

# Template for DP1/DP2 Project Reports

## Use the IEEE Transactions Paper Format

Names of Authors

**Abstract**—Enter an abstract of the work contained in this report. The abstract is limited to 150 words and cannot contain equations, figures, tables, or references. It should concisely state what was done, how it was done, principal results, and their significance.

**Index Terms**—Give a few keywords about your work.

### I. INTRODUCTION (COMPULSORY)

THE introduction is used for the following material: (1) description of the importance of the topic; (2) a review of what is currently done in the industry. Describe the appropriate standards; (3) a review of what has been done by others (books, papers, webpages, etc.). The idea of this is to situate your work in reference to others; (4) objectives and justification of the work including design constraints. Be very clear about the technical scopes and limitations (not limitations on availability of equipment, software, time, etc.); (5) brief description of the most important issues solved; (6) description on how your work was done, your findings and their importance. The expected length is from one to two columns of this format. Use font Times New Roman size 10.

### II. ANALYSIS OF APPLICABLE STANDARDS (COMPULSORY)

This section should be used to describe the standards used in industry that are applicable to your design project. For most areas there are ANSI (American National Standards Institute) Standards (<https://webstore.ansi.org/>). In many areas of electrical and computer engineering there are also IEEE Standards and even ANSI/IEEE standards.

### III. THEORETICAL CONSIDERATIONS (OPTIONAL)

This section should be short and only describe the theoretical background needed to understand your objectives and conclusions.

Wrongly, this is the section where students traditionally put a lot of effort. They copy substantial material from books, papers, webpages and reports from other students. This section should not be longer than one column of the report. The greatest effort should go into the actual design work, the conclusions and recommendations.

All the information that you take from a standard, book, or paper, should be properly acknowledged using a (sequential) reference number and an entry in the Reference section. For example: most of this template can be found in [1].

### IV. WORK (GIVE AN APPROPRIATE TITLE)

In this section is where the work is described. You need to use as many graphs, tables, diagrams, and figures as needed to clearly make your points. You can add sections and subsections as needed to organize your report. The expected length for this section is from 1 to 3 pages, but there is some flexibility if you need more.

Note that frequently students do not properly format the figures. All figures should be very clear, the fonts readable and all axes should be labeled and include units. Almost always the letters are too small to be read. The scales are not properly selected and the axes are not labeled.

In this section, you should also produce a detailed analysis of your work. It is your responsibility to interpret the results so that the reader can see what you see from the results.

### V. CONCLUSIONS (COMPULSORY)

This is the most important section of the report. Here you should state if your work fulfilled the objectives or not. If it did, you need to discuss how it is demonstrated in this report that this actually happened. If it did not, then you need to say the reasons why and what should be done to fulfill with the objectives (not excuses, the discussion should be technical).

### VI. RECOMMENDATIONS (COMPULSORY)

This is a compulsory section where you describe the recommended actions resulting from your work. You need to state clearly what you would recommend to: (1) save money; (2) enhance production; (3) how would you make money from this, etc. You should also mention what work needs to be done in continuation.

### VII. REFERENCES (COMPULSORY)

References are important to the reader; therefore, each citation must be complete and correct. References should be readily available publications. List only one reference per reference number. Give all authors' names; do not use *et al.* Samples of the correct formats for various types of references are given in the IEEE template. An example would be:

- [1] J. W. Hagge and L. L. Grigsby, "IEEE Sample, Preparation of a Formatted Technical Work for an IEEE Power & Energy Society Transactions Publication", Available at (2012): <http://www.ieee-pes.org/templates-and-sample-of-pes-technical-papers>.
- [2] ...