

Prepared by Dr. Jeff Au Yeung





What is Capstone Project?













Capstone Project (2025 Spring)



COMP 8960SEF – Capstone Project (for MCOMP) (6 credit-unit)

(2025 Spring + 2025 Summer)

 This course aims to provide an opportunity for students to develop a computing solution for a non-trivial problem in an application or technical domain. Students in the course will integrate knowledge and techniques in computing acquired in earlier courses in the programme and manage the project progress until completion.

1171



Learning Outcomes

- Explain the state-of-the-art computing techniques and applications related to his/her project.
- Analyse and propose solutions for computing technology or application problems.
- Implement prototypes of the proposed solutions with suitable methods.
- Utilize appropriate tools for project development.
- Write effective project reports to communicate project findings.





Professionalism

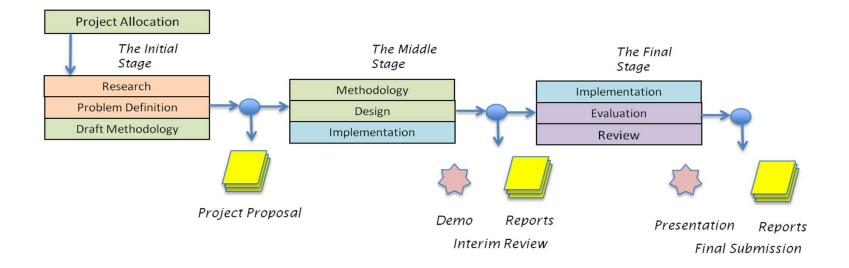
- Bear responsibility
- Respectful, courteous, and considerate
- Competent and dependable
- Integrity



1171



Stages of Capstone Project







Assessment

	Assessment	Weighting	Components
a.	Initial Report (OCAS)	15%	(1) Proposal Presentation (7.5%) (2) Initial Report (Project Proposal) (7.5%)
b.	Interim Review (OCAS)	25%	(1) Interim Report + Demo (10%)** (2) Progress (15%)
c.	Final Report (OES)	60%	(1) Final Report (15%)** (2) Final Presentation + Demo (15%)** (3) Overall Project Performance (30%)

You need to get pass on both OCAS and OES to pass the course

** involved second examiner





Schedule (2025 Spring)

	Activities	Week	Date	Topics
a.	Lectures (Spring Semester)	1 (20)	13 Jan 2025	0- Introduction / 1- Project Type (f2f lecture)
		2 (21)	20 Jan 2025	2- Getting Started in Your Final Year Project (lecture video)
		3 (22)	27 Jan 2025	3- Defining Your Project (lecture video)
		4 (23)	3 Feb 2025	4 – Project Proposal Part 1 (lecture video)
		5 (24)	10 Feb 2025	5 – Project Proposal Part 2 (lecture video)
		10 (29)	17 Mar 2024	6 - The Middle Stage and Methodologies (lecture video)
		13 (32)	7 Apr 2024	7 – Interim Report (f2f lecture)
b.	Project topic selection	1,2 (20,21)	25 Jan 2025	Submission of the Project Topic and Project supervisor allocation
c.	Project Proposal Presentation	6 (25)	17, 20 Feb 2025	The mass entation schodule will be supported later
		7 (26)	24, 27 Feb 2025	The presentation schedule will be announced later
d.	Initial Report	8 (27)	9 Mar 2025	Submit through the OLE





Schedule (2025 Summer)

	Activities	Week	Date	Topics
d.	Interim Report Interim Demo	1 (37)	18 May 2025 (tentative)	Submit through the OLE
e.	Lecture (Summer semester)	2 (38) 6 (42)	19 May 2025 16 June 2025	8 – Evaluation and Research Methodology (lecture video) 9 – Effective Oral Presentation (lecture video)
f.	Final Presentation + Demo	10 (46)	14 July 2025 21, 24 July 2025	10 – Writing Final Report (lecture video)
1.	That I resentation Demo	12 (48)	28, 31 July 2025	The presentation schedule will be announced later
g.	Final submission	13 (49)	10 Aug 2025 (tentative)	 Final Report Project Video Source Code





Assessment: Plagiarism and Copyright Infringement

- Plagiarism will be penalized severely failed the course
 - Academic dishonesty pretending the work is done by you
 - Copying from another document without reference
 - Using a method and not attributing to the original author
- Copyright infringement may be sued by the owner
 - Use of creative work without permission



Project Selection and Supervisor Allocation



- **Basic Principle**: You choose your own topic based on your academic background and working experience
- Individual Meetings will be arranged on week 1 and week 2 (16,20,23 Jan 2025)
 - During the meeting, you need to prepare one A4-page document with your project idea.
 - We will give you some feedback and suggestions to let you further revise your topic.
 - We prefer this meeting to be face-to-face, but a Zoom meeting is also ok if it is necessary.
 - The meeting schedule will be announced later.
- You need to submit your project topic on 25 Jan 2025 (in OLE)
 - One A4 page
 - (1) The title of the topic
 - (2) A summary of your proposal idea (<200 words)



Project Selection and Supervisor Allocation



- We are going to have **4** project supervisors in this course.
 - Dr. Jeff Au Yeung
 - Prof. Kenneth Tong
 - Prof. CK Poon
 - Ms. Justina Ho
- The supervisor allocation will be done on week 3. We will allocate the project based on your topics, the supervisors' expertise, and the supervisors' loading.
- The result of the allocation will be released in late week 3 (after the Lunar New Year holidays)
- You are expected to meet with your supervisors at least once every 2 weeks





香港都會大學 科技學院 Hong Kong Metropolitan University School of Science and Technology

Dr. Jeff Au Yeung

- Senior Lecturer, HKMU
- SMIEEE, MIET, MHKCS
- Programme Leader (BSCHCS, BSCHCOMP, MCOMP)
- BEng, MPhil, PhD (HKUST)
- Research Area
 - Digital Video and Image Processing
 - Digital Speech Processing
 - Natural Language Processing
 - Machine Learning
 - Deep Learning
 - I also supervised topics related to IoT, hardware-related topics







香港都會大學 科技學院 Hong Kong Metropolitan University School of Science and Technology

Prof. Kenneth Tong

- Chair Professor of Antennas and Applied Electromagnetics, HKMU
- Former Professor of Antennas and Applied Electromagnetics, University College London
- FIEEE, CEng, FEMA, FHEA
- BEng, PhD (CityU)
- Research Area
 - Antenna Design
 - Microware Engineering
 - Communication Engineering
 - Cyberphysical systems and the Internet of Things





香港都會大學 科技學院 Hong Kong Metropolitan University School of Science and Technology

Prof. CK Poon

- PT Lecturer, HKMU
- Former Professor, Dept. of Computer Science, The Hang Seng University of Hong Kong
- BSc, MPhil (HKU), PhD (University of Toronto)
- Research Area
 - Artificial Intelligence, Data Mining, & Information Retrieval,
 - Education Technology,
 - Data Structures and Algorithms
 - Operations Research, and
 - Computational Complexity





香港都會大學 科技學院 Hong Kong Metropolitan University School of Science and Technology

Ms. Justina Ho

- PT Lecturer, HKMU
- Director, Talent Wealth Group Limited
- BMath (University of Waterloo), MSc (University of Warwick), LLB (University of London)
- Hon FIET, MIEEE
- Research Area
 - Project Management,
 - Engineering Consulting,
 - Innovation Commercialization,
 - Digital Transformation,
 - Technology Transfer, International, STEM Education, EDI, NGO Management







■ Getting Exposure to the Real World of IT





1171



Various Project Competition















Various Project Competition











