Master of Science Programme in Medical Technology (International Programme)

หลักสูตร วิทยาศาสตรมหาบัณฑิต   สาขาวิชา เทคนิคการแพทย์(หลักสูตรนานาชาติ)(ภาคปกติ)

Faculty of Medical Technology

คณะเทคนิคการแพทย์

Expected number of students to be accepted all year round : 20 Students

Admission Requirements

For M.Sc. by research and course work

A candidate must:

1. hold a Bachelor's degree in Medical Technology or Radiological Technology with a minimum grade point average of 2.50; or

2. hold a Bachelor's degree and in related field and have published an article in the field of Medical Technology or Radiological Technology and with a minimum grade point average of 2.50; or

3. be a final year student in one of the two above mentioned programs with a minimum grade point average of 2.50;

4. 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.

   Those who do not have any of the test scores specified above will have to take the English Proficiency Examination of the Faculty of Graduate studies on the specified examination day.

5. In case your qualification does not match to the admission criteria, candidates must prior attach A Requesting Form for Examination" approved by the program director. The form must be submitted before making the application. Kindly download here:

   http://www.grad.mahidol.ac.th/grad/admission/form_th.php

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

For M.Sc. by research only

A candidate must :

1. hold a Bachelor's degree in Medical Technology or a Radiological Technology degree with honors or a minimum grade point average of 3.25;

2. have experience working in a clinical laboratory, or similar, for at least 1 year;

3. have published at least one research publication in a well accepted academic journal;

4. 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.

   Those who do not have any of the test scores specified above will have to take the English Proficiency Examination of the Faculty of Graduate studies on the specified examination day.

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

First Round January 17, 2015		Second Round May 16, 2015	
Subjects for examination	Time	Subjects for examination	Time
1. English	8.30 - 11.30 a.m.	1. English	8.30 - 11.30 a.m.
2. General Knowledge	11.30 - 12.30 p.m.	2. General Knowledge	11.30 - 12.30 p.m.

Examination Place

Mahidol University , Salaya , Nakhonpathom more details : www.grad.mahidol.ac.th or Announcement at Faculty of Graduate Studies branches.

Curriculum Structure

	Credit
Plan A(1)	
Courses Work	-
Thesis	36
Plan A(2)	
Required Courses	10
Elective Courses no less than	14
Thesis	12

	Credit
Required Courses	
SCID 500 Cell and Molecular Biology	3(3-0-6)
MTID 601 Clinical Laboratory Administration	2(1-2-3)
MTID 602 Seminar	2(2-0-4)
MTID 605 Research Methodology	3(2-2-5)

Elective Courses

Course	Credits
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	
MTID 798 Thesis	36(0-144-0)
MTID 698 Thesis	12(0-48-0)
* These May Change in Cases Where There are Suggestions for The Improvement of The Curriculum	

Concept Paper Presentation

For foreign from abroad to send proposal with.

Additional advantages of the programme

The goals of M.Sc. Medical Technology are to encourage the student for admiring knowledge achievement, self-study and research in the broad areas of medical and biological sciences. The faculty has a broad spectrum of expertise and provides training opportunities in a wide rang of disciplines. These include hematology, clinical microbiology, virology, immunology, clinical biochemistry, host-parasite interactions, free radicals in biology, regulation of gene expression, molecular biology, medical laboratory equipment, data mining and biomedical informatics, and imaging technology.

Details of Scholarships

1. Scholarship of the 60th Year Supreme Reign of His Majesty King Bhumibol Adulyadej.

2. Graduate Scholarships of the Faculty of Medical Technology, Mahidol University.

3. 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 :

- Two (2) recent photographs (1x1 inch in size)

- A copy of an applicant's degree certificate or a letter of graduation certification   2 copies
  (for an applicant with a degree completion)

- A letter certifying that an applicant is currently in the final year prior to graduation   2 copies
  (for an applicant seeking for a degree)

- 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   2 copies
  semester prior to graduation

- A copy of identification card   2 copies

- A copy of house registration certification   2 copies

- A copy of Certificate of English score: TOEFL/IELTS/MU-Test (if any). See detail here: 2 copies
  http://www.grad.mahidol.ac.th/grad/academicinfo/engstandard2553_th.php
  Those who early submit a valid English score prior to the examination will be exempt
  from English test on the examination date.

- A copy of proof of payment.

Submitting documents via online admission system.

- All documents must be in <u>pdf format</u> (maximum size 2 MB)
- Recent photograph must be in <u>jpeg format</u> only (maximum size 2 MB)

Job option after graduation

1. Public and private researchers.
2. Management Company / Organization-related sciences.

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

1. **Asst.Prof.Dr.Chotiros Plabplueng   (Email : chotiros.pla@mahidol.ac.th)**
   Room 725, Science and Technology Building, Floor 7,
   Center for Innovation Development and Technology Transfer,
   Faculty of Medical Technology, Mahidol University, Salaya
   Tel.   : 02 441 4371-8 ext.2724 Fax.   : 02 441 4380

2. **Lect.Dr. Moltira Promkan   (Email : moltira.pro@mahidol.ac.th)**
   Room 725, Science and Technology Building, Floor 7,
   Department of Clinical Microscopy,
   Faculty of Medical Technology, Mahidol University, Salaya
   Tel.   : 02 441 4371-8 ext.2724 Fax.   : 02 441 4380

Program Coordinator

   Mrs.Jaroonsri Boonruang   (E-mail : jaroonsri.boo@mahidol.ac.th)
   Room 825, Science and Technology Building, Floor 8, Education Office,
   Faculty of Medical Technology, Mahidol University, Salaya
   Tel.   : 02 441 4371-8 ext.2843 Fax.   : 02 441 4380

<u>Note</u>   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