

## Doctor of Philosophy Program in Materials Technology

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

### Applicant Qualifications

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

### Professions after Graduation

1. Engineer and scientist in material technology and material technology management
2. Lecturer, academic and researcher in both government or private educational institutions and agencies
3. Consultant in materials science
4. Entrepreneur who develop business from technology and Self-employed people

### Curriculum

Plan 1.1 for student with Master degree	48 Credits
Plan 1.2 for student with Bachelor degree	72 Credits
Plan 2.1 for student with Master degree	49 Credits
Plan 2.2 for student with Bachelor degree	73 Credits

### Curriculum Components

Plan 1.1 for student with Master degree		
● Major Course	1	Credits (S/U)
● Dissertation	48	Credits
Plan 1.2 for student with Bachelor degree		
● Major Course	1	Credits (S/U)
● Dissertation	72	Credits
Plan 2.1 for student with Master degree		
● Major Course	4	Credits
● Elective Course	9	Credits
● Dissertation	36	Credits

## Doctor of Philosophy Program in Materials Technology

Plan 2.2 for student with Bachelor degree

● Major Course	7	Credits
● Elective Course	18	Credits
● Dissertation	48	Credits

### COURSE STRUCTURE

#### Plan 1.1 for student with Master degree

##### First Year

First Semester	Credits
EEM 701 Seminar	1(0-2-3)(S/U)
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)

## Doctor of Philosophy Program in Materials Technology

### Plan 1.2 for student with Bachelor degree

#### First Year

First Semester	Credits
EEM 701 Seminar	1(0-2-3)(S/U)
EEM 710 Dissertation	12(0-24-48)
Total	13(0-26-52)

#### Second Semester

Second Semester	Credits
EEM 710 Dissertation	12(0-24-48)
Total	12(0-24-48)

#### Second Year

First Semester	Credits
EEM 710 Dissertation	12(0-24-48)
Total	12(0-24-48)

#### Second Semester

Second Semester	Credits
EEM 710 Dissertation	12(0-24-48)
Total	12(0-24-48)

#### Third Year

First Semester	Credits
EEM 710 Dissertation	12(0-24-48)
Total	12(0-24-48)

#### Second Semester

Second Semester	Credits
EEM 710 Dissertation	12(0-24-48)
Total	12(0-24-48)

### Plan 2.1 for student with Master Degree

#### First Year

First Semester	Credits
EEM 601 Research Methodology	3(3-0-9)
EEM 701 Seminar	1(0-2-3)
MTT XXX Major Course	3(3-0-9)
XXX XXX Selective Course	3(3-0-9)
Total	10(9-2-30)

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Second Semester	Credits
XXX XXX Selective Course	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)

### Plan 2.2 for student with Bachelor degree

First Year	
First Semester	Credits
EEM 601 Research Methodology	3(3-0-9)
EEM 701 Seminar	1(0-2-3)
MTT xxx Major Course	3(3-0-9)
MTT xxx Major Course	3(3-0-9)
XXX xxx Selective Course	3(3-0-9)
Total	13(12-2-39)

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Second Semester	Credits
MTT 603 Deformation and Fracture	3(3-0-9)
XXX xxx Selective Course	3(3-0-9)
XXX xxx Selective Course	3(3-0-9)
XXX xxx Selective Course	3(3-0-9)
EEM 708 Dissertation	3(0-6-12)
Total	15(12-6-39)

Second Year	
First Semester	Credits
EEM 708 Dissertation	9(0-18-36)
XXX xxx Selective Course	3(3-0-9)
Total	12(3-18-45)

Second Semester	Credits
EEM 708 Dissertation	12(0-24-48)
Total	12(0-24-48)

Third Year	
First Semester	Credits
EEM 708 Dissertation	12(0-24-48)
Total	12(0-24-48)

Second Semester	Credits
EEM 708 Dissertation	12(0-24-48)
Total	12(0-24-48)