

## ECE 544 Project Final Report Guidelines

Fall 2022

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Each project will result in a detailed written report. The deadline for submitting the final report in soft copy via email is **November 30 (Wednesday)**. The report should be organized as you would organize a technical paper. It should be written in IEEE Proceedings Manuscripts style: two columns, single-spaced. You may find a template file at URL: <https://www.ieee.org/conferences/publishing/templates.html>.

The entire report should be no more than **five** pages, including all figures, equations, references, tables, and text. The project report should be neat, readable, and self-contained. Any class member should be able to understand your report, and benefit from the results you obtain. Therefore, you should include adequate references and background materials. Also, using figures, diagrams, and tables may be a better way to enhance the readers' comprehension of your project. Each figure, graph, and table must be directly referenced in the text.

Note that due to the space limitation, it may not be possible to cover every detail of your project in the report. Try to be as informative as you can, and include more details in your oral presentation. Also, plagiarism is using the materials (ideas/words) of another as one's own and without crediting the source. This behavior is prohibited. **So, please take the time to properly cite materials written by someone else - include references.** Your report will be checked by **SafeAssign**, a plagiarism prevention tool. If you have any question about this, ask the instructor or refer to Student Handbook: <https://www.umassd.edu/studentaffairs/studenthandbook/academic-regulations-and-procedures/>

Please name your project report using the format of **Team#-ECE544-Report** (e.g., **Team1-ECE544-Report.pdf**). The following format is suggested for writing the report. While you do not have to follow this outline exactly, all of these elements should be included in your final report.

1. A descriptive title, your name, course number, and term under the title.
2. A 200-300 word *abstract* clearly summarizing the problem you investigated, your methodology, any important problems or difficulties encountered in the project, and a summary of your main results and conclusions.
3. An *introduction* precisely stating the problem and explaining why what you have done is important and interesting. It also should include the background necessary to understand the report.
4. A summary of *previous research* in this area, along with an explanation that places your project in the context of what has been done before. You must supply citations within the paper to the previous work.
5. A *proposed work* section explaining and interpreting your results based on your investigation, implementation, simulation, or experimentation.
6. A *conclusion* summarizing what you have learned and what it means in a broader context.
7. Recommendations for future work and unsolved problems (optional)
8. References: cite all references listed in this section in your discussions.
9. Appendices: include any supporting materials (like codes) as needed.