

# Department of Mathematics

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The Department of Mathematics at Kyung Hee University offers graduate programs leading to the Master of Science and Doctor of Philosophy degrees. The purpose of the graduate program is to give students a good understanding of the broad outline of modern mathematics, to stimulate their interest in research, and to prepare them for later work either in pure and applied mathematics.

First established in 1959 as the Department of Mathematics and Physics, and reestablished as the Department of Mathematics in 1969, the Mathematics Department has been developed remarkably. The Master's and Doctoral programs have been offered since 1965 and 1969 respectively. Faculties in our department have produced very excellent research papers in highly qualified journals and maintained high standards.

## | Degree Requirements |

- At least 24 course units of graduate level credit in Mathematics courses are required for the master's degree and 60 course units for the doctoral degree(including units completed in master course).
- Students must pass qualifying examinations.
- Students must fulfill presentation, defense and document requirements for the Mathematics thesis.

## | Courses |

Number Theory, Algebra, Group Theory, Commutative Algebra, Algebraic Geometry, Rings and Modules, Topics in Algebra, Real Analysis, Functional Analysis, Complex Analysis, ODEs and Dynamical Systems, Partial Differential Equations, Harmonic Analysis, General Topology, Algebraic Topology, Differential Geometry, Differentiable Manifolds, Applied Mathematics, Numerical Analysis, Mathematical Statistics, Probability Theory, Topics in Stochastic Processes, Sequential Analysis, Thesis Research. etc.

## | Faculty |

- \_\_\_ Jongmin Han, Ph.D. Seoul National University, 2000, Professor, Analysis, jmhan@khu.ac.kr
- \_\_\_ Se-Goo Kim, Ph.D. Indiana University, 2001, Professor, Topology, sgkim@khu.ac.kr
- \_\_\_ Soojoon Lee, Ph.D. Seoul National University, 2002, Professor, Quantum computing/Information Theory, level@khu.ac.kr
- \_\_\_ Kyungwoo Song, Ph.D. Indiana University, 2002, Professor, Analysis, kysong@khu.ac.kr
- \_\_\_ Seungil Kim, Ph.D. Texas A&M University, 2009, Professor, Numerical Analysis, sikim@khu.ac.kr

- \_\_\_ Jong-Do Park, Ph.D. Seoul National University, 2005, Professor, Several Complex Variables, mathjdpark@khu.ac.kr
- \_\_\_ Ho Lee, Ph.D. Seoul National University, 2010, Professor, Analysis, holee@khu.ac.kr
- \_\_\_ Myungho Kim, Ph.D. Seoul National University, 2012, Professor, Representation Theory, mkim@khu.ac.kr
- \_\_\_ Sang June Lee, Ph.D. Emory University, 2012, Professor, Combinatorics, sjlee242@khu.ac.kr
- \_\_\_ Hyoseon Yang, Ph.D. Ewha Woman's University, 2017, Associate Professor, hyoseon@khu.ac.kr
- \_\_\_ Chang Yong Han, Ph.D. Seoul National University, 2002, Professor, Applied Differential Geometry, cyhan@khu.ac.kr
- \_\_\_ Hyea Hyun Kim, Ph.D. KAIST 2004, Professor, Numerical Analysis, hhkim@khu.ac.kr
- \_\_\_ Sun Mi Lee, Ph.D. UCLA 2005, Professor, Biomathematics, sunmilee@khu.ac.kr
- \_\_\_ Kyungsoo Kim, Ph.D. KAIST 2003, Professor, Numerical Analysis/Biomechanics, kyungsoo@khu.ac.kr
- \_\_\_ Jeong San Kim, Ph.D. Seoul National University, 2006, Professor, Quantum Computing/Information Theory, freddie1@khu.ac.kr
- \_\_\_ Sun Ho Choi, Ph.D. Seoul National University, 2011, Professor, Biomathematics/Applied Mathematics, sunhochoi@khu.ac.kr
- \_\_\_ Jun Kee Jeon, Ph.D. Seoul National University, 2016, Associate Professor, Financial Mathematics, junkeejeon@khu.ac.kr
- \_\_\_ Junpyo Park, Ph.D. Kyungpook National University, 2014, Associate Professor, Dynamics and Chaos, junpyopark@khu.ac.kr
- \_\_\_ Jeongho Kim, Seoul National University, 2019, Assistant Professor, jeonghokim@khu.ac.kr