

**City University of Hong Kong  
Course Syllabus**

**offered by Department of Electrical Engineering  
with effect from Semester A in 2024/2025**

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**Part I Course Overview**

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| <b>Course Title:</b>   | Directed Studies for Taught Postgraduate Students      |
| <b>Course Code:</b>  | EE6611   |
| <b>Course Duration:</b>                                      | One Semester (13 weeks)                                |
| <b>Credit Units:</b>   | 3  |
| <b>Level:</b>  | P6   |
| <b>Medium of Instruction:</b>                                | English  |
| <b>Medium of Assessment:</b>                                 | English  |
| <b>Prerequisites:</b><br><i>(Course Code and Title)</i>      | 12 Credit Units of MSc elective courses; or equivalent |
| <b>Precursors:</b><br><i>(Course Code and Title)</i>         | Nil  |
| <b>Equivalent Courses:</b><br><i>(Course Code and Title)</i> | Nil  |
| <b>Exclusive Courses:</b><br><i>(Course Code and Title)</i>  | EE6680 Dissertation<br>EE6680D Dissertation            |

## Part II Course Details

### 1. Abstract

The course aims to provide students with learning experience to broaden their vision in selected Electronic Engineering areas in research and development, and to develop their initiative, interests, and individual thinking via discovery learning. After the course, the students should have a deeper understanding on a specific area.

### 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<br>(if applicable) | Discovery-enriched curriculum related learning outcomes (please tick where appropriate) |    |    |
|-----|--|------------------------------|---|----|----|
|     |  |                              | A1  | A2 | A3 |
| 1.  | Organize and manage a substantial individual task in selected areas in research and development.   |                              | ✓   | ✓  |    |
| 2.  | Demonstrate the ability to work independently with professionalism in successfully completing Directed Studies assignments.  |                              | ✓   | ✓  |    |
| 3.  | Demonstrate initiative, innovative and intellectual abilities in handling a technically demanding work.  |                              | ✓   | ✓  | ✓  |
| 4.  | Disseminate results of the Directed Studies in a combination of continuous assessment and/or examination, or continuous evaluation of student's learning process and outcomes reflecting what they learnt in the course. |                              | ✓   | ✓  | ✓  |
|     |  | 100%                         |   |    |    |

*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.)*

| LTA      | Brief Description                     | CILO No. |   |   |   |  |  | Hours/week<br>(if applicable) |
|----------|---------------------------------------|----------|---|---|---|--|--|-------------------------------|
|          |                                       | 1        | 2 | 3 | 4 |  |  |                               |
| Research | Students will engage in research work | ✓        | ✓ | ✓ | ✓ |  |  |                               |

A supervisor of the Directed Studies will be assigned to each student. The supervisor(s) is/are responsible for guiding and overseeing the student on an individual basis.

Discovery Learning Experience (DLE) is an element to this course - with tasks assigned via the directed studies, and supported with regular meetings with students to assess their progress; feedback are given to the students on their progress.

**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: <u>100%</u> |          |   |   |   |  |  |           |         |
| Dissertation and oral examination  | ✓        | ✓ | ✓ | ✓ |  |  | 100%      |         |
|                                    |          |   |   |   |  |  | 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

| Assessment Task | Criterion                | Excellent<br>(A+, A, A-) | Good<br>(B+, B, B-) | Fair<br>(C+, C, C-) | Marginal<br>(D) | Failure<br>(F)                      |
|-----------------|--------------------------|--------------------------|---------------------|---------------------|-----------------|-------------------------------------|
| 1. Coursework   | Achievements in<br>CILOs | High                     | Significant         | Moderate            | Basic           | Not even reaching<br>marginal level |

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

| Assessment Task | Criterion             | Excellent<br>(A+, A, A-) | Good<br>(B+, B,) | Marginal<br>(B-, C+, C) | Failure<br>(F)                      |
|-----------------|-----------------------|--------------------------|------------------|-------------------------|-------------------------------------|
| 1. Coursework   | Achievements in CILOs | High                     | Medium           | Low                     | Not even reaching marginal<br>level |

## 6. Constructive Alignment with Programme Outcomes

| PILO          | How the course contribute to the specific PILO(s)  |
|---------------|--|
| 1, 2, 3, 4, 5 | The course provides students with ample opportunities in acquiring knowledge of and evaluation of electrical, electronic and information engineering technologies in the chosen areas of directed studies. |
| 6, 7          | Students are required to complete directed studies, demonstrate and present their outcomes. Students will also acquire project management skills.  |

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

#### 1. Keyword Syllabus

The course is flexible, and has no specific syllabus. An academic staff member directs student(s) to pursue a research problem.

The directed studies will be drawn from available staff expertise, with emphasis being placed on recent research work and state of the art technologies .

#### 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.)*

|    |   |
|----|---|
| 1. | Designated research papers in the field . |
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##### 2.2 Additional Readings

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

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|----|---|
| 1. | The directed studies supervisor shall recommend relevant books, publications and reference materials. |
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