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Doctor of Philosophy Programme in Medical Technology (International Programme)

หลักสูตร ปรัชญาดุษฎีบัณฑิต สาขาวิชา เทคโนโลยีการแพทย์ (หลักสูตรนานาชาติ) (ภาคปกติ)

Faculty of Medical Technology

คณะเทคโนโลยีการแพทย์

Expected number of students to be accepted all year round : 15 Students

Admission Requirements

Ph.D. by research only

A candidate must:

1. have a Bachelor's degree in Science (Medical Technology) or other related sciences with honors or a Master's degree in Science (Medical Technology) or other related sciences with a minimum grade point average of 3.5;
2. Submit a certificate of English proficiency with minimum admission score:
 - IELTS - at least 4.5 or
 - TOEFL INTERNET BASED - at least 32 or
 - TOEFL ITP (test arranged by Faculty of Graduate Study, Mahidol University) - at least 400

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
 - MU English proficiency tests, please contact the Language Center, Faculty of Graduate Studies. Tel. 0-2441-4125 ext. 221-222
3. Exemption from the above conditions may be granted by the Programme Committee under exceptional circumstances.

Ph.D. by course work and research

A candidate must :

1. have a M.Sc. in Medical Technology or other related field with a minimum grade point average of 3.50 ; or a B.Sc. in Medical Technology or other related fields with exceptional qualities (with honors);
2. Submit a certificate of English proficiency with minimum admission score:
 - IELTS - at least 4.5 or
 - TOEFL INTERNET BASED - at least 32 or
 - TOEFL ITP (test arranged by Faculty of Graduate Study, Mahidol University) - at least 400

Important Notes:

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

Subjects for examination	Time (Morning session)
1. Mathematics 2. General Science	} 9.00 - 11.00 a.m.
Examination Place Mahidol University , Salaya , Nakhonpathom more details : www.grad.mahidol.ac.th	

Curriculum Structure

**Credit
Plan 1**

holding a Bachelor's degree in Science (Medical Technology) or in other related sciences with honors.

Thesis 72

holding a Master's degree in Med. Tech. or in other related sciences with GPA not less than 3.5.

Thesis 48

Plan 2

holding a Master's degree in Med. Tech. or in other related sciences for less than 5 years

Required courses 6

Elective courses no less than 6

Thesis 36

holding a Master's degree in Med. Tech. or in other related sciences for longer than 5 years

Required courses 10

Elective courses no less than 15

Thesis 36

holding a Bachelor's degree in Med. Tech. or in other related sciences

Required courses	10
Elective courses no less than	15
Thesis	48

Credit**Required Courses****For Bachelor's degree**

SCID 500 Cell and Molecular Biology	3(3-0-6)
MTID 601 Clinical Laboratory Administration	2(1-2-3)
MTID 605 Research Methodology	3(2-2-5)
MTID 613 Advanced Seminar	2(2-0-4)

holding a Master's degree in Med. Tech. or in other related sciences for longer than 5 years

SCID 500 Cell and Molecular Biology	3(3-0-6)
MTID 601 Clinical Laboratory Administration	2(1-2-3)
MTID 605 Research Methodology	3(2-2-5)
MTID 613 Advanced Seminar	2(2-0-4)

holding a Master's degree in Med. Tech. or in other related sciences for less than 5 years

MTID 604 Selected Topic in Medical Technology	2(2-0-4)
MTID 608 Current Diagnostic Technology and Future Trends	2(2-0-4)
MTID 613 Advanced Seminar	2(2-0-4)

Elective Courses

MTID 506 Design and Construction of Basic Clinical Laboratory Instrument	4(1-6-5)
MTID 513 Digital Electronics	2(1-2-3)
MTID 515 Clinical Laboratory Science	3(3-0-6)
MTID 606 Current Technology in Molecular Biology	2(2-0-4)
MTID 607 Internship in Medical Technology Laboratory	5(0-15-5)
MTID 609 Research and Technology Management	2(2-0-4)
MTID 610 Independent Selected Topics in Applied and Biomedical Technology	1(1-0-2)
MTID 611 Population Health and Community Medical Technology	3(2-2-5)
MTID 612 Bioinformatics and Community Health	2(1-2-3)
MTCH 601 Advanced Clinical Chemistry	4(3-2-7)
MTCH 607 Advanced Clinical Toxicology	2(1-2-3)

MTCH 609 Clinical Nutrition	1(1-0-2)
MTCH 610 Experimental Methods and Instruments in Clinical Chemistry	2(1-2-3)
MTCH 611 Medical Molecular Genetics	2(2-0-4)
MTCH 612 Selected Topics in Clinical Chemistry	1(1-0-2)
MTCH 613 Biosensors in Clinical Chemistry	1(1-0-2)
MTMS 502 Current Topics in Hematology	2(2-0-4)
MTMS 605 Blood Bank Techniques and Immunohematology	2(1-2-3)
MTMS 609 Advanced Clinical Microscopy	4(2-4-6)
MTMS 612 Advanced Medical Genetics	2(2-0-4)
MTMI 601 Advanced Clinical Microbiology	3(2-2-5)
MTMI 604 Current Methods in Clinical Immunology	2(1-2-3)
MTMI 606 Current Methods in Clinical Microbiology	2(1-2-3)
MTMI 608 Enzymes and Microbial Products	1(1-0-2)
MTMI 614 Advance in Antimicrobial Agents and Drug Resistance	1(1-0-2)
MTMI 610 Selected Topics in Molecular Microbiology	1(1-0-2)
MTMI 611 Cells and Tissue Culture Techniques	1(0-2-1)
MTMI 612 Selected Topics in Food Microbiology	1(1-0-2)
MTMI 613 Independent Selected Topics in Microbiology	1(1-0-2)
MTPR 606 Selected Topics in Medical Parasitology and Medical Entomology	2(2-0-4)

Thesis

Plan 1

For Master's degree

MTID 898 Dissertation	48(0-192-0)
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For Bachelor's degree

MTID 899 Dissertation	72(0-288-0)
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Plan 2

For Master's degree

MTID 699 Dissertation	36(0-144-0)
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For Bachelor's degree

MTID 799 Dissertation	48(0-192-0)
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*** These May Change in Cases Where There are Suggestions for The Improvement of The Curriculum Concept Paper Presentation**

For foreign applicants who apply through the Internet from abroad.

Additional advantages of the programme

The Doctor of Philosophy Programme in Medical Technology of the Faculty of Medical Technology provides advanced courses and researches in a broad range of disciplines in medical technology and related sciences. The Faculty collaborates with leading universities and institutions both nationally and internationally. Almost all of the students have the opportunity to take some courseworks or part of their researches at overseas collaborating institutions.

Details of Scholarships

1. Scholarship of the 60th Year Supreme Reign of His Majesty King Bhumibol Adulyadej.
2. Funding from the Oversea Collaborative Institutions and other international agencies.
3. Grants from Commission on Higher Education.
4. Graduate Scholarship of the Faculty of Medical Technology, Mahidol University.
5. Other Funding from the Faculty of Graduate Studies, Mahidol University.

Application Process

Application is only available via online application at 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 Certificate of English proficiency : IELTS / TOEFL INTERNET BASED / TOEFL ITP
- A copy of proof of payment.

Job option after graduation

1. Lecturer in the Universities and Institutions those related to Sciences and Technologies.
2. Researchers in both public and private sector.

Further information may be obtained from the Director of Graduate Studies, Medical Technology :

1. **Prof. Dr. Chartchalerm Isarankura Na Ayudhya (E-mail :chartchalerm.isa@mahidol.ac.th)**

Room 805-806 , Science and Technology Building, Floor 8,
Department of Clinical Microbiology and Applied Technology
Faculty of Medical Technology, Mahidol University, Salaya
Tel. : 0 2441 4378 Fax. : 0 2441 4380

2. **Lecturer Dr. Moltira Promkan (E-mail :moltira.pro@mahidol.ac.th)**

Room 725, Science and Technology Building ,Floor7 ,
Department of Clinical Microscopy
Faculty of Medical Technology, Mahidol University, Salaya
Tel. : 0 24414371-8 ext. 2724 Fax. : 0 2441 4380

Program Coordinator

Mrs.Jaroonsri Boonruang (E-mail : jaroonsri.boon@mahidol.ac.th)

Room 824, Science and Technology Building, Floor 8 , Education
Faculty of Medical Technology, Mahidol University, Salaya
Tel. : 02 441 4371-8 ext.2840 Fax. : 02 441 4380

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**