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Doctor of Philosophy Programme in Pharmaceutics (International Programme)

Faculty of Pharmacy

Admission Requirements

A candidate must:

1. Hold a Master's degree in Pharmacy or related fields or a Bachelor's degree in Pharmacy with honors;
2. Have a grade point average of at least 3.50;
3. Meet the admission requirements of the Faculty of Graduate Studies;
4. Has to submit an abstract of 1-3 pages concerning the performed research or the proposed research topic 2 days before the interview (e-mail : surunchana.kae@mahidol.ac.th).
The interview will start with a 40- minute slide or powerpoint presentation by an applicant.
5. Have a TOEFL ITP score of at least 500, TOEFL Internet-based score of 61 or IELTS score of 5 .

Exemptions from the above conditions may be granted by the Doctoral Programme Committee and the Dean of the Faculty of Graduate Studies.

Curriculum Structure

Plan 2	Credit
For students with Master's degree	
Required Courses	6
Elective Courses no less than	6
Dissertation	36
For students with Bachelor's degree	
Required Courses	23
Elective Courses no less than	12
Dissertation	48

Plan 2	Credit
Required Courses	
For student with Master's degree	
PYPY 616 Drug Delivery Systems	3(3-0-6)

PYMP 632 Theoretical Aspects of Solid Dosage Forms	3(3-0-6)
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For students with Bachelor's degree

GRID 603 Biostatistics	3(3-0-6)
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PYID 685 Research Methodology in Pharmacy I	2(2-0-4)
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PYMP 641 Instrumental Research Techniques in Pharmaceutics	1(0-3-1)
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PYPT 601 Seminar in Pharmaceutics I	1(1-0-2)
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PYPT 602 Seminar in Pharmaceutics II	1(1-0-2)
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PYPY 601 Advanced Biopharmaceutics	3(3-0-6)
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PYPY 660 Advanced Pharmaceutics I	3(3-0-6)
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PYMP 642 Advanced Industrial Pharmacy I	3(2-3-5)
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PYPY 616 Drug Delivery Systems	3(3-0-6)
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PYMP 632 Theoretical Aspects of Solid Dosage Forms	3(3-0-6)
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Electives Courses

For student with Master's degree no less than 6 Credit

For students with Bachelor's degree no less than 12 Credit

PYPY 617 Transdermal Drug Delivery System	2(2-0-4)
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PYPY 619 Advanced Pharmacokinetics	3(3-0-6)
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PYPY 661 Advanced Pharmaceutics II	3(3-0-6)
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PYPY 662 Cosmeceutical Sciences	3(2-3-5)
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PYPY 663 Pharmaceutical Product Development I	3(2-3-5)
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PYPY 664 Molecular Pharmaceutics	3(3-0-6)
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PYPY 665 Nanotechnology in Drug Delivery	2(2-0-4)
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PYPT 603 Special Problems in Pharmaceutics	2(0-6-2)
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PYMP 633 Stability of Solid Dosage Forms	2(2-0-4)
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PYMP 634 Manufacture of Sustained Release Pharmaceuticals	3(3-0-6)
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PYMP 635 Packaging of Pharmaceuticals	2(2-0-4)
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PYMP 640 Industrial Administration	2(2-0-4)
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PYMP 641 Polymer Sciences in Pharmaceutics	3(3-0-6)
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PYMP 642 Nasal and Pulmonary Drug Delivery	2(2-0-4)
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PYMP 643 Advanced Industrial Pharmacy II	3(2-3-5)
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PYMP 644 Unit Operations in Pharmacy	2(2-0-4)
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PYMP 645 Manufacturing Process Analytical Technology	2(2-0-4)
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PYMP 646 Pharmaceutical Product Development II	3(2-3-5)
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PYMP 647 Manufacture of Natural Products

2(2-0-4)

Dissertation

PYID 699 Dissertation

36/48(0-108/144-0)

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

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

Additional information for applicants

1. Areas of study that a student may select for concentration

1.1 Pharmaceutics

Pharmaceutical Technology

- Development of Controlled Release Delivery Systems
- Nanotechnology in Drug Delivery : Nanoparticles, Liposomes, Micro emulsion, 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

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

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.
 - Detail of English Competency Standard for Admission:
<http://www.grad.mahidol.ac.th/en/current-students/language-center.php>
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, Floor 3, Department of Pharmacy, Faculty of Pharmacy.

Tel: 0 2644 8677 - 91 Ext. 5744

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Pharmaceutics - Industrial Pharmacy :

2. Assoc. Prof. Dr. Satit Puttipatkhachorn (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**