**ASSESSMENT RUBRICS LAB # 12**

**Complex Circuit Analysis using MATLAB**

| **LAB REPORT ASSESSMENT** | | | | |
| --- | --- | --- | --- | --- |
| **Criteria** | **Excellent** | **Average** | **Nill** | **Marks Obtained** |
| 1. **Objectives of Lab** | All objectives of lab are properly covered  [Marks 0.5] | Objectives of lab are partially covered  [Marks 0.25] | Objectives of lab are not shown  [Marks 0] |  |
| 1. **Complex Circuit**   **(Theory, Circuit Diagram )** | Brief introduction about Complex Circuit (How to apply KVL equations in each mesh) is shown along with properly labeled circuit diagram  [Marks 2] | Some of the points about Mesh Current Analysis are missing and circuit diagram is not properly labeled  [Marks 0.5] | Introduction about complex circuit and circuit diagram is not shown  [Marks 0] |  |
| 1. **MATLAB** | Brief introduction of MATLAB  [Marks 1] | Brief introduction of MATLAB  Is not shown  [Marks 0] | |  |
| 1. **MATLAB code** | All experimental code of MATLAB is shown  [Marks 3] | Some of the codes are missing  [Marks 1.5] | Full codes are missing  [Marks 0] |  |
| 1. **Comparisons of MATLAB and PSpice** | Results are verified  [Marks 2.5] | Results are not verified  [Marks 0] | |  |
| 1. **Conclusion** | Conclusion about experiment is shown  [Marks 1] | Conclusion about experiment is partially shown  [Marks 0.5] | Conclusion about experiment is not shown  [Marks 0] |  |
| Total Marks Obtained:\_\_\_\_\_\_\_\_\_\_  Instructor Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | |