**A.2 Research Track Final Report Template**

The following is the final 496/497 report for the research track.

\* These sections should be modified based on the phase of the graduation project.

\*\* These sections are to be included in the final report of CSC497

 **Project Title**

**Abstract\*** The abstract should complement your proposal abstract and might include any additions that do not contradict the new proposal abstract.

**1. Introduction**

The introduction chapter is a very important for introducing the topic of your project. A great introduction gets the readers’ attention and keeps them excited about reading your project report. Generally, the introduction must contains the following:

* Problem description
* Introduction of the general topic that the project falls within.
* Motivation showing why readers should be interested on your topic.
* Introduction of your research/product, where you give a brief description of your research question (thesis) or what your product is trying to solve.
* Brief description of your solution: While it is not critical at this stage to explicitly state your entire proposed approach, it might help to roughly describe your solution.
* Finally, an organization paragraph that shows the remainder layout of the report.

**2. Background**

This chapter should include the definition and the notations you will be using later in your report. It should introduce the user to any concepts, terms, algorithms, or tools you will be using in your project. This is where you should lay down any definitions, acronyms that will show up in your report.

**3. Literature Review**

This is the main chapter in the midterm report. In this chapter, you should show familiarity with the literature. By exposing the reader to the relevant published work. The literature review should be comprehensive for the problem you are writing about. The purpose of this chapter is to put your work in context with others, and benefit from their experience. You may mention any changes that you have made to your original solution after you have conducted the literature review. At least 3 sources for software projects and 5 for the research track) should be reviewed thoroughly.

**4. Experimental Design (CSC496)\***

In CSC496, this chapter shows the datasets, methodology and the experimental design that will be used to test the research hypothesis. You should have at leave a subsection detailing each of these components. Though, it is not always possible to conduct preliminary experiments at early stages of the project, the chapter should include preliminary results when possible. The examiner will decide whether preliminary results were necessary at this stage.

In CSC497, you should remove the preliminary results and you may edit any information that has been modified based on your conducted research.

**5. Results\*\***

This chapter should be added in CSC497. The first section here should detail how the validation approach was conducted. For example if you use sensitivity to show results, you should provide the formulas used and how you used these formulas in your particular case.

The second part is to should your results and compare them to other approaches, especialy the ones you have mentioned in the literature review. If comparison is not possible, you should describe the reasons for that. The examiner will decide whether your arguments are valid or not.

**5. Discussion\***

For CSC496 final results, you should discuss what you have learned from the experimental results and how you plan conduct the rest of your research. A detailed plan of action is required here, such as any further data to be collected, algorithms to be designed etc..

In CSC497, you should rewrite the entire chapter to discuss your final findings/output of the project and how they are used to prove or disapprove your hypothesis. The chapter should discuss all the results as well as the conclusion you have drawn from your results.

**7. Conclusion\***

Clear, insightful statement that summarizes your work. This chapter summarizes your project. You should mention the major findings/output of your project. This should take the place of the Summary section from the midterm report in CSC496.

In CSC497, you may add any future directions you foresee for the research you have conducted.

**References** A bibliography of all cited works and sources you have used in your report.