

**City University of Hong Kong  
Course Syllabus**

**offered by  
Department of Mechanical Engineering  
with effect from Semester A 2024 /25**

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**Part I Course Overview**

<b>Course Title:</b>	Directed Studies
<b>Course Code:</b>	MNE6047
<b>Course Duration:</b>	1 semester
<b>Credit Units:</b>	3 credits
<b>Level:</b>	P6
<b>Medium of Instruction:</b>	English
<b>Medium of Assessment:</b>	English
<b>Prerequisites:</b> <i>(Course Code and Title)</i>	Nil
<b>Precursors:</b> <i>(Course Code and Title)</i>	Nil
<b>Equivalent Courses:</b> <i>(Course Code and Title)</i>	Nil
<b>Exclusive Courses:</b> <i>(Course Code and Title)</i>	Nil

## Part II Course Details

### 1. Abstract

The aim of this course is to strengthen the students' creative, analytical, life-long learning, application and integration skill as well as the ability to work independently with self-motivation through studying a selected subject under the supervision of an academic member who has the subject knowledge, without attending regular lectures & tutorial/laboratory at the University. An individual is allowed to enrol in this course subject to approval and used only for special occasions such as for those who have taken a course but did not complete all the required components.

### 2. Course Intended Learning Outcomes (CILOs)

(CILOs state what the student is expected to be able to do at the end of the course according to a given standard of performance.)

No.	CILOs	Weighting (if applicable)	Discovery-enriched curriculum related learning outcomes (please tick where appropriate)		
			A1	A2	A3
1.	Define the key outcome of proposed project.		✓	✓	
2.	Explain the key aspects of the subject.			✓	
3.	Integrate new knowledge gained to produce required outcomes.			✓	✓
4.	Communicate a subject area to layman effectively.			✓	
		N.A.			

A1: Attitude

*Develop an attitude of discovery/innovation/creativity, as demonstrated by students possessing a strong sense of curiosity, asking questions actively, challenging assumptions or engaging in inquiry together with teachers.*

A2: Ability

*Develop the ability/skill needed to discover/innovate/create, as demonstrated by students possessing critical thinking skills to assess ideas, acquiring research skills, synthesizing knowledge across disciplines or applying academic knowledge to real-life problems.*

A3: Accomplishments

*Demonstrate accomplishment of discovery/innovation/creativity through producing /constructing creative works/new artefacts, effective solutions to real-life problems or new processes.*

**3. Learning and Teaching Activities (LTAs )**  
*(LTAs designed to facilitate students' achievement of the CILOs.)*

**a. Project Track**

The LTAs are flexible and depending on the nature of the directed studies as specified by the supervisor and the work may be carried out without the requirement to attend regular lecture/tutorial/laboratory classes.

OR

**b. Course Track**

Alternatively, typical syllabus of a course that was not already completed by the student(s) or equivalent topic(s) may be prescribed and the assessment criteria are established, adopting standards used for a regular taught course, prior to the commencement of the course.

**4. Assessment Tasks/Activities (ATs)**  
*(ATs are designed to assess how well the students achieve the CILOs.)*

Assessment Tasks/Activities	CILO No.				Weighting	Remarks
	1	2	3	4		
Continuous Assessment: 100%						
a. Project Track - Report and Presentation  OR	✓	✓	✓	✓	100%	
b. Course Track – To be defined by the supervisor (tests, quizzes, etc.)	✓	✓	✓	✓	100%	
Examination: 0%						
					100%	

## 5. Assessment Rubrics

*(Grading of student achievements is based on student performance in assessment tasks/activities with the following rubrics.)*

Applicable to students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter

### a. Project Track

Assessment Task	Criterion	Excellent (A+, A, A-)	Good (B+, B, B-)	Fair (C+, C, C-)	Marginal (D)	Failure (F)
Report	Evidence of good literature review to develop a methodology to accomplish the project objectives, project execution and the results obtained, analysing the results and drawing relevant conclusions along with related discussion.	High	Significant	Moderate	Basic	Not even reaching marginal levels
Presentation	Summarize the critical aspects of the project undertaken, methodology adopted to accomplish the stated objective, and conclusions drawn showing key results in a concise manner through a presentation.	High	Significant	Moderate	Basic	Not even reaching marginal levels

### b. Course Track

Assessment Task	Criterion	Excellent (A+, A, A-)	Good (B+, B, B-)	Fair (C+, C, C-)	Marginal (D)	Failure (F)
To be prescribed by the supervisor in the Application Form	To be prescribed by the supervisor in the Application Form, by adopting standards used for a regular taught course.	High	Significant	Moderate	Basic	Not even reaching marginal levels

Applicable to students admitted from Semester A 2022/23 to Summer Term 2024

**a. Project Track**

Assessment Task	Criterion	Excellent (A+, A, A-)	Good (B+, B)	Marginal (B-, C+, C)	Failure (F)	
Report	Evidence of good literature review to develop a methodology to accomplish the project objectives, project execution and the results obtained, analysing the results and drawing relevant conclusions along with related discussion.	High	Significant	Moderate	Not even reaching marginal levels	
Presentation	Summarize the critical aspects of the project undertaken, methodology adopted to accomplish the stated objective, and conclusions drawn showing key results in a concise manner through a presentation.	High	Significant	Moderate	Not even reaching marginal levels	

**b. Course Track**

Assessment Task	Criterion	Excellent (A+, A, A-)	Good (B+, B)	Marginal (B-, C+, C)	Failure (F)	
To be prescribed by the supervisor in the Application Form	To be prescribed by the supervisor in the Application Form, by adopting standards used for a regular taught course.	High	Significant	Moderate	Not even reaching marginal levels	

*\* For more details, please refer to Appendix 1*

### **Part III Other Information** (more details can be provided separately in the teaching plan)

#### **1. Keyword Syllabus**

*(An indication of the key topics of the course.)*

The course is flexible, and has no specific syllabus. Each student taking this course will be required to undertake an in-depth reading assignment of selected literatures or other kinds of publications dealing with some advanced level topics. The work may involve intensive literature search about a specific topics related to the management and operation of a manufacturing enterprise, or to the trade and operation analysis of an industry, or the search and applications of a particular technology most suitable for product design, manufacturing and operations as required by the company where the student is working with.

Alternatively, typical syllabus of a course that was not already completed by the student(s) or equivalent topic(s) may be prescribed.

The syllabus must be proposed by the student and the supervisor and endorsed by the course examiner. The supervisor shall not normally be the same person who supervises the student's dissertation project in order to avoid double counting of achievement.

#### **2. Reading List**

##### **2.1 Compulsory Readings**

*(Compulsory readings can include books, book chapters, or journal/magazine articles. There are also collections of e-books, e-journals available from the CityU Library.)*

There are no specific compulsory readings. However, the student will be guided to follow one or more books depending on the selected topic to be investigated and the relevant methodologies that could be explored to carry out this directed studies.

##### **2.2 Additional Readings**

*(Additional references for students to learn to expand their knowledge about the subject.)*

N.A.

## Appendix 1 MNE6047 Directed Studies Guidelines and Forms

### MNE6047 Directed Studies - Guidelines

This document outlines the guidelines and regulations for Directed Studies proposal and assessment issues. The course should be completed within a single semester/term.

This course is intended mostly for MSME students who have needs for special knowledge or application of knowledge that are not available in the regular courses or was unable to take a course in the programme due to constraints. Subject to approval and only for special occasions, an individual who is allowed to enroll in this course will study a special subject under the supervision of an MNE academic member who has the subject knowledge, without attending regular classes at the University. There are two tracks.

#### a. Project Track

A **proposal** (maximum two A4 pages) should be submitted to the MNE6047 course examiner with the accompanied **application form** by the end of first week of the Semester/Term after careful solicitation with the prospective supervisor and the course examiner. It should be noted that the proposal should not contain work that could be used directly in the student's dissertation project to avoid double-counting of achievement. The MNE6047 supervisor shall not be the same person who supervises the student's dissertation project. The proposal will briefly outline the followings: introduction, objectives, methodology, and deliverables.

When it is close to the end of the study, a **report** for the course shall be submitted by the student in the format normally adopted for dissertation projects before the last day of the Semester. A **presentation** will be conducted by the students for the supervisor and the assessor. Both assessor and the supervisor will assess the report and presentation. The course examiner will moderate the grade based on the two grades provided by the supervisor and assessor.

#### b. Course Track

For cases involving the **study of prescribed topics of a course** that was not already completed by the student(s) or equivalent topic(s), the assessment criteria are first established, adopting standards used for a regular taught course, prior to the commencement of the course. Please refer to the application form for more details.

Lastly, there will be no vetting of proposals if the proposal adheres to the above guidelines and it is endorsed by the respective supervisor. However, the course examiner reserves the right to refuse a proposal when required. Being a normal Elective, the course shall follow regular course Add/Drop procedures and request will not be entertained after the nominal Add/Drop period.

## Project Track

Office  
Use

Student Name		
Student ID		
Proposed Directed Study Title		
MNE6047 Supervisor Name		
Supervisor Signature		
Proposal Attached (Y/N)		
Date		

Notes: 1. MNE6047 is a normal course and shall follow the normal add/drop regulations; it is therefore advisable to confirm all your study details before week one of the Semester/Term.

2. This application form should be submitted together with the proposal.



## Course Track

Office  
Use

Student Name		
Student ID		
Topics prescribed for study (Use a separate page if necessary)	1. 2. 3. 4. 5. 6.	
Assessment Criteria (Tests, quizzes, etc.) Please specify the exact number for each type of assessment and weighting that will be used <u>Guideline</u> : Follow the typical criteria and standard used in a P6 level course		
MNE6047 Supervisor Name		
Supervisor Signature		
Date		

Notes: 1. MNE6047 is a normal course and shall follow the normal add/drop regulations; it is therefore advisable to confirm all your study details before week one of the Semester.

2. This application form should be submitted together with the proposal.