

Final Year Project (FYP) Syllabus for SMMG 4960

(2023 intake students)

FYP Format and Aims

The FYP is a year-long project training experience. It develops students' abilities to survey literature, critically analyse and plan projects, design practical solutions, manage a substantial body of work, and communicate findings effectively.

- **General format:** A wide range of topics will be made available to students via the [FYP system](#), and students will form a group of 2-4 members to pair with the projects and supervisors. In HKUST-GZ, students from different majors can freely form a group, and are allowed to select topics proposed by any faculty member (detailed pairing and selection mechanisms as below).
- **Intended Learning Outcomes (ILOs) of SMMG 4960**

Upon completion of the FYP, SMMG students are expected to be able to do the following:

	SMMG 4690 ILOs	Nature of the learning outcomes <i>A - Knowledge/Content Related;</i> <i>B - Academic Skills/Competencies;</i> <i>C - Others</i>
1	Know how to evaluate key manufacturing techniques, select an appropriate technique to solve a given problem and apply the selected technique to execute a product manufacturing.	<i>A, B</i>
2	Demonstrate the ability to assess a range of manufacturing methods, select an appropriate method and apply it to manufacture the chosen product.	<i>B</i>
3	Demonstrate a strong ability to analyse the manufacturing processes for the chosen product and communicate the analysis and outcomes in a written report, using appropriate technical terminology.	<i>A, B, C</i>
4	Become more effective writers for scientific manuscripts, peer reviews, grants or any other academic and professional writing.	<i>A, B</i>
5	Be familiar with artificial intelligent (AI) tools (i.e., AI-assisted programming, modelling, writing, etc.) and demonstrate the ability to appropriately use relevant tools to facilitate the project completion or delivery.	<i>B, C</i>

- **FYP system:** Project selection, paring, execution, and reporting will all be accessed from the FYP system: <https://ugfyp.hkust-gz.edu.cn/>

Topic Selection and Paring

➤ **Topic releasing and paring**

Dates	Actions
Jun 5 th	FYP info session
Jun 6 th – 11 th	- Project releasing: students can access all projects from the FYP system; - Application: each student can apply for three projects, in the order of their preference.
Jun 11 th	Prime supervisor review projects
Jun 18 th	Thrust coordination and project confirming

This University-wide FYP is intended to maximise the cross-subject flexibility, while ensuring the student can satisfy their degree-program's requirements. Thus, the roles of the supervisors in the FYP are defined as below:

- **Prime supervisor:** The prime supervisor is also the project owner; each project has only one prime supervisor. Students can choose to pair with prime supervisors who are not from their own degree-offering thrusts. The prime supervisor is responsible for defining the project outcomes and deliverables, as well as providing the principal academic guidance for project delivery.
- **Co-supervisor:** In case that the prime supervisor is not from the degree-offering thrust of the student, then a co-supervisor, who is from the student's home thrust, is mandatory. The co-supervisor is responsible for assessing and ensuring the student's FYP aligns with and fulfils the ILOs of both the FYP and the degree program. A co-supervisor can be recommended by the prime supervisor, or nominated by the students.

Reporting and Assessments

The FYP spans the whole academic year, with a mid-term review and final delivery as the reporting and assessment tasks. To ensure smooth project execution and to avoid any delay of the graduation, please ensure that you strictly follow the assessment timeline.

Should you experience any difficulties during the project, please ensure to contact your supervisor and the thrust office in time.

➤ **Assessment tasks and weight**

	Task	Weight	Due date
Mid-term review	Milestone presentation	10 %	Dec 25 th , 2026
	Milestone report	20 %	
Final delivery	Thesis	25 %	May 12 th , 2027
	Oral defence	45 %	May 17-19 th , 2027

Detailed grading rubrics for each assessment task will be published before the start of 2026-27 Fall term.

➤ Grading standard

This course utilises an absolute grading system as follows:

A: [100,85]; B: (85,70]; C: (70,55]; D: (55,40]; F: (40,0].

Subgrades (*e.g.*, A-, B+, etc.) will be assigned for every 5 points within these ranges.

➤ Reporting and Assessment Timeline

Year	Dates	Action
2026	Dec 25 th	Milestone presentation and report due
2027	Jan 15 th	Supervisor release feedback on the mid-term project progress
	May 12 th	Thesis submission due
	May 17-19 th	Project oral defence
	May 24 th	Supervisor release feedback on the thesis and defence
	May 30 th	Thesis revision and final submission due

➤ Project extension

Students unable, under Extenuating Circumstances Affecting Assessment Policy of HKUST-GZ, to give their presentations at the scheduled times should notify their project supervisor and the thrust as soon as possible. For the milestone presentation extension, permission from supervisor is needed; for the final presentation, permissions from the supervisor and the thrust are required.

Extensions to the milestone report shall be permitted by the project supervisor and documented on the feedback.

*Extensions to the final thesis deadline are very limited. A maximum 7-day extension may be granted upon approval by the thrust office. Penalties will be applied, where no extension is granted, for each day that a report is late. The final report will *not* be accepted if *more than 7 days late*.*

➤ Plagiarism avoidance

It is self-evident that research-based project work requires extensive discussion and cooperation with your supervisor and others. However, all reports and presentations must document the individual work of the author, with specific reference being made to any material taken from another source (including concepts, theories, equations, figures or computer code, whether published in the open literature or on websites, or unpublished work obtained by other means). Failure to reference the work of others is cheating and will be penalised.

You must read the HKUST-GZ academic integrity policy (<https://www.hkust-gz.edu.cn/academics/academic-quality-manual/academic-standards-and-learning-outcome/regulations-for-student-conduct-and-academic-integrity/>).