

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

Applicant Qualifications

Plan 1.1

1. A candidate must hold a master's degree in mathematics, applied mathematics, physics or equivalent fields with a GPA of not less than 3.50, and
2. The candidate has publication and work experience.

Plan 1.2

1. A candidate must hold a bachelor's degree with honors in mathematics, applied mathematics, physics, environment science, or related fields and
2. The candidate has publication and work experience.

Plan 2.1

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. The candidate has publication and work experience.

Plan 2.2

1. A candidate must hold a bachelor's degree with honors in mathematics, applied mathematics, physics, environment science, or related fields or
2. The candidate has publication and work experience.

Other Qualifications

1. The candidate may be considered the program committee for admission.
2. The qualifications of applicants for admission to all study plans are in accordance with the regulations of the King Mongkut's University of Technology Thonburi on Graduate Studies, B.E.2562 (2019)

3. The candidate must submit the English Proficiency Test Score as part of their application according to the KMUTT announcement on the English Language Requirement for Doctoral Degree.

Professions after Graduation

1. Lecturer
2. Researcher, advisor analyst Consultant
3. Financial and Insurance Mathematician

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	3	Credits
● Elective Course	9	Credits
● Dissertation	36	Credits
Plan 2.2 for student with Bachelor degree		
● Major Course	15	Credits
● Elective Course	9	Credits
● Dissertation	48	Credits

COURSE STRUCTURE

Plan 1.1 for student with Master degree

First Year

First Semester	Credits
MTH 696 Mathematical Research Methodology	1(0-2-3) (S/U)
MTH 897 Dissertation	6(0-12-18)
Total	6(0-14-21)
Second Semester	Credits
MTH 892 Seminar for Graduate Students	1(0-2-3) (S/U)
MTH 897 Dissertation	6(0-12-18)
Total	6(0-14-21)

Second Year

First Semester	Credits
MTH 893 Seminar for Graduate Students	1(0-2-3) (S/U)
MTH 897 Dissertation	12(0-24-36)
Total	12(0-26-39)
Second Semester	Credits
MTH 894 Seminar for Graduate Students	1(0-2-3)
MTH 897 Dissertation	12(0-24-36)
Total	12(0-26-39)

Third Year

First Semester	Credits
MTH 897 Dissertation	6(0-12-18)
Total	6(0-12-18)
Second Semester	Credits
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 696 Mathematical Research Methodology	1(0-2-3) (S/U)
MTH 896 Dissertation	9(0-18-27)
Total	9(0-20-30)

Second Semester

Second Semester	Credits
MTH 892 Seminar for Graduate Students	1(0-2-3)
MTH 896 Dissertation	9(0-18-27)
Total	9(0-20-30)

Second Year

First Semester	Credits
MTH 893 Seminar for Graduate Students	1(0-2-3)
MTH 896 Dissertation	9(0-18-27)
Total	9(0-20-30)

Second Semester

Second Semester	Credits
MTH 894 Seminar for Graduate Students	1(0-2-3)
MTH 896 Dissertation	9(0-18-27)
Total	9(0-20-30)

Third Year

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

Second Semester

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 XXX Electives	3(3-0-9)
MTH XXX Electives	3(3-0-9)
Total	6(6-0-18)

Second Semester

Second Semester	Credits
MTH 696 Mathematical Research Methodology	1(0-2-3) (S/U)
MTH 741 Advanced Functional Analysis	3(3-0-9)
MTH 892 Seminar for Graduate Students	1(0-2-3) (S/U)
MTH XXX Electives	3(3-0-9)
Total	6(6-4-24)

Second Year

First Semester	Credits
MTH 893 Seminar for Graduate Students	1(0-2-3)
MTH 899 Dissertation	9(0-18-27)
Total	9(0-20-30)

Second Semester

Second Semester	Credits
MTH 894 Seminar for Graduate Students	1(0-2-3)
MTH 899 Dissertation	9(0-18-27)
Total	9(0-20-30)

Third Year

First Semester	Credits
MTH 899 Disserttion	9(0-18-27)
Total	9(0-18-27)
Second Semester	Credits
MTH 899 Dissertation	9(0-18-27)
Total	9(0-18-27)

Plan 2.2 for student with Bachelor degree

First Year

First Semester	Credits
MTH 641 Functional Analysis and Applications	3(3-0-9)
MTH 667 Numerical Methods for Differential Equations	3(3-0-9)
MTH XXX Electives	3(3-0-9)
MTH XXX Electives	3(3-0-9)
Total	12(12-0-36)

Second Semester

Second Semester	Credits
MTH 696 Mathematical Research Methodology	1(0-2-3) (S/U)
MTH 671 Mathematical Statistics	3(3-0-9)
MTH 741 Advanced Functional Analysis	3(3-0-9)
MTH 892 Seminar for Graduate Students	1(0-2-3) (S/U)
MTH XXX Electives	3(3-0-9)
Total	9(9-4-33)

Second Year

First Semester	Credits
MTH 640 Optimization	3(3-0-9)
MTH 893 Seminar for Graduate Students	1(0-2-3) (S/U)
MTH 898 Dissertation	6(0-12-18)
Total	9(3-14-30)

Second Semester	Credits
MTH 894 Seminar for Graduate Students	1(0-2-3)
MTH 898 Dissertation	6(0-12-18)
Total	6(0-14-21)

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)