

## 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 which integrated the areas of occupational health and medicine, toxicology, industrial hygiene and safety, as well as epidemiology and genetics. Objectives of the course are to produce graduates who can apply the concept and theory of occupational health and toxicology to solve problems, integrate with health care, conduct research, analyze data and be leaders in advanced academic and work ethics.

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

### **Application Requirements**

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

- 1. Degree Certificate (English Translated): Bachelor graduates or equivalent from 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 up to 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

Туре	For Admission	For Graduation				
IELTS	3	5				
TOEFL-IBT	32	54				
TOEFL-ITP (by Mahidol U)	400	480				
MU GRAD	36	60				

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		
20	4	12	36		

# **Coursework Descriptions**

Required courses

Course ID	Course description	Credits
RAOT 601	Occupational Health and Diseases	3
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 607	Industrial Hygiene and Occupational Safety	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

#### Elective courses

Course ID	Course description	Credits
RAOT 615	Assessment of Human Exposure to Environmental Pollution	2
RAOT 611	Special Topics in Occupational Health and Toxicology	1
RAOT 612	Approach to Genetic Association in Health and Toxic Substance	1
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

	Monday	Tuesday	Wednesday	Thursday	Friday
9:00 - 12:00			RAOT 601 Occupational Health and Diseases	RAOT 602 Principle of Toxicology	RAOT 603 Systemic and Clinical Toxicology in Occupational Medicine
13:00 - 15:00		RAOT 607 Industrial Hygiene and Occupational Safety		RAOT 604 Principle of Occupational Health Epidemiology	
15:00 - 16:00					

#### Second semester

	Monday	Tuesday	Wednesday	Thursday	Friday
9:00 - 12:00	RAOT 608 Human Genetic & Biomonitoring in Occ Health	Elective courses: RACE 626 (Jan - Feb)	RAOT 609 Occupational Health and Safety Management	Elective courses: RACE 626 (Jan - Feb)	RAOT 606 Practice in Occupational Health
	RAOT 613 Research Proposal & Scientific Writing	RACE 607 (Mar - Apr) RACE 618 (May - Jul)		RACE 607 (Mar - Apr) RACE 618 (May - Jul)	
13:00 - 15:00		Elective courses:  RACE 626 (Jan - Feb)  RACE 607 (Mar - Apr)	RAOT 605 Seminar in Occupational Health and Toxicology	Elective courses:  RACE 626 (Jan - Feb)  RACE 607 (Mar - Apr)	RAOT 606 Practice in Occupational Health
15:00 - 16:00		RACE 618 (May - Jul)		RACE 618 (May - Jul)	

## **Research Activities**

Stone	Months											
Steps	1	2	3	4	5	6	7	8	9	10	11	12
Defend topic	$\rightarrow$											
Develop proposal	<b>+</b>	<b></b>										
Defend proposal		<b>†</b>	-									
Ethics approval			+			<b></b>						
Grant (if needed)			+		<b></b>							
Data management						+				-		
Data collection						+		-				
Data analysis								<b>←</b>		-		
Write thesis		+								<b>-</b>		
Defend thesis										<b>+</b>	<b>→</b>	
Submit thesis											<b>+</b>	<b></b>

## Contact us:

Department of Community Medicine 8th floor, Building 3, Faculty of Medicine Ramathibodi Hospital, Mahidol University

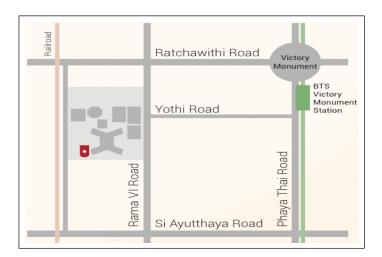
270 Rama VI Road, Ratchathewi,

Bangkok 10400 Thailand

Telephone: (+66)2-201-1518, (+66)2-201-1578

Cell: (+66)81-931-6202

Fax: (+66)2-201-1518 ext. 134 Email: <a href="mailto:chathaya.won@mahidol.edu">chathaya.won@mahidol.edu</a> Website: <a href="http://med.mahidol.ac.th/oht">http://med.mahidol.ac.th/oht</a>



## **Course Overview**

Course	2019					2020						
Jourse		SEP	ОСТ	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY
First semester												
RAOT 607 Industrial Hygiene & Occ Safety												
RAOT 601 Occ Health & Diseases												
RAOT 602 Principle of Toxicology												
RAOT 604 Principle of Occ Health Epidemiology												
RAOT 603 Systemic & Clinical Toxicology in Occ Medicine												
Second semester												
RAOT 608 Human Genetic & Biomonitoring in Occ Health												
RAOT 613 Research Proposal &Scientific Writing												
RAOT 609 Occ Health & Safety Management												
RAOT 605 Seminar in Occ Health & Toxicology												
RAOT 606 Practice in Occ Health												
Elective												
RACE 626 Advanced Stat Analysis in Clinical Research												
RACE 607 Clinical Economics												
RACE 618 Systematic Review & Meta-Analysis												