

Admission Number

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Master of Science Programme in Pharmaceutical Chemistry and Phytochemistry

(International Programme)

หลักสูตร วิทยาศาสตร์มหาบัณฑิต สาขาวิชา เภสัชเคมีและพฤกษเคมี (หลักสูตรนานาชาติ)(ภาคปกติ)

Faculty of Pharmacy

คณะเภสัชศาสตร์

Expected number of students to be accepted year round : 7 Students

There are two major concentrations

1. Pharmaceutical Chemistry (แขนงเภสัชเคมี)
2. Phytochemistry (แขนงพฤกษเคมี)

Admission Requirements

A candidate must:

1. hold a degree or be studying in the final year of Bachelor's Degree in Health Science or other related fields of study such as Chemistry, Microbiology, Biology, Biotechnology.
2. have a minimum grade point average of 2.75;
3. have a TOEFL score of at least 480, TOEFL computer-based score of 157, TOEFL Internet-based score of 54, or IELTS score of 4.5 or pass the English Proficiency Examination arranged by the Faculty of Graduate Studies.

Those who do not have any of the test scores specified above will have to take the English Proficiency Examination of the Faculty of Graduate Studies on the specified examination day.

4. In case your qualification does not match to the admission criteria, candidates must prior attach A Requesting Form for Examination" approved by the program director. The form must be submitted before making the application. Kindly download here:
http://www.grad.mahidol.ac.th/grad/admission/form_th.php

Written Examination (Pharmaceutical Chemistry)

(Applicants must attend the examination date accurately to your admission round.)

<u>First Round</u> January 17, 2015		<u>Second Round</u> May 16, 2015	
Subjects for examination	Time	Subjects for examination	Time
1. English	8.30 - 11.30 a.m.	1. English	8.30 - 11.30 a.m.
2. General Knowledge	11.30 - 12.30 p.m.	2. General Knowledge	11.30 - 12.30 p.m.
3. Pharmaceutical Chemistry	1.30 - 4.30 p.m.	3. Pharmaceutical Chemistry	1.30 - 4.30 p.m.

Examination Place
Mahidol University , Salaya , Nakhonpathom more details : www.grad.mahidol.ac.th or Announcement at Faculty of Graduate Studies branches.

Written Examination (Phytochemistry)

(Applicants must attend the examination date accurately to your admission round.)

<u>First Round</u> January 17, 2015		<u>Second Round</u> May 16, 2015	
Subjects for examination	Time	Subjects for examination	Time
1. English	8.30 - 11.30 a.m.	1. English	8.30 - 11.30 a.m.
2. General Knowledge	11.30 - 12.30 p.m.	2. General Knowledge	11.30 - 12.30 p.m.
3. Phytochemistry	1.30 - 4.30 p.m.	3. Phytochemistry	1.30 - 4.30 p.m.

Examination Place
Mahidol University , Salaya , Nakhonpathom more details : www.grad.mahidol.ac.th or Announcement at Faculty of Graduate Studies branches.

Curriculum Structure

	Credit
Required Courses	19
Elective Courses	6
Thesis	12

	Credit
Required Courses	
PYPC 659 Instrumental Analysis Laboratory	3(1-6-4)
PYPC 660 Organic Medicinal Chemistry	3(2-3-5)
PYPG 669 Basis of Structure Elucidation	3(3-0-6)
PYPG 667 Phytochemistry	3(3-0-6)
PYPP 600 Seminar in Pharmaceutical Chemistry and Phytochemistry I	1(1-0-2)
PYPP 601 Seminar in Pharmaceutical Chemistry and Phytochemistry II	1(1-0-2)
PYID 685 Research Methodology in Pharmacy I	2(2-0-4)
GRID 603 Biostatistics	3(3-0-6)
Elective Courses	
PYPC 639 Advanced Pharmaceutical analysis I	3(2-3-5)
PYPC 640 Advanced Pharmaceutical Analysis II	3(2-3-5)
PYPC 650 Reactions in Pharmaceutical Analysis	3(2-3-5)
PYPC 651 Stability of Pharmaceuticals	3(2-3-5)
PYPC 652 Chemistry of Heterocyclic Drugs	3(2-3-5)
PYPC 656 Chemometrics in Pharmaceutical Chemistry	3(2-3-5)
PYPC 657 Drug Design I	3(2-3-5)
PYPC 658 Drug Design II	3(2-3-5)
PYPC 662 Advanced Organic Pharmaceutical Chemistry	3(2-3-5)
PYPC 663 Radiopharmaceutical Chemistry	3(3-0-6)
PYPG 651 Pharmaceutical Phytochemistry I	3(2-3-5)
PYPG 652 Pharmaceutical Phytochemistry II	3(2-3-5)
PYPG 657 Separation Technique	3(2-3-5)
PYPG 658 Biosynthesis of Natural Products	3(2-3-5)
PYPG 664 Nuclear Magnetic Resonance Spectroscopy	3(3-0-6)
PYPG 665 Phytopharmacy	2(2-0-4)
PYPG 670 Development of Medicinal Plants I	3(2-3-5)
PYPG 671 Development of Medicinal Plants II	3(2-3-5)
PYPG 668 Applications of Plant Biotechnology	3(3-0-6)
PYPB 601 Traditional Thai Medicine	3(3-0-6)
PYPB 604 Medical Ethnobotany	3(2-3-5)

			Credit
PYPB	607	Development of Herbal Medicine	3(2-3-5)
PYPP	602	Special Problems in Pharmaceutical Chemistry and Phytochemistry	2(0-6-2)
PYID	695	Applied Plant Biotechnology in Pharmaceutical Sciences	3(2-3-5)
SCID	500	Cell and Molecular Biology	3(3-0-6)
Thesis			
PYID	698	Thesis .	12(0-36-0)
* These may change in cases where there are suggestions for the improvement of the curriculum			

Details of Scholarships

Scholarship of the 60th Year of the Supreme Reign of His Majesty King Bhumibol Adulyadej.

Application Process

Application is only available via online application at www.grad.mahidol.ac.th

Required Documents

Prepare the following required documents to submit via online admission system or post :

- Four (2) recent photographs (1x1 inch in size)
- A copy of an applicant's degree certificate or a letter of graduation certification 2 copies
(for an applicant with a degree completion)
- A letter certifying that an applicant is currently in the final year prior to graduation 2 copies
(for an applicant seeking for a degree)
- A detailed transcript of a degree (for an applicant with a degree completion) 2 copies
- A grade report with course names and grades received from the first to the current 2 copies
semester prior to graduation
- A copy of identification card 2 copies
- A copy of house registration certification 2 copies
- A copy of Certificate of English score: TOEFL/IELTS/MU-Test (if any). See detail here: 2 copies
http://www.grad.mahidol.ac.th/grad/academicinfo/engstandard2553_th.php
Those who early submit a valid English score prior to the examination will be exempt
from English test on the examination date.
- A copy of proof of payment.

Submitting documents via online admission system.

- All documents must be in pdf format (maximum size 2 MB)
- Recent photograph must be in jpeg format only (maximum size 2 MB)

Job option after graduation

A researcher/academician in the fields of drug development, quality control of pharmaceutical product and natural material in public/private research institutions or drug and medical product company.

**Further information may be obtained from the Director of Graduate Studies,
Phytochemistry :**

1. **Assoc.Prof. Dr. Weena Jiratchariyakul (E-mail : weena.jir@mahidol.ac.th)**
Room 508, Rajaratana Building, Floor 5,
Department of Pharmacognosy, Faculty of Pharmacy.
Tel: 0 2644 8677-91 Ext : 5530,5531,5523 Fax: 0 2644 8701

Pharmaceuticals Chemistry:

1. **Lect. Jutarat Pimthon (E-mail : jutarat.pim@mahidol.ac.th)**
Rajaratana Building, Floor 4,
Department of Pharmaceutical Chemistry, Faculty of Pharmacy.
Tel: 0 2644 8677-91 Ext : 5402 Fax: 0 2644 8695

Program Coordinator

Mr. Ithipol Ithiamnuaypan (E-mail : ithipol.ith@mahidol.ac.th)
Room 508, Rajaratana Building, Floor 5,
Department of Pharmacognosy, Faculty of Pharmacy.
Tel: 0 2644 8677-91 Ext : 5530-1 Fax: 0 2644 8701

Note 1. For more education information : www.grad.mahidol.ac.th

**For more information please contact The Student Admission Section.
Tel . 0 2441 4125 ext. 208-210 , 0 2441 9129, E-mail : gradthai@mahidol.ac.th**