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

Faculty of Pharmacy

There are two major concentrations
- Pharmaceutical Technology
- Industrial Pharmacy

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 2.50;
3. have a TOEFL ITP score of at least 480, TOEFL Internet-based score of 54 or IELTS score of 5 or MU GRAD TEST score of 60.

Exemption from the above conditions may be granted by the Programme Committee under exceptional circumstances.

Curriculum Structure

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit</th>
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<td>Required Courses</td>
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<tr>
<td>GRID 603</td>
<td>Biostatistics</td>
<td>3(3-0-6)</td>
</tr>
<tr>
<td>PYID 685</td>
<td>Research Methodology in Pharmacy I</td>
<td>2(2-0-4)</td>
</tr>
<tr>
<td>PYMP 641</td>
<td>Instrumental Research Techniques in Pharmaceutics</td>
<td>1(0-3-1)</td>
</tr>
<tr>
<td>PYMP 642</td>
<td>Advanced Industrial Pharmacy I</td>
<td>3(2-3-5)</td>
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<tr>
<td>PYPT 601</td>
<td>Seminar in Pharmaceutics I</td>
<td>1(1-0-2)</td>
</tr>
<tr>
<td>PYPT 602</td>
<td>Seminar in Pharmaceutics II</td>
<td>1(1-0-2)</td>
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<tr>
<td>PYPY 601</td>
<td>Advanced Biopharmaceutics</td>
<td>3(3-0-6)</td>
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<td>PYPY 660</td>
<td>Advanced Pharmaceutics I</td>
<td>3(3-0-6)</td>
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<tr>
<td>Elective Courses</td>
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<tr>
<td>PYPY 619</td>
<td>Advanced Pharmacokinetcs</td>
<td>3(3-0-6)</td>
</tr>
<tr>
<td>PYPY 661</td>
<td>Advanced Pharmaceutics II</td>
<td>3(3-0-6)</td>
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<td>PYPY 662</td>
<td>Cosmeceutical Sciences</td>
<td>3(2-3-5)</td>
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<tr>
<td>PYPY 663</td>
<td>Pharmaceutical Product Development I</td>
<td>3(2-3-5)</td>
</tr>
<tr>
<td>PYPT 603</td>
<td>Special Problems in Pharmaceutics</td>
<td>2(0-6-2)</td>
</tr>
<tr>
<td>PYMP 640</td>
<td>Industrial Administration</td>
<td>2(2-0-4)</td>
</tr>
<tr>
<td>PYMP 643</td>
<td>Advanced Industrial Pharmacy II</td>
<td>3(2-3-5)</td>
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</table>
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 Characterization of Pharmaceutical Solids
   - Development of Pharmaceutical Excipients
   - Pharmaceutical Product Development: Solid and Sterile Dosage Forms
   - Sustained and Controlled Release Dosage Forms
   - Novel and Targeted Drug Delivery Systems
   - Pharmaceutical Quality Assurance
   - Pharmaceutical Engineering
   - Pharmaceutical Manufacturing Science and Technology
   - Dissolution, Bioavailability and Bioequivalence Studies of Pharmaceutical Products

**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. Research and Researcher for Industry (RRI) Scholarship
2. Thailand Graduate Institute of Science and Technology (TGIST) Scholarship
3. Research Assistantship
4. MUPY Postgraduate Scholarship
5. Scholarship of the 60th Year of the Supreme Reign of His Majesty King Bhumibol Adulyadej.

**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

Required Documents

Prepare the following required documents to submit via online admission system or post:
1. Completed an Online Application at www.grad.mahidol.ac.th which comprised with
    Form A: Application Form
    Form B: Background and Proposed Field of Study
    Form C: Recommendation Forms (directly submitted by at least 2 referees)
2. Two copies of Degree Certificate (with officially certified English translation)
3. Two copies of Academic Transcript (with officially certified English translation)
4. Two copies of Recent Photos (Passport size)
5. Two copies of Passport
6. Two copies of English certificate (TOEFL/ IELTS/ MU-Grad Test)

(For Doctoral Program)
- TOEFL ITP score of at least 500, TOEFL Internet-based score of 61, or IELTS score of 5

(For Master's Program)
- TOEFL ITP score of at least 480, TOEFL Internet-based score of 54, IELTS score of 5 or MU GRAD TEST score of 60.

Notes
- Only accept TOEFL ITP score from examination center arranged by Faculty of Graduate Studies, Mahidol University.
- TOEFL ITP taken from other domestic and overseas institutes are invalid.
- The test date must be within previous 2 years before application date
- Applicant who obtained a valid English score must submit an official score certificate along with your application. Otherwise, your English score will not be considered.
7. Two copies of Curriculum Vitae
8. Two copies of Statement of Purposes and Career Goals
9. Two copies of Current bank statement / Scholarship letter (if any)
10. Two copies of Concept paper / research proposal (recommended for all applicants)
11. Two copies of additional documents may be requested by each program (such as letter of work experience / professional license/ related certificates and awards)

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)
   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 Puttipipatkhachom (E-mail: 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

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