

The Hong Kong University of Science and Technology

UG Course Syllabus

Computer Engineering Final Year Thesis in COMP

CPEG 4902

6 credits

Course Description

Each student taking the Research Option of the Computer Engineering program is required to complete an individual thesis before graduation. The student is expected to conduct a research on a topic related to Computer Engineering and/or its application. The thesis is conducted under the supervision of faculty members from the Department of Computer Science and Engineering. Credit load will be spread over the year. Instructor's approval is required for enrollment in the course. For CPEG students only.

Statement of Objectives/Outcomes:

1. Develop original solutions to computer science engineering problems of significant complexity.
2. Utilize prior knowledge, independent research, published information, and original ideas in addressing problems and generating solutions.
3. Critically evaluate different research approaches, and justify the final choice of design through system development, simulation and/or analysis.
4. Use computational and/or mathematical tools to plan, design and validate an approach if needed.
5. Prepare and deliver a well-structured written analysis of the project, as well as an oral defense.
6. Establish relationships and implement practices with advisors and/or local/international researchers that will underpin a high level of performance and encourage continuous improvement.

Assessments:

Grading Items	Faculty Supervisor Weight (60%)	Reader Weight (40%)
Project Proposal Report	5%	5%
Individual Ethics Essay	5% (By Communication Tutor)	N/A
Project Progress Report	20%	15%
Final Project Report	35%	35%
Oral Presentation / Thesis Defense	30%	40%
Monthly Reports (October, November, December/January)	5%	N/A
Poster Session/Video trailer	NA	5%

Required Texts and Materials

No textbook