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Master of Science Programme in Radiological Technology (International Programme)

หลักสูตร วิทยาศาสตร์มหาบัณฑิต สาขาวิชา รังสีเทคนิค (หลักสูตรนานาชาติ) (ภาคปกติ)

Faculty of Medical Technology

คณะเทคนิคการแพทย์

Expected number of students to be accepted all year round : 5 Students

Admission Requirements

1. Students must hold a Bachelor's degree in Radiological Technology or Bachelor's degree in related field or equivalent;
2. have a grade point average of at least 2.75;
3. 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.

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

Exemptions from the above requirements 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.
3. Radiation Physics, Computer, Mathematics	13.30 - 16.30 p.m.	3. Radiation Physics, Computer, Mathematics	13.30 - 16.30 p.m.
Examination Place Mahidol University , Salaya , Nakhonpathom more details : www.grad.mahidol.ac.th or Announcement at Faculty of Graduate Studies branches.			

Current Curriculum Structure

	Credit
with specified plan A (2) curriculum.	
Required Courses	13
Elective Courses not less than	11
Thesis	12

	Credit
Required Courses	
MTID 605 Research Methodology Select only one	3(2-2)
MTRD 602 Physics of Medical Imaging	3(3-0)
MTRD 605 Advanced Radiation Physics and Dosimetry	2(2-0)
MTRD 606 Mathematics for Radiological Technology	2(2-0)
MTRD 607 Computer for Radiological Technology	2(1-2)
MTRD 547 Seminar	1(1-0)
SCID 516 Biostatistics Select only one	3(3-0)
Elective Courses	
Requirements for the student who selects to do the thesis in the area of X-Ray Computed Tomography (CT)	
MTRD 604 X-ray Computed Tomography (CT)	3(3-0)
MTRD 608 Applied X-ray Computed Tomography	3(2-2)
Requirements for the student who selects to do the thesis in the area of Magnetic Resonance Imaging (MRI)	
MTRD 603 Magnetic Resonance Imaging (MRI)	3(3-0)
MTRD 609 Applied Magnetic Resonance Imaging	3(2-2)
Requirements for the student who selects to do the thesis in the area of Nuclear Medicine	
MTRD 540 Physics in Nuclear Medicine	3(2-2)
MTRD 541 Image Reconstruction and Processing in Nuclear Medicine	3(2-2)
MTRD 542 Monte Carlo Simulation in Nuclear Medicine	3(2-2)
Requirements for the student who selects to do the thesis in the area of Medical	
MTRD 543 Medical Health Physics	3(2-2)
MTRD 544 Radiobiology and Radiation Protection	3(3-0)
Requirements for the student who selects to do the thesis in the area of Quality Management in Radiology	
MTRD 601 Quality Assurance in Diagnostic Imaging	4(2-4)

MTRD 545 Quality Management	2(2-0)
Other Elective Courses	
EGBE 480 Computer Programming	3(2-3)
EGBE 505 Signal and Image Processing	3(3-0)
GRID 542 Cell and Molecular Biology	3(3-0-6)
MTID 501 Electronics	3(2-2)
MTID 601 Clinical Laboratory Administration	2(1-2)
MTID 604 Selected Topics in Medical Technology	2(2-0)
MTRD 620 Nuclear Cardiology	3(1-4)
MTRD 621 Nuclear Oncology	3(1-4)
MTRD 622 Bone Research	3(2-2)
MTRD 623 Selected Topics in Radiological Technology	2(2-0)
RARD 625 Advanced Medical Radiobiology	2(2-0)
SCID 518 Generic Skills in Science Research	1(1-0-2)
Thesis	
MTRD 698 Thesis	12(0-36)
* These May Change in Cases Where There are Suggestions for The Improvement of The Curriculum	

New Curriculum Structure

	Credit
with specified plan A (2) curriculum.	
Required Courses	13
Elective Courses not less than	11
Thesis	12

	Credit
Required Courses	
MTRD 602 Physics of Medical Imaging	3(3-0-6)
MTRD 605 Advanced Radiation Physics and Dosimetry	2(2-0-4)
MTRD 606 Mathematics for Radiological Technology	2(2-0-4)
MTRD 607 Computer for Radiological Technology	2(1-2-3)
MTRD 618 Seminar in Radiology	1(1-0-2)
MTID 605 Research Methodology	3(2-2-5)

Elective Courses

SCID 516 Biostatistics	3(3-0-6)
MTRD 604 X-ray Computed Tomography	3(3-0-6)
MTRD 608 Applied X-ray Computed Tomography	3(2-2-5)
MTRD 603 Magnetic Resonance Imaging (MRI)	3(3-0-6)
MTRD 609 Applied Magnetic Resonance Imaging	3(2-2-5)
MTRD 610 Physics in Nuclear Medicine	3(2-2-5)
MTRD 611 Image Reconstruction and Processing in Nuclear Medicine	3(2-2-5)
MTRD 612 Monte Carlo Simulation in Nuclear Medicine	3(1-4-4)
MTRD 613 Medical Health Physics	3(2-2-5)
MTRD 614 Radiobiology and Radiation Protection	3(3-0-6)
MTRD 624 Computer and Data Networks for Radiological Technology	3(2-2-5)
MTRD 625 Computer System and PACS Administration for Radiological Technology	3(2-2-5)
MTRD 601 Quality Assurance in Diagnostic Imaging	3(2-2-5)
MTRD 621 Nuclear Oncology	3(1-4-4)
MTRD 623 Selected Topics in Radiological Technology	2(2-0-4)

Thesis

MTRD 698 Thesis	12(0-36-0)
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Additional advantages of the programme

The program aims to advance the knowledge and skills in clinical radiological technology, medical image processing and computer programming related to medical imaging.

Details of Scholarship

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

Additional information for applicants

Students may customize their area of specialties and research interests according to their specific needs.

Proposal / Concept

Applicants should submit a one-page A4 explaining their area of research interests, tentative plan of study.

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. Researchers in Radiological Technology
2. Specialists in Radiological Technology
3. Continuing Study in Ph.D. Programs

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

- 1. Asst.Prof. Yudthaphon Vichianin (E-mail : yudthaphon.vic@mahidol.ac.th)**
Medical Technology Building ,Floor 10 , Dept. of Radiological Technology,
Faculty of Medical Technology, Mahidol University, Salaya.
Tel. : 0 2419 7173 Fax. : 0 2419 7173

- 2. Assoc.Prof. Chiraporn Tocharoenchai (E-mail : chiraporn.toc@mahidol.ac.th)**
Medical Technology Building ,Floor 10, Dept. of Radiological Technology,
Faculty of Medical Technology, Mahidol University, Salaya.
Tel. : 0 2419 7173 Fax. : 0 2419 7173

Program Coordinator

Mrs.Prethong Pinyo (E-mail : prethong.pin@mahidol.ac.th)
Room 820, Medical Technology Building ,Floor 8, Dept. of Radiological Technology,
Faculty of Medical Technology, Mahidol University, Salaya.
Tel. : 0 2441 4370 ext.2837 Fax. : 0 2441 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**