

Course Detail

Master of Science Program in Pharmacology

Course Title:	Master of Science Program in Pharmacology (International Program)
Master Degree:	Master of Science (Pharmacology) M.Sc. (Pharmacology)
Academic Institution:	Department of Pharmacology, Faculty of Medicine, Khon Kaen University
Duration:	2 years (July 2022 – July 2024)

Background and Rational:

The graduate program in Pharmacology has commenced since 1991. The program has supplied highly qualified academics to place in various academic institutes and business bodies around the country. The program emphasizes graduates to be knowledgeable in drug and chemical actions on biological systems and develops acritical thinking with life-long self-directed learning.

Objectives:

The course expects the **MSc** students acquire knowledge in drug and chemical actions and capability in performing research in pharmacology and related fields and create high-quality research.

Course Synopsis and Methodology:

a. Master's Degree:

- i. Complete an English Proficiency
- ii. Pass Thesis defense
- iii. At least one publication in international or Thailand Citation Index journal (TCI) the publication or proceeding
- iv. At least one research presentation (oral/poster) in a scientific conference.

Plan 1: At least two publications in 1 international publication and 1 TCI or 2 in international publications

Plan 2: At least one international publication

Course Content

Study Programs

Master Degree Program in Pharmacology

Plan A 1 Thesis work only with no less than 36 credits, but some course works without credit count, or activities may be prescribed to students by the program.

Plan A 2 Thesis work of no less than 12 credits and course works of no less than 24 credits consisting of molecular biology, physiology, pharmacology, research methodology laboratory techniques, and other relevant elective modules.

Course Title for Master Degree Program in Pharmacology

1) Plan A 1

MD667 898 Thesis	36 credits
MD667 891 (366 891) Seminar in Pharmacology I	(audit)
MD667 892 (366 892) Seminar in Pharmacology II	(audit)

2) Plan A 2

MD667 899 Thesis	12 credits
Core Modules	11 credits minimum
Elective Modules	13 credits minimum
Total	36 credits minimum

A. Core Modules Is the main subject that students are required to enroll these modules of no less than 11 credits along with the recommendation of the program committee, consisting of the following courses

MD567 712 Cells and Molecular biology	3(3-0-6)
MD567 714 Medical Science Research Methodology	3(2-3-6)
MD667 722 Advanced Pharmacology	3(3-0-6)
MD667 891 Seminar in Pharmacology I	1(1-0-2)
MD667 892 Seminar in Pharmacology II	1(1-0-2)
XXX XXX Others with recommended from the program's curriculum committee	

B. Elective Modules is a subject that students are required to enroll in according to the recommendations of the program committee and the suggestion of the main advisor. Students must choose to register for not less than 13 credits.

MD567 713 Laboratory Techniques in Medical Sciences	2(0-6-3)
MD587 703 Neuropharmacology	3(3-0-6)
MD587 704 Neurotoxicology	1(1-0-2)
MD627 701 Infection and Immunity	4(4-0-8)
MD627 732 Bioinformatics	2(1-3-4)
MD637 703 Basic Laboratory skills in Medical Biochemistry and Molecular Biology	2(0-6-3)
MD637 716 Applied Biotechnology in Medicine	2(2-0-4)
MD637 718 Advanced Techniques in Medical Biochemistry and Molecular Biology	2(0-6-3)
MD667 713 Clinical Pharmacology	2(2-0-4)
MD667 721 Advanced Cancer Therapy	2(2-0-4)
MD667 723 Omics Technology in Medicine	1(1-0-2)
MD667 724 Pharmacogenomics and Precision Medicine	1(1-0-2)
MD667 725 Cardiovascular Pharmacology	2(2-0-4)
MD667 726 Free Radicals in Biological Sciences	2(2-0-4)
MD667 727 Xenobiotic Metabolism	2(2-0-4)
MD667 728 Molecular Pharmacology	2(2-0-4)
MD667 731 Pharmacology I	3(3-0-6)
MD667 732 Pharmacology II	3(3-0-6)
MD677 703 Physiology for Health Sciences Students	3(3-0-6)
MDXXX XXX Others with recommended from the program's curriculum committee	

Applicant Qualifications:

Master degree Program

Applicant must hold a Bachelor of Science or equivalent qualification with the GPA of 2.5 or above.

Document Required:

- Transcript
- English test (please follow the KKU-English qualification for admission)
- Recommendation Letter

Contact:

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***The application procedure will complete when TICA has received the hard copy of the application form and other related documents through the Royal Thai Embassy/Permanent Mission of Thailand to the United Nations/Royal Thai Consulate – General accredited to eligible countries/territories.