

Admission Number

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Master of Science in Pharmacy Programme in Pharmaceutics (International Programme)

หลักสูตร เภสัชศาสตรมหาบัณฑิต

สาขาวิชา เภสัชการ (หลักสูตรนานาชาติ)(ภาคปกติ)

Faculty of Pharmacy

คณะเภสัชศาสตร์

Expected number of students to be accepted year round : 2 Students

หลักสูตรเปิดสอน 2 แผนกวิชา คือ

- Pharmaceutical Technology (แขนงเภสัชกรรมเทคโนโลยี)

- Industrial Pharmacy (แขนงเภสัชอุตสาหกรรม)

(ให้ผู้สมัครเลือกแขนงวิชาที่สนใจสมัคร โดยระบุลงในใบสมัคร)

#### Admission Requirements

candidates must :

1. hold a Bachelor's degree in Pharmacy and meet the requirements set by the Faculty of Graduate Studies;
2. have a minimum grade point average of 3.00;
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. For those who already hold a valid English score, please submit its certificate along with all application documents.

#### Curriculum Structure

|                  | Credit |
|------------------|--------|
| Required Courses | 17     |
| Elective Courses | 8      |
| Thesis           | 12     |

|  | Credit   |
|--|----------|
| <b>Required Courses</b>                                    |          |
| GRID 603 Biostatistics                                     | 3(3-0-6) |
| PYID 685 Research Methodology in Pharmacy I                | 2(2-0-4) |
| PYMP 641 Instrumental Research Techniques in Pharmaceutics | 1(0-3-1) |
| PYMP 642 Advanced Industrial Pharmacy I                    | 3(2-3-5) |
| PYPT 601 Seminar in Pharmaceutics I                        | 1(1-0-2) |
| PYPT 602 Seminar in Pharmaceutics II                       | 1(1-0-2) |
| PYPY 601 Advanced Biopharmaceutics                         | 3(3-0-6) |
| PYPY 660 Advanced Pharmaceutics I                          | 3(3-0-6) |

**Elective Courses**

|      |     |   |          |
|------|-----|---|----------|
| PYPY | 619 | Advanced Pharmacokinetics                   | 3(3-0-6) |
| PYPY | 661 | Advanced Pharmaceutics II                   | 3(3-0-6) |
| PYPY | 662 | Cosmeceutical Sciences                      | 3(2-3-5) |
| PYPY | 663 | Pharmaceutical Product Development I        | 3(2-3-5) |
| PYPT | 603 | Special Problems in Pharmaceutics           | 2(0-6-2) |
| PYMP | 640 | Industrial Administration                   | 2(2-0-4) |
| PYMP | 643 | Advanced Industrial Pharmacy II             | 3(2-3-5) |
| PYMP | 644 | Unit Operations in Pharmacy                 | 2(2-0-4) |
| PYMP | 645 | Manufacturing Process Analytical Technology | 2(2-0-4) |
| PYMP | 646 | Pharmaceutical Product Development II       | 3(2-3-5) |
| PYMP | 647 | Manufacture of Natural Products             | 2(2-0-4) |

**Thesis**

|      |     |        |            |
|------|-----|--------|------------|
| PYID | 698 | Thesis | 12(0-36-0) |
|------|-----|--------|------------|

\* These may change in cases where there are suggestions for the improvement of the curriculum

**Areas of study that a student may select for concentration:****1. Pharmaceutical Technology**

- Development of Controlled Release Delivery Systems
- Nanotechnology in Drug Delivery : Nanoparticles, Liposomes, Microemulsion, Nanoemulsion
- Drug Stability and Chemical Kinetics
- Transdermal Drug Delivery
- Efficacy Evaluation of Topical Products
- Development of Pharmaceuticals and Cosmetic Products and Natural Products
- Novel Drug Delivery Systems: Bioavailability and Efficacy Evaluations
- Pharmacokinetics and Biopharmaceutics

**2. Industrial Pharmacy**

- Physicochemical Properties of Pharmaceutical Solids
- Formulation and Manufacture of Pharmaceutical Dosage Forms
- Pharmaceutical Processing and Control
- Controlled Release and Novel Drug Delivery Systems
- Dissolution and Bioavailability of Pharmaceutical Dosage Forms

**Additional advantages of the programme**

Readiness of equipments and research facilities, scholarships and cooperation with leading pharmaceutical manufacturers and international academic institutions. An excellent research in pharmaceutical formulations, drug delivery systems, pharmaceutical technology and industrial pharmacy.

**Details of Scholarships**

1. Scholarship of the 60<sup>th</sup> Year of the Supreme Reign of His Majesty King Bhumibol Adulyadej.
2. MUPY Postgraduate Scholarship.
3. Research assistantship.

### **Additional information for applicants**

1. Please specify the field of study in the application form
  - 1.1. Pharmaceutical Technology.
  - 1.2. Industrial Pharmacy.

### **Application Process**

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

### **Required Documents**

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

- Two (2) 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) 2 copies
- A letter certifying that an applicant is currently in the final year prior to graduation (for an applicant seeking for a degree) 2 copies
- 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 semester prior to graduation 2 copies
- A copy of identification card 2 copies
- A copy of house registration certification 2 copies
- A copy of a medical license 2 copies
- A copy of Certificate of English score: TOEFL/IELTS/MU-Test (if any). See detail here: [http://www.grad.mahidol.ac.th/grad/academicinfo/engstandard2553\\_th.php](http://www.grad.mahidol.ac.th/grad/academicinfo/engstandard2553_th.php) 2 copies
- 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**

1. R & D pharmacists / researchers
2. Manufacturing & Quality assurance pharmacists
3. University lecturer

Further information may be obtained from the Director of Graduate Studies,  
Pharmaceutics - Pharmaceutical Technology :

1. Dr. Anchalee Jintapattanakit (E-mail : [anchalee.jin@mahidol.ac.th](mailto:anchalee.jin@mahidol.ac.th))

Rajaratana Building, Floor3, Department of Pharmacy, Faculty of Pharmacy.

Tel: 0 2644 8677 - 91 Ext. 5744

Fax: 0 2644 8694

Pharmaceutics - Industrial Pharmacy :

2. Assoc. Prof. Dr. Satit Puttipipatkachorn (E-mail : [satit.put@mahidol.ac.th](mailto:satit.put@mahidol.ac.th))

Rajaratana Building, Floor 2, Department of Manufacturing Pharmacy, Faculty of Pharmacy.

Tel: 0 2644 8677 - 91 Ext. 1201,5701

Fax: 0 2644 8702

**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)