Master & Doctor of Philosophy Programs in **Mathematics**

Research Fields

Analysis
Algebra
Topology
Discrete Mathematics
Optimization
Computational Mathematics

For more information,
please visit the following website.
www.math.science.cmu.ac.th

Master of Science Program in Mathematics

Type 2 (Plan A Type A2)

Degree Requirements	Total	a minimum of	38	credits
A. Coursework		**a minimum of**	**26**	**credits**
1. Graduate Courses		a minimum of	26	credits
1.1 Field of Specialization		a minimum of	26	credits
1.1.1 Required courses			11	credits

206713	Topology		3	credits
206720	Algebra		3	credits
206731	Real Analysis 1		3	credits
206791	Seminar in Mathematics 1		1	credits
206792	Seminar in Mathematics 2		1	credits

1.1.2 Elective courses		a minimum of	15	credits

Selects from graduate mathematics courses with an approval of the advisors.

Group 1 Algebra

206721	Theory of Finite Groups	3	credits
206722	Field Theory	3	credits
206723	Ring and Module Theory 1	3	credits
206724	Algebraic Semigroup Theory	3	credits
206725	Universal Algebra	3	credits

Group 2 Analysis

206730	Fixed Point Theory and Applications	3	credits
206732	Real Analysis 2	3	credits
206733	Complex Analysis	3	credits
206734	Functional Analysis	3	credits
206739	Banach Space Theory	3	credits
206771	Theory of Probability 1	3	credits
206772	Theory of Probability 2	3	credits
206773	Stochastic Processes and Applications	3	credits
206831	Convex Analysis	3	credits
206832	Variational Analysis	3	credits

Group 3 Discrete Mathematics

206729	Algebraic Graph Theory	3	credits
206736	Graph Theory and Applications	3	credits
206738	Combinatorics	3	credits

Group 4 Other subjects

206714	Algebraic Topology	3	credits
206735	Distribution Theory and Applications	3	credits
206743	Theory of Differential Equations	3	credits
206751	Advanced Numerical Analysis	3	credits
206783	Operational Research Techniques 1	3	credits
206789	Selected Topics in Mathematics	3	credits
219720	Matrix Analysis	3	credits
219731	Applied Analysis	3	credits
219741	Partial Differential Equations	3	credits
219753	Numerical Analysis	3	credits
219761	Mathematical Modeling	3	credits
219766	Mathematical Control Theory	3	credits
219768	Mathematics in Fluid Dynamics	3	credits
219781	Foundation of Optimization	3	credits
219789	Selected Topics in Applied Mathematics	3	credits

Or selects from grauate mathematics courses other than those listed above with an approval of the Graduate Program Executive Committee of the department

   1.2 Other courses   None

  2. Advanced Undergraduate Courses   None

B. Thesis

206799   Master's Thesis   12   credits

C. Non-credit Courses

    1. Graduate School requirement :   a foreign language

    2. Program requirement

A student who does not have sufficient background, may select any advanced course of undergraduate courses with an approval of the advisor.

D. Academic Activities

The whole or a part of the master's thesis work must be published or at least accepted to be published in a national journal listed in TCI Tier 1 database or appeared as a

full paper in international conference proceedings acceptable in the area or a national conference in Mathematics organized by the Mathematical Association of Thailand under the Patronage of His Majesty the King (Annual Meeting in Mathematics). The student must be the first author in at least one of the published works written in English.

Note : Course in the field of concentration are courses in graduate level in Mathematics (206...) and Applied Mathematics (219...)