



DOCTOR OF PHILOSOPHY PROGRAM IN PHARMACEUTICAL SCIENCES

■ FACULTY OF PHARMACEUTICAL SCIENCES

DOCTOR OF PHILOSOPHY PROGRAM IN PHARMACEUTICAL SCIENCES

Pharmaceutical Sciences is a problem-solving discipline concerned with the discovery, design, mechanism, and use of drugs.

The doctoral program at Naresuan University focuses on the two hs: “Herbal and Health.” Research endeavors directly target drug development, how drugs work, determination of their properties, and dosages and delivery systems with the least diverse effects on the users, including cosmetic sciences and pharmaceutical outcomes.

Our Faculty is proud to be the first in Thailand to initiate the Pharm.D program, a six year study, emphasizing clinical skills of pharmaceutical care. All students are required to acquire general professional practice and seven clerkship rotations in hospitals, pharmacies, and public health centers for at least 2,000 hours.

For those interested in discovery, problem-solving, and cutting-edge research in one of the foremost scientific and medical environments, Naresuan University Faculty of Pharmaceutical Sciences is your choice.



Objectives

Graduates of the Doctoral Program in Pharmaceutical Sciences are expected to possess the following attributes:

- Competency as a researcher in discovering new knowledge in Pharmaceutical Sciences.
- Possessing in–depth knowledge, understanding, and concepts so as to interrelate significant elements in research and development.
- Capability in transferring pharmaceutical knowledge in conjunction with quantitative analysis and ICT in research endeavors.
- Mastery of self–study and continuous learning.
- An ethical researcher.

Admission

In accordance with the Graduate School Rules and Regulations. The program committee reserves the rights to require more qualifications as deemed appropriate.

Medium of Instruction

Thai and English



Research Focus

1. Pharmaceutical Technology
 - 1.1 Drug Delivery System
 - 1.2 Nanotechnology
 - 1.3 Biomaterials for Regenerative Medicine
2. Cosmetic Science
 - 2.1 Product Development
 - 2.2 New Active Ingredients from Thai Herbs
 - 2.3 Efficacy & Safety Evaluation
3. Pharmaceutical Chemistry
 - 3.1 New Drugs from Thai Herbs
 - 3.2 Analytical Development
4. Pharmacology & Molecular Biology
5. Toxicology
6. Pharmacy Practice
 - 6.1 Smoking
 - 6.2 Rational Drug Use
 - 6.3 Outcome Research
 - 6.4 Social and Administrative Pharmacy

Requirement for Graduation

In accordance with the Graduate School Rules and Regulations.

Doctor of Philosophy Program in Pharmaceutical Sciences

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Structure of the Program

1. Credit Requirements.*

Requirement	Option 1.1	Option 1.2
Coursework	-	-
Core Courses	-	-
Electives	-	-
Required Non-credit Courses	2	2
Dissertation	48	72
Total	48	72

*Minimum credits required.

2. Core Course

-

3. Electives

-

4. Required Non-credit Course.

Requirements	Option 1.1		Option 1.2	
	Course No.	Credits	Course No.	Credits
Seminar I	159807	1	159807	1
Seminar II	159808	1	159808	1
Total	2	2	2	2

5. Dissertation Credit Requirements.

Requirements	Option 1.1		Option 1.2	
	Course No.	Credits	Course No.	Credits
Dissertation I, Type 1.1	159801	2	-	-
Dissertation II, Type 1.1	159802	11	-	-
Dissertation III, Type 1.1	159803	11	-	-
Dissertation IV, Type 1.1	159804	11	-	-
Dissertation V, Type 1.1	159805	11	-	-
Dissertation VI, Type 1.1	159806	2	-	-
Dissertation I, Type 1.2	-	-	159891	3
Dissertation II, Type 1.2	-	-	159892	11
Dissertation III, Type 1.2	-	-	159893	11
Dissertation IV, Type 1.2	-	-	159894	11
Dissertation V, Type 1.2	-	-	159895	11
Dissertation VI, Type 1.2	-	-	159896	11
Dissertation VII, Type 1.2	-	-	159897	11
Dissertation VIII, Type 1.2	-	-	159898	3
Total	6	48	8	72

Course Descriptions

Plan 1.1 for Master degree graduate, not less than 48 credits

159801 Dissertation I, Option 1.1 2 Credits

Extensively reviewing the literature related to the research, preparing a draft research proposal including research topic, objectives, research problem statement, rational experimental designs, and presenting a progress report in English.

159802 Dissertation II, Option 1.1 11 Credits

Preparing a completed original research proposal comprising details of all research components and presenting a progress report in English.

159803 Dissertation III, Option 1.1 11 Credits

Conducting the preliminary experiment, collecting and analysing initial data, and presenting a progress report in English.

159804 Dissertation IV, Option 1.1 11 Credits

Intensively focusing on research, and collecting and analysing research data, presenting a progress report in English, and publicizing research work.

159805 Dissertation V, Option 1.1 11 Credits

Intensively focusing on research, collecting and analyzing ongoing research data, and presenting a progress report in English.

159806 Dissertation VI, Option 1.1 2 Credits

Preparing, defending, and submitting the completed dissertation in English to the graduate school.

159807 Seminar I**1 Credits**

Present and actively participate in oral academic presentations of their topic of interest.

159808 Seminar II**1 Credits**

Present and actively participate in oral academic presentations of their research progress and development.

Plan 1.2 for Bachelor degree graduate, not less than 72 credits**159891 Dissertation I, Option 1.2****3 Credits**

Extensively reviewing the literature related to the research, preparing a draft research proposal including research topic, objectives, research problem statement and rational experimental designs, and presenting a progress report in English.

159892 Dissertation II, Option 1.2**11 Credits**

Preparing a draft original research proposal and presenting a progress report in English.

159893 Dissertation III, Option 1.2**11 Credits**

Designing appropriate tools, conducting experiments, and presenting a progress report in English.

159894 Dissertation IV, Option 1.2**11 Credits**

Preparing a completed original research proposal comprising details of all research components, conducting preliminary research, analyzing preliminary experiment results, and presenting a progress report in English.

159895 Dissertation V, Option 1.2**11 Credits**

Conducting research experiments, collecting and analyzing preliminary experiment results, and presenting a progress report in English.

159896 Dissertation VI, Option 1.2**11 Credits**

Intensively focusing on research, collecting and analysing research data, presenting a progress report in English, and publicizing research work.

159897 Dissertation VII, Option 1.2**11 Credits**

Intensively focusing on research, collecting and analyzing ongoing research data, and presenting a progress report in English.

159898 Dissertation VIII, Option 1.2**3 Credits**

Preparing, defending, and submitting the completed dissertation in English to the graduate school.