EECS 562 Lab Report Format

Following is a report template for all the projects during the semester. For example if a lab project has 4 sub experiments, following is the format to follow:

✓ **Cover page:** Mention title of the project, student name and KUID.
✓ **Project objective:** Overall objective of the project.
✓ **Experiment 1:**
  1. **Objective:**
     - Objective of sub experiment.
  2. **Implementation:**
     - This section will consist of a system-level block diagram.
     - Explain all the interconnections in the setup.
     - If only part of a module is used, please indicate which part.
     - Relevant settings of the TIMS module should be communicated.
     - Do not click a photograph of the experiment setup and crop it as block diagram.
  3. **Data:**
     - This will consist of data you record during the course of the experiment.
     - Screen shots should have figure numbers and appropriate captions beneath the figures.
     - Tables should have table numbers and captions above the table.
     - Attach a scanned copy of your lab notebook for this sub experiment.
  4. **Results:**
     - Show the results gathered from the experiment.
     - All calculations must be explain in detail.
     - Writing only “it worked” will not fetch you points because it does not show complete understanding of the experiment.
  5. **Discussion:**
     - This is the most very important section of the report.
     - Any errors encountered during the experiment must be mentioned. Give appropriate reason for those errors.
     - Provide good evaluation of your results, compare practical results with theoretical results, and compare current results to previous results/experiments.
     - In this section you should also answer any questions posed to you in the lab procedure.
  6. **Conclusion:**
     - The experiment should be summarized, any further conclusions drawn from this experiment and possible future work should be explained.
     - Writing only “At the end of this lab I understood XYZ” will not fetch you points because it does not show complete understanding of the experiment.
✓ **Experiment 2:**
  1. **Objective:**
     - Objective of sub experiment.
  2. **Implementation:**
     - This section will consist of a system-level block diagram.
     - Explain all the interconnections in the setup.
     - If only part of a module is used, please indicate which part.
     - Relevant settings of the TIMS module should be communicated.
     - Do not click a photograph of the experiment setup and crop it as block diagram.
  3. **Data:**
     - This will consist of data you record during the course of the experiment.
     - Screen shots should have figure numbers and appropriate captions beneath the figures.
     - Tables should have table numbers and captions above the table.
     - Attach a scanned copy of your lab notebook for this sub experiment.
  4. **Results:**
Show the results gathered from the experiment.
All calculations must be explain in detail.
Writing only “it worked” will not fetch you points because it does not show complete understanding of the experiment.

5. Discussion:
- This is the most very important section of the report.
- Any errors encountered during the experiment must be mentioned. Give appropriate reason for those errors.
- Provide good evaluation of your results, compare practical results with theoretical results, and compare current results to previous results/experiments.
- In this section you should also answer any questions posed to you in the lab procedure.

6. Conclusion:
The experiment should be summarized, any further conclusions drawn from this experiment and possible future work should be explained.
Writing only “At the end of this lab I understood XYZ” will not fetch you points because it does not show complete understanding of the experiment.

✓ Experiment 3:

1. Objective:
   - Objective of sub experiment.

2. Implementation:
   - This section will consist of a system-level block diagram.
   - Explain all the interconnections in the setup.
   - If only part of a module is used, please indicate which part.
   - Relevant settings of the TIMS module should be communicated.
   - Do not click a photograph of experiment setup and crop it as block diagram.

3. Data:
   - This will consist of data you record during the course of the experiment.
   - Screen shots should have figure numbers and appropriate captions beneath the figures.
   - Tables should have table numbers and captions above the table.
   - Attach a scanned copy of your lab notebook for this sub experiment.

4. Results:
   - Show the results gathered from the experiment.
   - All calculations must be explain in detail.
   - Writing only “it worked” will not fetch you points because it does not show complete understanding of the experiment.

5. Discussion:
   - This is the most very important section of the report.
   - Any errors encountered during the experiment must be mentioned. Give appropriate reason for those errors.
   - Provide good evaluation of your results, compare practical results with theoretical results, and compare current results to previous results/experiments.
   - In this section you should also answer any questions posed to you in the lab procedure.

6. Conclusion:
The experiment should be summarized, any further conclusions drawn from this experiment and possible future work should be explained.
Writing only “At the end of this lab I understood XYZ” will not fetch you points because it does not show complete understanding of the experiment.

✓ Experiment 4:

1. Objective:
   - Objective of sub experiment.

2. Implementation:
   - This section will consist of a system-level block diagram.
• Explain all the interconnections in the setup.
• If only part of a module is used, please indicate which part.
• Relevant settings of the TIMS module should be communicated.
• Do not click a photograph of experiment setup and crop it as block diagram.

3. **Data:**
   • This will consist of data you record during the course of the experiment.
   • Screen shots should have figure numbers and appropriate captions beneath the figures.
   • Tables should have table numbers and captions above the table.
   • Attach a scanned copy of your lab notebook for this sub experiment.

4. **Results:**
   • Show the results gathered from the experiment.
   • All calculations must be explain in detail.
   • Writing only “it worked” will not fetch you points because it does not show complete understanding of the experiment.

5. **Discussion:**
   • This is the most very important section of the report.
   • Any errors encountered during the experiment must be mentioned. Give appropriate reason for those errors.
   • Provide good evaluation of your results, compare practical results with theoretical results, and compare current results to previous results/experiments.
   • In this section you should also answer any questions posed to you in the lab procedure.

6. **Conclusion:**
   • The experiment should be summarized, any further conclusions drawn from this experiment and possible future work should be explained.
   • Writing only “At the end of this lab I understood XYZ” will not fetch you points because it does not show complete understanding of the experiment.

✓ **Project Conclusion:**
   • Summarize the entire project, any conclusions drawn from sub experiments and possible future work should be explained.
   • Writing only “At the end of this lab I understood XYZ” will not fetch you points because it does not show complete understanding of the experiment.

**Note:**
1. Students must work independently on their reports. In case of plagiarism of reports severe steps with be taken.
2. Report is due at the beginning of each project. Late report submission will fetch a zero point.
3. Every report must be well written, concise and complete to fetch complete points.
4. Report must be typed completely.
5. Failure to follow above mentioned guidelines can lead to loss of points. Partially completed reports will earn partial grades accordingly.