# School of Energy, Environment and Materials

## Doctor of Philosophy Program in Energy Technology

This program aims at developing graduates with profound knowledge and ability in the field of energy management technology to solve problems and to create innovative ideas for the benefits of the society and the country.

### Applicant Qualifications

1. A candidate must hold a bachelor's or master 's degree in science, engineering, education technology, industrial science or equivalent field in energy studies or be considered qualified by the program committee.
2. A candidate must have qualifications according to Article 15: Admission, King Mongkut's University of Technology Thonburi on Graduate Studies' Regulations B.E. 2547 (2004).

### Professions after Graduation

1. Lecturer, academic, and researcher in both government or private educational institutions and agencies that focus on studying the use of energy and producing energy effectively, including technology development that is related to renewable energy
2. Engineer and scientist in energy technology that can bring skills of using and producing energy effectively, including applying the use and production of renewable energy in practice
3. Consultant in energy technology that provides knowledge and suggestions in designing the use and production of energy systems effectively

### Curriculum

| | |
|---|---|
| Plan 1 for student with Master degree | 48 Credits |
| Plan 2 for student with Master degree | 49 Credits |

### Curriculum Components

Plan1 for student with Master degree

| | | |
|---|---|---|
| • Major Course | 1 | Credits (S/U) |
| • Dissertation | 48 | Credits |

Plan2 for student with Master degree

| | | |
|---|---|---|
| • Major Course | 4 | Credits |
| • Elective Course | 9 | Credits |
| • Dissertation | 36 | Credits |

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## Doctor of Philosophy Program in Energy Technology

COURSE STRUCTURE

**Plan 1 for student with Master degree**

**First Year**

| **First Semester** | **Credits** |
|---|---|
| EEM 701 Seminar | 1 (0-2-3) |
| EEM 708 Dissertation | 6 (0-12-24) |
| Total | 6 (0-14-27) |

| **Second Semester** | **Credits** |
|---|---|
| EEM 708 Dissertation | 9 (0-18-36) |
| Total | 9 (0-18-36) |

**Second Year**

| **First Semester** | **Credits** |
|---|---|
| EEM 708 Dissertation | 9 (0-18-36) |
| Total | 9 (0-18-36) |

| **Second Semester** | **Credits** |
|---|---|
| EEM 708 Dissertation | 9 (0-18-36) |
| Total | 9 (0-18-36) |

**Third Year**

| **First Semester** | **Credits** |
|---|---|
| EEM 708 Dissertation | 9(0-18-36) |
| Total | 9(0-18-36) |

| **Second Semester** | **Credits** |
|---|---|
| EEM 708 Dissertation | 6(0-12-24) |
| Total | 6(0-12-24) |

**Plan 2 for student with Master degree**

**First Year**

| **First Semester** | **Credits** |
|---|---|
| EEM 601 Research Methodology | 3 (3-0-9) |
| Or | |
| EGT 612 Design and Analysis of Experiments | 3 (3-0-9) |
| And | |

| | |
|---|---|
| EEM 701 Seminar | 1(0-2-3) |
| EGT xxx Elective I | 3 (3-0-9) |
| EGT xxx Elective II | 3 (3-0-9) |
| Total | 10 (9-2-30) |

| **Second Semester** | **Credits** |
|---|---|
| EGT xxx Elective III | 3 (3-0-9) |
| EEM 709 Dissertation | 6(0-12-24) |
| Total | 9 (3-12-33) |

**Second Year**

| **First Semester** | **Credits** |
|---|---|
| EEM 709 Dissertation | 9(0-18-36) |
| Total | 9 (0-18-36) |

| **Second Semester** | **Credits** |
|---|---|
| EEM 709 Dissertation | 9(0-18-36) |
| Total | 9 (0-18-36) |

**Third Year**

| **First Semester** | **Credits** |
|---|---|
| EEM 709 Dissertation | 6(0-12-24) |
| Total | 6 (0-12-24) |

| **Second Semester** | **Credits** |
|---|---|
| EEM 709 Dissertation | 6(0-12-24) |
| Total | 6 (0-12-24) |