

Doctor of Philosophy Program in Electrical and Computer Engineering

Doctor of Philosophy Program in Electrical and Computer Engineering (International Program) Ph.D. (Electrical and Computer Engineering)

Philosophy of the program:

Doctor of Philosophy Program in Electrical and Computer Engineering (International Program) at the Faculty of Engineering, King Mongkut's University of Technology Thonburi is a doctoral program intended to produce international standard academics and educational personnel together with electrical engineers, computer engineers, electronics and telecommunication engineers, and instrumentation and control system engineers at the doctoral degree level who are proficient in conducting research, designing and developing new technologies together with applying new technologies to solve engineering problems. They are also expected to work with professional ethics and strive for new knowledge, enabling them to keep abreast with new technologies related to their fields. In addition to these traits, the graduates should be equipped with teaching skills so that they can transfer knowledge and technologies and provide academic services appropriate for sustainable development for the benefits of the country.

Professions after graduation:

- 1. Lecturers and Academics
- 2. Researchers in educational institutes and industrial sectors
- 3. Consultants in government and private institutes

Curriculum

Plan 1.1 for student with Master degree	48 Credits
Plan 2.1 for student with Master degree	48 Credits
Plan 2.2 for student with Bachelor degree	75 Credits

Curriculum Components

Plan 1.1 for student with	n Master degree		
Dissertation		48	Credits
Plan 2.1 for student with	n Master degree		
☐ Major Course		3	Credits
☐ Elective Course		9	Credits
Dissertation		36	Credits
Plan 2.2 for student with	n Bachelor degree		
☐ Major Course		6	Credits
☐ Elective Course		21	Credits
Dissertation		48	Credits

COURSE STRUCTURE

Plan 1.1 for student with Master degree

First Year

First Semester Credits



Doctor of Philosophy Program in Electrical and Computer Engineering

CPE 691 Research Methodology	2 (2-0-6) (S/U)
CPE 791 Dissertation	6 (0-12-24)
Total	<u>6 (2-12-30)</u>

Second Semester Credits

CPE 711 Electrical and Computer Engineering Seminar 1 (0-2-3) (S/U)
CPE 791 Dissertation 9 (0-18-36)

Total 9 (0-20-39)

Second Year

 First Semester
 Credits

 CPE 791 Dissertation
 9 (0-18-36)

 Total
 9 (0-18-36)

Second SemesterCreditsCPE 791 Dissertation9 (0-18-36)Total9 (0-18-36)

Third Year

First Semester Credits

CPE 791 Dissertation 9 (0-18-36)

Total 9 (0-18-36)

Second Semester Credits

CPE 791 Dissertation 6 (0-12-24)

Total 6 (0-12-24)

Plan 2.1 for student with Master degree

First Year

First Semester	Credits
CPE 691 Research Methodology	2 (2-0-6)
CPE 710 Special Project Study	3 (3-0-9)
XXX xxx Elective Course 1	3 (3-0-9)
Total	<u>8 (8-0-24)</u>

Second Semester	Credits
CPE 711 Electrical and Computer Engineering Seminar	1 (0-2-3)
CPE 790 Dissertation	3 (0-6-12)
XXX xxx Elective Course 2	3 (3-0-9)
Total	7 (3-8-24)



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Second Year

First Semester	Credits
CPE 790 Dissertation	9 (0-18-36)
Total	<u>9 (0-18-36)</u>
Second Semester	Credits
CPE 790 Dissertation	9 (0-18-36)
Total	9 (0-18-36)
Third Year	
First Semester	Credits
CPE 790 Dissertation	9 (0-18-36)
Total	<u>9 (0-18-36)</u>

Second Semester Credits

 CPE 790 Dissertation
 6 (0-12-24)

 Total
 6 (0-12-24)

Plan 2.2 for student with Bachelor degree

First Year

First Semester	Credits
CPE xxx Elective Course 1	3 (3-0-9)
CPE xxx Elective Course 2	3 (3-0-9)
CPE xxx Elective Course 3	<u>3 (3-0-9)</u>
Total	<u>9 (9-0-27)</u>

Second Semester Credits

Total	<u>9 (9-0-27)</u>
XXX xxx Elective Course 6	<u>3 (3-0-9)</u>
CPE xxx Elective Course 5	3 (3-0-9)
CPE xxx Elective Course 4	3 (3-0-9)

Second Year

First Semester	Credits
CPE 691 Research Methodology	2 (2-0-6)
CPE 710 Special Project Study	3 (3-0-9)
XXX xxx Elective Course 7	<u>3 (3-0-9)</u>
Total	8 (8-0-24)
Second Semester	Credits
CPE 711 Electrical and Computer	1 (0-2-3)
Engineering Seminar	



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CPE 791 Dissertation <u>6 (0-12-24)</u>

Total <u>7 (0-14-27)</u>

Third Year

First Semester Credits

CPE 791 Dissertation <u>12 (0-24-48)</u>

Total <u>12 (0-24-48)</u>

Second Semester Credits

CPE 791 Dissertation <u>12 (0-24-48)</u>

Total <u>12 (0-24-48)</u>

Forth Year

First Semester Credits

CPE 791 Dissertation <u>12 (0-24-48)</u>

Total <u>12 (0-24-48)</u>

Second Semester Credits

CPE 791 Dissertation <u>6 (0-12-24)</u>

Total <u>6 (0-12-24)</u>