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**SENIOR PROJECTS****FINAL REPORT**

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| **DATE:** | .../.../... |
| **SUPERVISOR:** |  |
| **TEAM:** |  |
| **TEAM MEMBERS:** |
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IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR ME 407 INNOVATIVE ENGINEERING DESIGN AND IMPLEMENTATION |

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# INTRODUCTION

The final report should be composed of 5 chapters; “Introduction”, “Detailed Design”, and “Conclusion and Discussion”. Each chapter should start in a new page separated from the previous sections by a page break (Layout > Breaks > Page Break in MS Word). Content of each chapter is briefly explained in this document.

Note that the styles for the chapter headings (Heading 1), sections headings (Heading 2) and the body (Body) are all defined in “Styles” menu of MS Word. Please do not modify these and stick to these styles! Also do not modify the headers and footers.

Students are encouraged to use appendices where available expecially for bulky figures and/or tables. For instance it is advised to leave the engineering drawing to the appendix.

There is no page limit for the final report. However, a concise and neat report is always appreciable.

General information about the work done and the methodology should be given in “Introduction” section. In addition, problem definition, design specifications, state-of-the-art review, and conceptual design should be given here in separate sections as indicated below.

## Problem Definition and Design Specifications

Problem should be clearly stated in all aspects here. Design specificiations should also be listed and discussed in this section.

## Literature Review

Review of the patents, novel technologies, commercially available similar products should be presented and discussed here. Information available in textbooks and scientific articles can also be reviewed here.

## Conceptual Design

Selected conceptual design and its selection procedure (generation and evaluation of the alternative designs) should be clearly presented in this section.

# DETAILED DESIGN

Detailed analysis of the conceptual design and a virtual model representing the resulting detailed design should be presented here. The analysis methods must be clearly explained. This chapter can be divided into sections if needed. An example sectioning is demonstrated below.

## Sub-sytems of the Design

Such a section can be created if the design is composed of multiple sub-systems

## Analysis of the Design

Mathematical model representing the design, analytical or numerical solution of this model can be presented in this section.

## Virtual Model of the Design

A virtual mock up model showing all details of the design can be presented in this section.

# CONCLUSION AND DISCUSSION

Students are expected to summarize the results of work done and discuss the possible improvements on the design in this chapter. Also discuss the feasibility of the design (considering manufacturability if a physical prototype is the expected outcome). This chapter can be divided into sections if needed.

# REFERENCES

Documents cited within the report should be listed here. Please use IEEE citation standards throughout the report.

# APPENDIX A

# DESCRIPTION OF APPENDICES

Appendices should be grouped and itemized as Appendix A, Appendix B, and so on. A descriptive title should be written under the heading as demonstrated above as “DESCRIPTION OF APPENDICES”. Each appendix should be separated by a page break.