

**City University of Hong Kong  
Course Syllabus**

offered by Department of Systems Engineering and Engineering Management  
with effect from Semester A 2017/18

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**Remarks:**

Students under the 2012-13, 2013-14 and 2014-15 catalogue terms will register for the course in 6 credit units.  
Other students will register for the course in 9 credit units.

**Part I Course Overview**

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|---|--|
| <b>Course Title:</b>                                  | <b>Capstone Project II</b>   |
| <b>Course Code:</b>                                   | <b>SEEM4116</b><br><u>Normal Track:</u> 2 semesters<br><u>Fast Track:</u> 1 semester<br>Fast track is normally available to students who have completed all other courses of the degree study. It requires the approval of the supervisor, course leader of the Capstone Projects and Major Leader.<br><br><u>Other Track:</u> 1 semester + 1 summer term or 1 summer term + 1 semester<br>This is mainly for students who have participated in academic exchange programmes in the preceding semester. It requires the approval of the supervisor, course leader of the Capstone Projects and Programme Leader. |
| <b>Course Duration:</b>                               |  |
| <b>Credit Units:</b>                                  | <b>9 (6 for students under the 2012-13, 2013-14 and 2014-15 catalogue terms)</b>   |
| <b>Level:</b>   | <b>B4</b>  |
| <b>Proposed Area:</b><br>(for GE courses only)        | <input type="checkbox"/> Arts and Humanities<br><input type="checkbox"/> Study of Societies, Social and Business Organisations<br><input type="checkbox"/> Science and Technology  |
| <b>Medium of Instruction:</b>                         | <b>English</b>   |
| <b>Medium of Assessment:</b>                          | <b>English</b>   |
| <b>Prerequisites:</b><br>(Course Code and Title)      | <b>SEEM3116 Capstone Project I with B+ grade and above</b>   |
| <b>Precursors:</b><br>(Course Code and Title)         | <b>Nil</b><br><b>SEEM/JC/MBE4068 Project (Individual) /</b><br><b>JC4001Project (e-Logistics and Technology Management/</b><br><b>MBE4116/JC4116 Capstone Project II /</b><br><b>FS4004 Overseas Research Internship Scheme</b>  |
| <b>Equivalent Courses:</b><br>(Course Code and Title) |  |
| <b>Exclusive Courses:</b><br>(Course Code and Title)  | <b>Nil</b>   |

## Part II Course Details

### 1. Abstract

(A 150-word description about the course)

This course offers a challenging opportunity for a final year student to integrate, apply and extend the knowledge gained from the various courses of his/her major study and embark on the second leg of a course of discovery and innovation through an individually guided capstone project. Specifically, this is the implementation stage of the capstone project proposed in SEEM3116 Capstone Project I.

### 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 <sup>#</sup>   | Weighting*<br>(if applicable) | Discovery-enriched curriculum related learning outcomes (please tick where appropriate) |    |    |
|-----|--|-------------------------------|---|----|----|
|     |  |                               | A1  | A2 | A3 |
| 1.  | Develop the methodology and implementation plan to carry out the capstone project proposed in SEEM3116.  | 30%                           | √   | √  | √  |
| 2.  | Apply and extend the theories and knowledge learned in the major study through the methodical implementation of the proposed capstone project. | 50%                           | √   | √  | √  |
| 3.  | Communicate in writing and oral presentation, the project process, experience and results.   | 20%                           | √   | √  |    |
|     |  | 100%                          |   |    |    |

\* If weighting is assigned to CILOs, they should add up to 100%.

<sup>#</sup> Please specify the alignment of CILOs to the Gateway Education Programme Intended Learning outcomes (PILOs) in Section A of Annex.

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 self-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. Teaching and Learning Activities (TLAs)**  
*(TLAs designed to facilitate students' achievement of the CILOs.)*

| TLA | Brief Description  | CILO No. |   |   | Hours/week<br>(if applicable) |
|-----|--|----------|---|---|-------------------------------|
|     |  | 1        | 2 | 3 |                               |
| T1  | Each student shall develop an action plan for the proposed capstone project.                                 | √        |   |   |                               |
| T2  | Each student shall carry out the capstone project action plan with regular consultation with the supervisor. |          | √ |   |                               |
| T3  | Each student shall write and present a scholarly paper on the result of the capstone project.                |          |   | √ |                               |

**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 |            |         |
| Continuous Assessment: <u>100%</u>                              |          |   |   |            |         |
| Continuous assessment by supervisor and capstone project report | √        | √ | √ | 50%        |         |
| Publishable scholarly written paper                             |          |   | √ | 40%        |         |
| Oral presentation   |          |   | √ | 10%        |         |
| Examination: <u>0%</u>  |          |   |   |            |         |
|   |          |   |   | 100%       |         |

*\*The weightings should add up to 100%.*

## 5. Assessment Rubrics

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

| Assessment Task | Criterion   | Excellent<br>(A+, A, A-) | Good<br>(B+, B, B-) | Fair<br>(C+, C, C-) | Marginal<br>(D) | Failure<br>(F)                    |
|-----------------|---|--------------------------|---------------------|---------------------|-----------------|-----------------------------------|
| Coursework      | Continuous assessment by supervisor and capstone project report | High                     | Significant         | Moderate            | Basic           | Not even reaching marginal levels |
|                 | Publishable scholarly written paper                             | High                     | Significant         | Moderate            | Basic           | Not even reaching marginal levels |
|                 | Oral presentation   | High                     | Significant         | Moderate            | Basic           | Not even reaching marginal levels |

**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.

**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.)*

**2.2. Additional Readings**

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