

## Instructions for Writing Essays

- You must write the essay on your own without any discussion with or any instruction from others. However, you are encouraged to survey relevant research papers and textbooks for writing the essay.
- You are not allowed to describe in the essay any information that can identify your name, your examinee number or affiliation except in the item “Name of Applicant”
- Writing symbols that do not relate to the content of the essay is regarded as cheating.
- The essay should be on A4 paper by using the template provided on the department web page.
- The main body of the essay should not exceed three pages.
- You are prohibited from changing the font size, font family, or margin of the template format.
- Upon necessity, you may use character decorations such as bold faces, italics, and colors.
- To accurately convey the content, you are expected and encouraged to use mathematical expressions, diagrams, and so on. In addition, describe the content by appropriately citing references.
- Any sentence quoted from the literature must be presented as such (e.g., by enclosing it with quotation marks “ ” or by making it italic) with explicit reference to the source.
- Any sentence without proper quotation can be recognized as plagiarism.
- The bibliographic information of each reference mentioned in the essay should be described in List of References, by following the format exemplified below; if it is a journal paper, it should include author names, title, journal name, volume number, and publication year (in A.D.); if it is a book, it should include the author names, title, publisher, and publication year. The references should be ordered and numbered alphabetically by the surnames of the first authors. The reference should be cited in the body of the essay as [1], [2], etc.

### Example of List of References

- [1] D. Clément, A. Kohatsu-Higa and D. Lambertson: A duality approach for the weak approximation of stochastic differential equations. *Annals of Applied Probability*, 16 (2006), pp. 1124–1154.
- [2] T. H. Cormen, C. E. Leiserson, R. L. Rivest and C. Stein: *Introduction to Algorithms*, 3rd ed., MIT Press, Cambridge, MA, 2009.
- [3] G. Strang: *Linear Algebra and Its Applications*, 4th ed., Cengage Learning, 2006.

([2], [3] are examples of books, and [1] is an example of journal papers.)

- List of References should be placed after Subject 2 by compiling all the references cited in Subjects 1 and 2.
- List of References is not counted as the limit of three pages and can be shown in the 4th and subsequent pages.

### Subject 1.

- Although you may write your educational experience here, you are expected to focus on the research topic you want to undertake in the master's program.

### Subject 2.

- For (1), it is not necessary to describe a complete proof, but you should provide a clear

description of how the selected tool is established.

- For (2), you should clearly describe the academic significance on the selected tool.
- For (3), you are expected to describe the relationship between the selected tool and its applications succinctly rather than just listing up applications.