

MTH499 Capstone Mathematics Project

Level: 4

Credit Units: 10 Credit Units

Language: ENGLISH

Presentation Pattern: EVERY SEMESTER

Synopsis:

This project course requires the analysis and synthesis of problems in mathematics and application of the various principles learnt to solve practical problems in an academic manner under the supervision of a project tutor. The project may take any one or a combination of the following forms: feasibility study, computer modeling and analysis, design and construction, testing and experimental investigation. The project thesis is submitted individually and runs over two semesters. MTH499 can only be taken by SUSS invited honours students from January 2011 (beginning honours year in 2011).

Topics:

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Learning Outcome:

- Discuss the capstone project problem to be investigated
- Appraise, evaluate the literature to gather information on the project
- Formulate the specifications of the problem/model/system/software
- Compute solutions
- Test and evaluate the system/model/software/theory
- Draft a report and give an oral presentation
- Formulate a range of mathematical techniques to solve a variety of advanced mathematics problems.
- Create solutions to problems individually and/or as part of a group.
- Evaluate a number of approaches within strict deadlines

Assessment Strategies:

Continuous Assessment Component	Weightage (%)
PROJECT PROPOSAL	10
INTERIM REPORT	10
Sub-Total	20

Examinable Component	Weightage (%)
Q&A	20
Oral Exam	20
Project	40
Sub-Total	80

Weightage Total **100**