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Doctor of Philosophy Programme in Medical Technology (International Programme)

Faculty of Medical Technology

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. 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 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. 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 Programme Committee under exceptional circumstances.

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)
For Bachelor's degree	
MTID 899 Dissertation	72(0-288-0)
Plan 2	
For Master's degree	
MTID 699 Dissertation	36(0-144-0)
For Bachelor's degree	
MTID 799 Dissertation	48(0-192-0)

* 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 course works 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

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. 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)**

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Program Coordinator

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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**