Instructions for Preparing Reports

The reports must include the following components in the same order:

- **Title page:** Include the title of the project, your name and affiliation, course title, and date, on a separate (first) page.

- **Abstract** (one paragraph, 200 words or less): Describe the problem very briefly; highlight the main results and conclusions.

- **Introduction:** Give an overview of the problem and mention other similar work from the literature.

- **Problem Formulation:** Describe the problem carefully and provide schematics as necessary. This part should include the governing equations and their analytical solution, if one exists.

- **Numerical Formulation:** Provide a concise description of the numerical formulation and give the final form of the equations used in the code. Explain how you input the grid information and set up the boundary conditions for your specific problem.

- **Results and Discussions:** *This is the most important part of your report.* Present your results on all items asked in the project and discuss them. Use subsection titles (e.g. Resolution Study, or Effect of Boundary Condition) for more clarity. Include various graphs and/or tables based on your results. Number all the graphs/tables (as Figure 1, Figure 2, ..., or Table 1, Table 2, ...) and refer to them in your discussions accordingly. Provide captions for each figure or table that you use in your report. You may place the tables and figures at the end of your report or embed them in the body of the text.

- **Conclusions:** Write three paragraphs. In the first, briefly describe the problem that you have solved and the method(s) that you have used. In the second paragraph, give a concise list of your main observations from the results. In the third, give recommendations for future extension and/or improvements.

- **References:** Number all the references that you have used in the report and list them here.

- **Tables:** If you decide to include the tables at the end, place them here in the order that you have numbered them. Don't forget captions.

- **Figures:** If you decide to include the figures at the end, place them here in the order that you have numbered them. Again, don't forget captions.

NUMBER ALL PAGES.