

G R A D U A T E P R O G R A M S

FACULTY OF PHARMACEUTICAL SCIENCES KHON KAEN UNIVERSITY



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Message from Dean

Associate Professor. Paiboon Daosodsai, Ph.D.

The Faculty of Pharmaceutical Sciences of Khon Kaen University is one of the leading pharmaceutical institution in Northeast Region of Thailand with international importance in educational and research fields. In 2020, the faculty is in 201st – 250th in QS World University Rankings by Subject 2020 (Pharmacy and Pharmacology). Our missions are to produce qualified graduates with the advanced scientific knowledge and rich academic experience to maintain high quality research and to create new innovations and products.

Quickly developing and progressing changes in the international trends of pharmaceutical profession require the wide diapason of knowledge and integration of practical experience and research knowledge. Our pharmacy school ensure high quality graduate education that incorporates innovative aspects of educational training and research. The varieties of graduate programs in pharmaceutical sciences enable graduates to find the expertise field of their interest providing with an excellent foundation for the academic and professional career.

The Faculty of Pharmaceutical Sciences is internationally opened place. Every year we accept and graduate international students in different fields of pharmaceutical expertise. We ensure high standard research facilities with the equipped according to the laboratory standards work places and provide new laboratory equipment for conduction of research. We also provide a high-quality professional knowledge and supportive community to base a clinical practice. After graduation, many of our international graduate students bring obtained knowledge and skills back to their home countries, standing out with their affirming international perspective and strong sense of self. We highly support this trend and strive for its development in the future.

I would like to invite you to join the graduate program at our faculty and become a part of our family.

Assoc. Prof. Dr. Paiboon Daosodsai Dean, Faculty of Pharmaceutical Sciences, KKU

Master ofPharmacy Program **in Clinical Pharmacy Program**







Master of Pharmacy Program in Clinical Pharmacy

Faculty of Pharmaceutical Sciences General information



Program

Master of Pharmacy Program in Clinical Pharmacy

• Degree

M.Pharm. (Clinical Pharmacy)

Total credits

≥ 36 credits (2 year program)

• Study plan

1) Type A1 Thesis only

2) Type A2 Course work and thesis

• Language (Mode of teaching) Thai and English

• Future career after graduation

- (1) Hospital pharmacist
- (2)Community pharmacist
- (3)Instructor
- (4) Researcher

• Program structure

	Program structure	
	Type A1	Type A2
1) Compulsory	4*	14
2) Electives	-	10
3) Thesis	36	12
Total credits	36	36

*Compulsory for Type A1 (audit)

Code	Course	Credit
PS317 711	Research Methodology in Pharmacy Practice	3(3-0-6)
PS317 891	Seminar in Clinical Pharmacy	1(1-0-2)

Compulsory for Type A2

Code	Course	Credit
PS317 711	Research Methodology in Pharmacy Practice	3(3-0-6)
PS317 712	Advanced Pharmacotherapeutics	4(4-0-8)
PS317 713	Clinical Pharmacy Clerkship for Graduate I	3(0-18-9)
PS317 714	Clinical Pharmacy Clerkship for Graduate II	3(0-18-9)
PS317 891	Seminar in Clinical Pharmacy	1(1-0-2)

Electives for Type A2

Code	Course	Credit
PS357 830	Quality Control of Products	3(2-3-6)
PS317 831	Therapeutic Drug Monitoring	2(1-3-2)
PS317 832	Clinical Drug Information System	2(1-3-2)
PS317 833	Clinical Drug Use Evaluation	2(1-3-2)
PS317 834	Adverse Drug Reaction Monitoring	2(1-3-2)
PS317 835	Advanced Biopharmaceutics and Pharmacokine	etics 2(2-0-4)

PS317 836	Clinical Research Design	2(2-0-4)
PS317 837	Communication Skills in Pharmacy Practice	2(1-3-2)
PS317 838	New Drug and Novel Concepts	2(2-0-4)
PS317 839	Literature Evaluation in Medical Sciences	2(2-0-4)
PS317 840	Advanced Pharmacoepidemiology	2(1-3-2)
PS317 841	Management in Pharmacy Practice	2(2-0-4)
PS317 842	Integrative Cardiovascular Pharmacology	2(2-0-4)
PS317 843	Good Pharmacy Practice in Community Pharmacy	2(1-3-2)
PS317 844	Current Issues of Pharmaceutical Care in Community Pharmacy	2(1-3-2)
PS317 845	Pharmaceutical Care in Primary Care Unit	2(1-3-2)
PS317 846	Advanced Palliative Care	2(1-3-2)
PS317 847	Trends of Pharmacotherapy in Infectious Diseases	2(1-3-2)
PS317 848	Pharmaceutical Care for Patients with Chronic Diseases	2(1-3-2)
PS317 849	Selected Topics in Clinical Pharmacy	2(1-3-2)

Thesis

Code		Course	Credit
PS317 898	Thesis		36 credits
PS317 899	Thesis		12 credits

Example of Study Plan

Year 1, Semester 1		Credits	
		Type A1	Type A2
PS317 711	Research Methodology in Pharmacy Practice	3(3-0-6)	3(3-0-6)
PS317 712	Advanced Pharmacotherapeutics	-	4(4-0-8)
PS317 713	Clinical Pharmacy Clerkship for Graduate I	-	3(0-18-9)
PS317 898	Thesis	9	-
	Total credits	12	10
	Accumulate credits	9	10

Year 1, Seme	ear 1, Semester 2 Credits		edits
		Type A1	Type A2
PS317 714	Clinical Pharmacy Clerkship for Graduate II	-	3(0-18-9)
PS317 891	Seminar in Clinical Pharmacy	1(1-0-2)	1(1-0-2)
PS317 xxx	Elective Courses	-	6
PS317 898	Thesis	9	-
	Total credits	10	10
	Accumulate credits	18	20

Year 2, Seme	ar 2, Semester 1 Credits		edits
		Type A1	Type A2
PS317 xxx	Elective Courses	-	6
PS317 898	Thesis	9	-
PS317 899	Thesis	-	4
	Total credits	9	10
	Accumulate credits	27	30

Year 2, Seme	ester 2	Credits	
		Type A1	Type A2
PS387 898	Thesis	9	-
PS387 899	Thesis	-	6
	Total credits	9	6
	Accumulate credits	36	36

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Course description

wastes, case studies

PS357 830	Quality Control of Health Products	3(2-3-6)
	Prerequisite : No	

Quality control of drugs, dietary supplements, cosmetics and herbal products; national and international standards and regulations; quality control of raw materials; stability and contamination of the products

PS357 833	Instrumental Analysis	4(2-6-8)
	Prerequisite : No	

Techniques of high technology instruments quantitative and qualitative analysis; UV-visible spectrometry, spectrofluorometry, atomic absorption and emission spectrometry, electrochemical, chromatographic mehod and flow injection analysis

P\$357 834	Spectroscopic Method for Structure Elucidation	2(2-0-4)
	Prerequisite : No	

Structure elucidation of organic compounds by spectroscopy ultraviolet-visible spectrometry, Infrared-spectroscopy, Mass spectrometry, Nuclear magnetic resonance spectrometry, interpretation of spectra.

PS357 841	Biological Evaluation	2(1-3-4)
	Prerequisite : No	
	Important of biological evaluation; conventional assessment of biological activ	/ity, modern
concept and me	ethod in biological evaluation, selection criteria for biological evaluation me	thodologies;
method develop	ment in biological evaluation, saftety and precautions in biological laboratory, t	treatment of

PS357 842	Medicinal Plant Tissue Culture	2(1-3-4)
	Prerequisite : No	
	Basic principles and technique of plant tissue culture, composition, storage, s	election, and

preparation of nutrient media, control of the appropriate conditions for tissue culture, application of genetic engineering for improvement of plant tissue culture

PS387 811	Advance Thai Traditional Medicine	3(2-3-6)
	Prerequisite : No	
-	Medicinal plant constituents and their pharmacological activities; relationsl stes, active ingredients and indications; interaction between crude drug in That between herbal drug and modern drug; factor affecting stability of modern dru	ai traditional
PS387 812	Technical Academic Communication	2(2-0-4)
	Prerequisite : No	
articles with rel	Significance of specific communication in social/academic field, effective pre- ntation of projects and articles mainly by writing and speech, communicat lated procedures, including thesis and other writing followed the curriculum s ts with respect to those projects	ion through
PS387 813	Research Methodology in Thai Traditional Pharmacy	2(1-3-4)
	Prerequisite : No	
proposal and re	Process of research in Thai traditional pharmacy; types of research; resear are review; objective setting; statistics used in the research, research ethic esearch plan; data processing, data analysis and writing research report	s; research
P\$387 832	Crude Drugs Specification	2(1-3-4)
chemical profile	Prerequisite : No Herbal drug specification and pharmacognostic profiles, chemical profiles a es; monograph of crude drugs in various pharmacopoeias	nd physico-
PS387 834	Pre-Clinical and Clinical Study of Herbal Drug	2(2-0-4)
	Prerequisite : No	
to quality of her	Information necessary for pre-clinical and clinical study of herbal drugs, fac rbal products, guideline and proposal writing for pre-clinical and clinical study of	
P\$387 837	Botanical Biotechnoloby	2(2-0-4)
	Prerequisite : No	
systematic, plar	DNA and basic techniques in nolecular biology, plant bioinformatics, plant authentication, plant genetic engineering	nt molecular

PS387 839	Research from Traditional and Indigenous Resources	3(2-3-6)
	Prerequisite : No	
	Traditional and indigenous knowledge, method for retrieving traditional, research	methodology
and research q	uestion development, involving traditional and indigenous knowledge	
PS387 840	Formulation and Industrial Thai Traditional Pharmacy	3(2-3-6)
	Prerequisite : No	
	Dosage forms, principle and methods of drug formulation, preparation	techniques,
stability evaluatio	on, industrial production and marketing strategy of Thai traditional medicine	
PS387 891	Seminar in Thai Traditional Pharmacy I	1(1-0-3)
	Prerequisite : No	
	Selection, review and evaluation of literature on Thai traditional pharmac	cy, including
presentation, dis	scussion, report and teamwork skills	
PS387 892	Seminar in Thai Traditional Pharmacy II	1(1-0-3)
	Prerequisite : No	
	Selection, review and evaluation of literature on Thai traditional pharmac	cy, including
presentation, dis	scussion in English and teamwork skills	
PS387 898	Thesis	36 credits
	Prerequisite : Permission from program committee	

Research in Thai traditional Pharmacy emphasis on the self procedure of data analysis and synthesis including literature review, experimental design, planning, experimentation, compiling, interpretation, discussion and suggestion, reporting, presentation and publication ethics.

PS387 899	Thesis	12 credits
	Prerequisite : Permission from program committee	
	Research in Thai traditional pharmacy through the skill improvement pro	ncesses and

Research in Thai traditional pharmacy through the skill improvement processes and essential basic research methodologies including literature review, experimental design, planning, experimentation, compiling, interpretation, discussion and suggestion, reporting, presentation and publication ethics.











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