuss and analyze the results | 5 |
| Record | Ability to make an effective report based on the experiment carried out on a regular basis | 5 |

**Rubrics for the evaluation of a Hardware based laboratory – AR 20 Regulations - SEE - 70 Marks**

| Parameter | Rubric | Marks Allocated |
|---|---|---|
| Circuit diagram | Ability to draw the required circuit diagram for conducting the given experiment | 10 |
| Procedure | Ability to write the procedural steps involved in conduct of the given experiment | 10 |
| Conduct of Experiment | Ability to conduct experiment as an individual by giving appropriate connections and the required input(s) | 15 |
| Results and Presentation | Ability to record the experimental data, analyze the accuracy of the data (results) and effective presentation of the results | 15 |
| Presentation on another experiment in the same laboratory course | Ability to present the procedural steps involved in conduct of another experiment given; right from drawing the circuit diagram to presentation of the expected results. | 10 |
| Viva-voce | Ability to explain the theoretical concepts related to the experiment and/or related to other experiments of the laboratory course | 10 |

**Rubrics for the evaluation of a Software based laboratory – AR 20 Regulations - SEE - 70 Marks**

| Parameter | Rubric | Marks Allocated |
|---|---|---|
| Building Logic | Ability to apply related theoretical concepts to build necessary logic for solving of the given problem. | 10 |
| Write Program | Ability to write the program with proper syntax and debug (finding and fixing errors if any) | 20 |
| Results and Presentation | Ability to execute the program, analyze the accuracy of the results and effective presentation of the results | 20 |
| Presentation on another experiment in the same laboratory course | Ability to write the program with proper syntax, debug and present the steps involved in executing the program related to another experiment given. | 10 |

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|---|---|---|
| Viva-voce | Ability to explain the theoretical concepts related to the experiment and/or related to other experiments of the laboratory course | 10 |