

Admission Number

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**Master of Science in Pharmacy Programme in Pharmaceutical Chemistry and Pharmaceutical  
Phytochemistry (International Programme)**

หลักสูตร เกษศาสตรมหาบัณฑิต

สาขาวิชา เกษเคมีและเภสัชพิษเคมี(หลักสูตรนานาชาติ)(ภาคปกติ)

**Faculty of Pharmacy**

คณะเภสัชศาสตร์

**Expected number of students to be accepted year round : 20 Students**

**Admission Requirements**

**Plan A 1**

**candidates must :**

1. Be graduated or are studying in the final year in pharmacy at bachelor degree level from institutions that are endorsed by the Higher Education Commission
2. Have a minimum grade point average of 2.75 ;
3. Have research experience in related fields for at least 3 years or have national/international publications in accredited journals.
4. Submit a certificate of English proficiency with minimum admission score:
  - IELTS - at least 3 or
  - TOEFL INTERNET BASED - at least 32 or
  - TOEFL ITP (test arranged by Faculty of Graduate Study, Mahidol University) - at least 400 or
  - MU GRAD TEST (COMPUTER BASED) - at least 36

**Important Notes:**

- English proficiency score must be taken within 2 years up to the admission date.
  - Application without submitting a valid English certificate will NOT be considered.
  - MU English Competence Standards: [www.grad.mahidol.ac.th](http://www.grad.mahidol.ac.th)
  - MU English proficiency tests, please contact the Language Center, Faculty of Graduate Studies. Tel. 0-2441-4125 ext. 221-222
5. Exemption from the above conditions may be granted by the Programme Committee under exceptional circumstances.

**Plan A 2**

1. Be graduated or are studying in the final year in pharmacy at bachelor degree level from institutions that are endorsed by the Higher Education Commission
2. Have a minimum grade point average of 2.50 ;
3. Submit a certificate of English proficiency with minimum admission score:
  - IELTS - at least 3 or
  - TOEFL INTERNET BASED - at least 32 or
  - TOEFL ITP (test arranged by Faculty of Graduate Study, Mahidol University) - at least 400 or
  - MU GRAD TEST (COMPUTER BASED) - at least 36

**Important Notes:**

- English proficiency score must be taken within 2 years up to the admission date.
  - Application without submitting a valid English certificate will NOT be considered.
  - MU English Competence Standards: [www.grad.mahidol.ac.th](http://www.grad.mahidol.ac.th)
  - MU English proficiency tests, please contact the Language Center, Faculty of Graduate Studies. Tel. 0-2441-4125 ext. 221-222
4. Exemption from the above conditions may be granted by the Programme Committee under exceptional circumstances.

**Written Examination** (Applicants must attend the examination date accurately to your admission round)

Subjects for examination	Time (Morning session)
1. Pharmaceutical Chemistry and Pharmaceutical Phytochemistry	9.00 - 12.00 a.m.
<b>Examination Place</b> Mahidol University , Salaya , Nakhon Pathom more details : <a href="http://www.grad.mahidol.ac.th">www.grad.mahidol.ac.th</a>	

**Curriculum Structure**

	Plan A 1	Plan A 2
Required Courses	-	16
Elective Courses no less than	-	8
Thesis	36	12

	Credit
<b>Required Courses</b>	
*PYID 685 Research Methodology in Pharmacy I	2(2-0-4)
*PYID 670 Seminar in Pharmaceutical Chemistry and Pharmaceutical Phytochemistry I	1(1-0-2)
*PYID 671 Seminar in Pharmaceutical Chemistry and Pharmaceutical Phytochemistry II	1(1-0-2)
PYPG 651 Pharmaceutical Phytochemistry I	3(2-3-5)
PYPG 652 Pharmaceutical Phytochemistry II	3(2-3-5)
PYPC 657 Drug Design I	3(2-3-5)
PYPC 639 Advanced Pharmaceutical Analysis I	3(2-3-5)
<i>*For students Plan A1 have to enroll in non credit and evaluated by "AU" (Credit).</i>	

## Elective Courses

### *\*New courses*

GRID	603	Biostatistics	3(3-0-6)
PYPC	658	Drug Design II	3(2-3-5)
PYPC	640	Advanced Pharmaceutical Analysis II	3(2-3-5)
PYPC	650	Chemical 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	662	Advanced Organic Pharmaceutical Chemistry	3(2-3-5)
*PYPC	663	Computer-aided Drug Design and Development	3(2-3-5)
PYPG	649	Development of Medicinal Plants I	3(2-3-5)
PYPG	650	Development of Medicinal Plants II	3(2-3-5)
PYPG	657	Separation Techniques	3(2-3-5)
PYPG	664	Nuclear Magnetic Resonance Spectroscopy	3(3-0-6)
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)
PYPB	607	Development of Herbal Medicine	3(2-3-5)
PYID	695	Applied Plant Biotechnology in Pharmaceutical Sciences	3(2-3-5)

### **Thesis (Plan A1)**

PYID	798	Thesis	36(0-108-0)
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### **Thesis (Plan A2)**

PYID	698	Thesis	12(0-36-0)
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**\* These may change in cases where there are suggestions for the improvement of the curriculum**

## Additional advantages of the programme

The graduates will be knowledgeable and skillful in researches in the areas of pharmaceutical and pharmaceutical phytochemistry for development of synthetic and natural product drug quality.

Plan A1 (non-course work) program is added.

## Detail Other

The applicants should have strong background in both chemistry and botany

## Application Process

Application is only available via online application at [www.grad.mahidol.ac.th](http://www.grad.mahidol.ac.th)

## Required Documents

Applicants must upload all documents via online admission system. All documents must be in PDF format (maximum size 2 MB). Photograph must be in JPEG format

- Recent photographs (1x1 inch in size)
- A copy of an applicant's degree certificate or a letter of graduation certification (for an applicant with a degree completion)

- A letter certifying that an applicant is currently in the final year prior to graduation (for an applicant seeking for a degree)
- A detailed transcript of a degree (for an applicant with a degree completion)
- A grade report with course names and grades received from the first to the current semester prior to graduation
- A copy of identification card
- A copy of house registration certification
- A copy of a medical license
- A copy of a work experience certifying letter
- A copy of Certificate of English proficiency :  
IELTS / TOEFL INTERNET BASED / TOEFL ITP / MU GRAD TEST(COMPUTER BASED)
- A copy of proof of payment.

#### **Job option after graduation**

1. Scholar in a university
2. Researcher
3. Industrial pharmacist
4. Hospital pharmacist
5. Pharmacist in Food and Drug Administration

**Further information may be obtained from the Director of Graduate Studies,  
Pharmaceutical Chemistry and Pharmaceutical Phytochemistry**

**1. Assoc. Prof. Dr. Jiraporn Ungwitayatorn (E-mail : [jiraporn.ung@mahidol.ac.th](mailto:jiraporn.ung@mahidol.ac.th))**

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#### **Program Coordinator**

**1. Mrs. Chitralada Hemintraporn (E-mail : [chitlada.hem@mahidol.ac.th](mailto:chitlada.hem@mahidol.ac.th))**

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**Note** 1. For more education information : [www.grad.mahidol.ac.th](http://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](mailto:gradthai@mahidol.ac.th)**