

The program aims at producing doctoral level mathematicians that have theoretical knowledge and skills to apply mathematics in high-level research.

### Applicant Qualifications

1. A candidate must hold a master's degree in mathematics, applied mathematics, physics or equivalent fields with a GPA of not less than 3.25, or
2. A candidate must hold a bachelor's degree with honors in mathematics, applied mathematics, physics, environment science, or related fields or
3. In case that the candidate's qualification does not match the requirements stated in item no.1 or 2, but if the candidate has publication and work experience, the candidate may be considered the program committee for admission.
4. Other qualifications must be 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. Lecturer at all levels
2. Researcher in educational institutions and research institutes
3. Researcher or academic in business workplaces
4. Academic advisor in educational institutions and enterprises

### 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	48 Credits
Plan 2.2 for student with Bachelor degree	72 Credits

### Curriculum Components

Plan 1.1 for student with Master degree		
● Dissertation	48	Credits
Plan 1.2 for student with Bachelor degree		
● Dissertation	72	Credits
Plan.2 1 for student with Master degree		
● Major Course	6	Credits
● Elective Course	6	Credits

- Dissertation 36 Credits

Plan 2.2 for student with Bachelor degree

- Major Course 9 Credits
- Elective Course 15 Credits
- Dissertation 48 Credits

### COURSE STRUCTURE

#### Plan 1.1 for student with Master degree

##### First Year

First Semester	Credits
MTH 897 Dissertation	6(0-12-18)
Total	6(0-12-18)

##### Second Semester

MTH 897 Dissertation	6(0-12-18)
Total	6(0-12-18)

##### Second Year

First Semester	Credits
MTH 897 Dissertation	12(0-24-36)
MTH 894 Seminar 1	1(0-2-3)
Total	12(0-24-36)

##### Second Semester

MTH 897 Dissertation	12(0-24-36)
MTH 895 Seminar 2	1(0-2-3)
Total	12(0-24-36)

##### Third Year

First Semester	Credits
MTH 897 Dissertation	6(0-12-18)
Total	6(0-12-18)

##### Second Semester

MTH 897 Dissertation	6(0-12-18)
Total	6(0-12-18)

### Plan 1.2 for student with Bachelor degree

#### First Year

First Semester	Credits
MTH 896 Dissertation	9(0-18-27)
Total	9(0-18-27)

Second Semester	Credits
MTH 896 Dissertation	9(0-18-27)
MTH 892 Seminar 1	1(0-2-3)
Total	9(0-18-27)

#### Second Year

First Semester	Credits
MTH 896 Dissertation	9(0-18-27)
MTH 893 Seminar 2	1(0-2-3)
Total	9(0-18-27)

Second Semester	Credits
MTH 896 Dissertation	9(0-18-27)
Total	9(0-18-27)

#### Third Year

First Semester	Credits
MTH 896 Dissertation	9(0-18-27)
Total	9(0-18-27)

Second Semester	Credits
MTH 896 Dissertation	9(0-18-27)
Total	9(0-18-27)

#### Forth Year

First Semester	Credits
MTH 896 Dissertation	9(0-18-27)
Total	9(0-18-27)

Second Semester	Credits
MTH 896 Dissertation	9(0-18-27)
Total	9(0-18-27)

### Plan 2.1 for student with Master Degree

#### First Year

First Semester	Credits
MTH 768 Mathematical Methods for Applications	3(3-0-9)
MTH XXX Electives	3(3-0-9)
Total	6(6-0-18)

<b>Second Semester</b>	<b>Credits</b>
MTH 741 Advanced Functional Analysis	3(3-0-9)
MTH XXX Electives	3(3-0-9)
Total	6(6-0-18)
<b>Second Year</b>	
<b>First Semester</b>	<b>Credits</b>
MTH 899 Dissertation	9(0-18-27)
MTH 894 Seminar 1	1(0-2-3)
Total	9(0-18-27)
<b>Second Semester</b>	<b>Credits</b>
MTH 899 Dissertation	9(0-18-27)
MTH 895 Seminar 2	1(0-2-3)
Total	9(0-18-27)
<b>Third Year</b>	
<b>First Semester</b>	<b>Credits</b>
MTH 899 Disserttion	9(0-18-27)
Total	9(0-18-27)
<b>Second Semester</b>	<b>Credits</b>
MTH 899 Dissertation	9(0-18-27)
Total	9(0-18-27)

### Plan 2.2 for student with Bachelor degree

<b>First Year</b>	
<b>First Semester</b>	<b>Credits</b>
MTH 641 Functional Analysis and Applications	3(3-0-9)
MTH 768 Mathematical Methods for Applications	3(3-0-9)
MTH XXX Electives	3(3-0-9)
MTH XXX Electives	3(3-0-9)
Total	12(12-0-36)
<b>Second Semester</b>	<b>Credits</b>
MTH 741 Advanced Functional Analysis	3(3-0-9)
MTH XXX Electives	3(3-0-9)
MTH XXX Electives	3(3-0-9)
MTH XXX Electives	3(3-0-9)
Total	12(12-0-36)



# Faculty of Science

## Doctor of Philosophy Program in Applied Mathematics

### Second Year

#### First Semester

MTH 898 Dissertation

MTH 892 Seminar 1

Total

#### Credits

6(0-12-18)

1(0-2-3)

6(0-12-18)

#### Second Semester

#### Credits

MTH 898 Dissertation

6(0-12-18)

MTH 893 Seminar 2

1(0-2-3)

Total

6(0-12-18)

### Third Year

#### First Semester

#### Credits

MTH 898 Dissertation

9(0-18-27)

Total

9(0-18-27)

#### Second Semester

#### Credits

MTH 898 Dissertation

9(0-18-27)

Total

9(0-18-27)

### Forth Year

#### First Semester

#### Credits

MTH 898 Dissertation

9(0-18-27)

Total

9(0-18-27)

#### Second Semester

#### Credits

MTH 898 Dissertation

9(0-18-27)

Total

9(0-18-27)