

Admission Number

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Doctor of Philosophy Programme in Translational Medicine (International Programme)

หลักสูตร ปรัชญาดุษฎีบัณฑิต

สาขาวิชา เวชศาสตร์ปริวรรต (หลักสูตรนานาชาติ) (ภาคปกติ)

Faculty of Medicine Ramathibodi Hospital

คณะแพทยศาสตร์โรงพยาบาลรามาธิบดี

Expected number of Students to be accepted year round : 3 Students

Admission Requirements

A Candidate Must :

1. Candidate with the Bachelor's degree :-

- 1.1 who has graduated or are studying in the final year of Bachelor's degree courses in Biology, Health Science, or those who has graduated with Bachelor's degree in Pharmacology, Veterinary medicine or with other majors from the institutes acknowledge by Office of the Higher Education Commission and must hold a GPA of over 3.25
- 1.2 who has graduated with Bachelor's degree in Medicine, Dentistry from the institutes acknowledged by Office of the Higher Education Commission or those who are studying under The medical scholars program of schools medicine or dentistry, and must hold a GPA of over 3.00
- 1.3 have a TOEFL score of at least 500, TOEFL computer-based score of 173, TOEFL Internet-based score of 61, or IELTS score of 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.
- 1.4 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
Exceptions from the above conditions may be granted by the Programme Committee and the Dean of Faculty of Graduate Studies;

2. Candidate with the Master's degree :-

- 2.1 who has graduated with Master's degree in Biology or Health Science
- 2.2 have a minimum grade point average of 3.50 ;
- 2.3 have a TOEFL score of at least 500, TOEFL computer-based score of 173, TOEFL Internet-based score of 61, or IELTS score of 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.
- 2.4 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
Exceptions from the above conditions may be granted by the Programme Committee and the Dean of Faculty of Graduate Studies;

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

<u>First Round</u> January 17, 2015		<u>Second Round</u> 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
For students with Bachelor's Degree in	
Required courses	15
Elective courses not less than	9
Dissertation	48
For students with Master's Degree	
Required courses	15
Elective courses not less than	5
Dissertation	36

	Credit
Required Courses	
RATM 501 Molecular Mechanisms of Human Diseases	2(2-0-4)
RATM 502 Biomedical Research Technology	2(2-0-4)
RATM 503 Clinical Epidemiology and Biostatistics	3(3-0-6)
RATM 504 Observation and Analysis of Clinical Problems	2(0-4-2)
RATM 505 Research Skills and Laboratory Safety	2(0-4-2)
RATM 506 Critical Analysis of Biomedical and Translational Medical Research	1(0-2-1)
RATM 507 Seminars in Biomedical and Translational Medicine	1(0-2-1)
SCID 502 Cell Science	2(2-0-4)
Elective Courses	
SCID 500 Cell and Molecular Biology	3(3-0-6)
SCID 503 Systemic Bioscience	3(3-0-6)
SCID 506 Concept of Molecular Biosciences	2(2-0-4)
SCID 507 Microscopic Techniques	1(0-2-1)
SCID 508 Biomolecular and Spectroscopy Techniques	1(0-2-1)
SCID 509 Separation Techniques	1(0-2-1)

SCID	510	Immunological Methods	1(0-2-1)
SCID	511	Gene Technology	1(0-2-1)
SCID	512	Receptor Binding and Enzyme Kinetic Assays	1(0-2-1)
SCID	513	Animal Cell Culture Techniques	1(0-2-1)
SCID	514	Animal Experimentation in Biomedical Research	1(0-2-1)
SCID	516	Biostatistics	3(3-0-6)
SCID	518	Generic Skills in Science Research	1(1-0-2)
SCMI	602	Advanced Immunology	3(3-0-6)
SCMI	603	Advanced Parasitology	3(3-0-6)
SCMI	604	Advanced Virology	3(3-0-6)
SCPA	601	Cellular Pathology I	2(2-0-4)
SCPM	508	Special Topics in Pharmacology	2(2-0-4)
SCPM	611	Advanced Pharmacology	3(3-0-6)
SCPS	612	Current Topics in Cell Physiology	3(3-0-6)
SCPS	631	Systems Physiology	4(3-2-7)
SCTX	604	Molecular Toxicology and Genetic	2(2-0-4)
Dissertation			
For students with Master's Degree			
RATM	699	Dissertation	36(0-108-0)
For students with Bachelor's Degree			
RATM	799	Dissertation	48(0-144-0)
* These may change in cases where there are suggestions for the improvement of the curriculum			

Areas of study that a student may select for concentration:

Pathogenesis of human disease; Genetics, Epigenomics, Genomics, Transcriptomics, Proteomics, study of human disease; stem cell biology; Biochemistry; Microbiology; Pharmacology; Immunology; Physiology; Pharmacogenomics; Biomedical engineering; Bioinformatics; systems biology; molecular Epidemiology; ect.

Additional advantages of the programme

our program is the first Ph.D. program focusing on translational medicine in Thailand. The program aims to decompartmentalize the traditional research training, where basic scientists are not generally trained to think of the clinical application of their work, and clinicians are often not taught to formulate research studies based on clinical observations. To achieve this, the students will be mentored by both scientists and clinicians to provide the opportunity to focus on the translation of scientific discoveries into the application of diagnosis, prognosis prediction, therapies and cures of human diseases. The curriculum offers a broad exposure to clinical medicine in multidisciplinary fashion in order to fit best with the interest, background and requirement of each student, as well as a strong foundation of knowledge in research design, methodology, and skill in writing proposal for competitive research funding. In addition, medical-related emerging fields such as pharmacogenomics, personalized medicine, and bioengineering etc., are open for those students who are interested in such area

Details of Scholarships

Scholarships are available for potential candidates upon the decision of administration program committee

Proposal / Concept Paper

One A4 page personal statement covering your reason for choosing our program, your past achievement and future plan, and why you should receive a scholarship, if you plan to apply for one

Additional information for applicants

Please fill in online application from at the Faculty of Graduate Studies website
For more information please contact Program Coordinator
Email: ratransmed@mahidol.ac.th Tel. 02-201-0116 Fax. 02-201-1611

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 (for an applicant with a degree completion) 2 copies
 - A letter certifying that an applicant is currently in the final year prior to graduation (for an applicant seeking for a degree) 2 copies
 - 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 semester prior to graduation 2 copies
 - 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: http://www.grad.mahidol.ac.th/grad/academicinfo/engstandard2553_th.php 2 copies
- 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 pdf format (maximum size 2 MB)
- Recent photograph must be in jpeg format only (maximum size 2 MB)

Job option after graduation

1. Scientists, researchers in medical sciences
2. Lecturers or instructors who work in government or private educational institutions experts or consultants in translational medicine
3. Owners or personnels of companies that need expertise in translational medicine
4. Managing directors for research projects conducted by Pharmaceutical and Biotechnological companies

Further information may be obtained from the Director of Graduate Studies, Translational Medicine:

1. **Prof. Pratak O-Prasertsawat, MD** (E-mail : pratak.opr@mahidol.ac.th)
Research Center , Floor 3 , Faculty of Medicine, Ramathibodi Hospital
Tel: 0 2201 0116 Fax 0 2201 1611
2. **Dr. Natini Jinawath, MD, PhD, DABMG** (E-mail : jnatini@hotmail.com)
Research Center , Floor 3 , Faculty of Medicine, Ramathibodi Hospital
Tel: 0 2201 0116 Fax 0 2201 1611

Program Coordinator

1. **Miss. Siriphan Theprasit** (E-mail : siriphan.the@mahidol.ac.th)
Research Center , Floor 3 , Faculty of Medicine, Ramathibodi Hospital
Tel: 0 2201 0116 Fax 0 2201 1611

Notes 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