



Master of Science Program in Occupational Health and Toxicology

Faculty of Medicine Ramathibodi Hospital,
Mahidol University, Bangkok, Thailand

Our Program

The curriculum is a multidisciplinary curriculum that integrates the areas of occupational health and medicine, toxicology, industrial hygiene, and safety, as well as epidemiology and genetics. The goal is to equip graduates with the abilities to apply concepts and theories of occupational health and toxicology to solve problems, integrate with occupational health services, conduct research, analyze data, and be the leaders in this discipline.

Our Master's degree program is endorsed by the Preventive Medicine Association of Thailand as an eligible program in Occupational Medicine residency training program.

Application Requirements

Applicants must upload a scanned copy of the following documents (PDF format) through the Online Admission System:

1. Degree Certificate (English Translated): Bachelor graduates or equivalent from a health science program or other related disciplines from the institutes approved by the Office of the Higher Education Commission
2. Academic Transcript (English Translated): Cumulative GPA at least 2.50
3. Photo (JPEG format)
4. Passport
5. Curriculum Vitae (CV)
6. Health Certificate
7. Recommendation Letters: from three persons
8. Additional documents: Statement of Purpose
9. English Proficiency Score Report: within two years of the application date, directly sent by the test center to the Language Center, Faculty of Graduate Studies, Mahidol University, within the application deadline

English Proficiency Criteria

Type	For Admission	For Graduation
IELTS	3	5
TOEFL-iBT	32	64
MU GRAD Plus	40	70
MU ELT	84	84

Candidates not satisfying the above qualifying criteria may be admitted at the discretion of the program committee and the Dean of the Faculty of Graduate Studies.

Structure of Curriculum

Required courses	Elective courses	Thesis	Total Credits
22	2	12	36

Coursework Descriptions

Required courses

Course ID	Course description	Credits
RAOT 602	Principle of Toxicology	3
RAOT 604	Principle of Occupational Health Epidemiology	3
RAOT 605	Seminar in Occupational Health and Toxicology	1
RAOT 606	Practice in Occupational Health	2
RAOT 608	Human Genetic and Biomonitoring in Occupational Health	1
RAOT 609	Occupational Health and Safety Management	2
RAOT 613	Research Proposal and Scientific Writing	1
RAOT 614	Systemic and Clinical Toxicology in Occupational Medicine	2
RAOT 616	Occupational Health and Safety	2
RAOT 617	Introduction to Industrial Hygiene	2
RAOT 618	Occupational and Environmental Medicine	2
RAOT 619	Occupational Health and Toxicology Internship	1

Elective courses

Course ID	Course description	Credits
RACE 607	Clinical Economics	3
RACE 618	Systematic Review and Meta-Analysis	3
RACE 626	Advanced Statistical Analysis in Clinical Research	3

Timetable

(Study is in normal working hours on weekdays)

Year 1 – All coursework/Thesis, Year 2 – Thesis

First semester

Time	Monday	Tuesday	Wednesday	Thursday	Friday
9-10		RAOT 609 2(2-0-4) Occupational Health and Safety Management Aj. Chathaya	RAOT 604 3(3-0-6) Principle of Occ Health Epidemiology Aj. Jakris , Aj. Wichai	RAOT 602 3(3-0-6) Principle of Toxicology Aj. Satariya	
10-11					
11-12		RAOT 605 1(1-0-2) Seminar in Occ Hlth & Toxicology Aj. Warisa			
12-13					
13-14		RAOT 618 2(2-0-4) Occupational and Environmental Medicine Aj. Warisa		RAOT 616 2(2-0-4) Occupational Health and Safety Aj. Chaturon	RAOT 608 1(1-0-2) Human Genetics & Biomonitoring in Occ Health Aj. Jakris
14-15					

Second semester

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8-9	RAOT 606 2(1-2-3) Practice in Occupational Health Aj. Warisa (WTS wk1&3)				
9-10		Elective courses: RACE 626 3(2-2-5) Advanced Stat Analysis in Clinical Research* (Jan – Feb)	RAOT 613 1(1-0-2) Research Proposal and Scientific Writing Aj. Jakris	Elective courses: RACE 626 3(2-2-5) Advanced Stat Analysis in Clinical Research* (Jan – Feb)	
10-11		RACE 607 3(3-0-6) Clinical Economics (optional) (Mar – Apr)	(class in some weeks)	RACE 607 3(3-0-6) Clinical Economics (optional) (Mar – Apr)	RAOT 614 2(2-0-4) Systemic & Clinical Toxicology in Occ Med Aj. Sahaphume
11-12					
12-13					
13-14		Elective courses: RACE 626 3(2-2-5) Advanced Stat Analysis in Clinical Research* (Jan – Feb)	(13.30–15.30) RAOT 617 2(2-0-4) Introduction to Industrial Hygiene Aj. Chathaya	Elective courses: RACE 626 3(2-2-5) Advanced Stat Analysis in Clinical Research* (Jan – Feb)	
14-15	RAOT 606 2(1-2-3) Practice in Occ Health Aj. Warisa				
15-16		RACE 607 3(3-0-6) Clinical Economics (optional) (Mar – Apr)		RACE 607 3(3-0-6) Clinical Economics (optional) (Mar – Apr)	

* Required elective

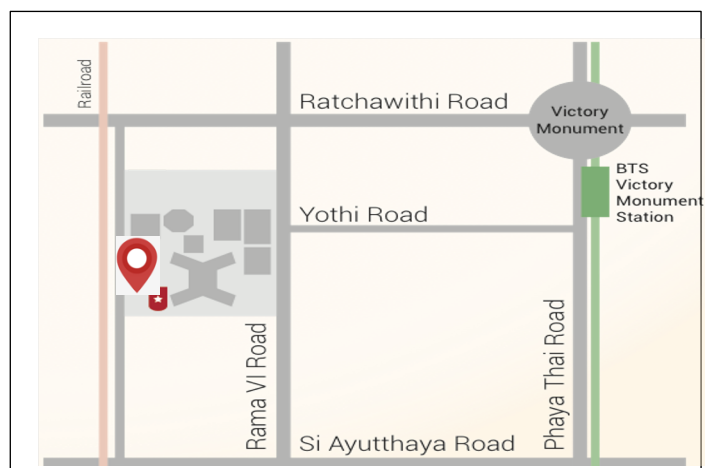
Research Activities

Steps	Months											
	1	2	3	4	5	6	7	8	9	10	11	12
Defend topic	↔											
Develop proposal	↔											
Defend proposal		↔										
Ethics approval			↔									
Grant (if needed)			↔									
Data management						↔						
Data collection						↔						
Data analysis							↔					
Write thesis		↔										
Defend thesis										↔		
Submit thesis											↔	

Contact us:

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Course Overview

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