รหัสในการสมัคร



Doctor of Philosophy Program in Environmental and Water Resources Engineering

(International Programme) หลักสูตร ปรัชญาดุษฎีบัณฑิต สาขาวิชา วิศวกรรมสิ่งแวดล้อมและทรัพยากรน้ำ (หลักสูตรนานาชาติ) Faculty of Engineering คณะวิศวกรรมศาสตร์ Expected number of students to be accepted all year round: 8 Students

Admission Requirements A candidate must:

- 1. hold either a Bachelor of Engineering or Science degree
- 2. Ph.D. Program Plan 1.1 and 2.1 require Master degree in Engineering, Science or related fields with a cumulative GPA of at least 3.50 while Plan 1.2 and 2.2 are specific plans for qualified applicants with Bachelor degree with excellence (a cumlative GPA of at least 3.50)
- 3. have a TOEFL score of at least 500, TOEFL computer-based score of 173, TOEFL Internetbased 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

Exception from the above conditions may be granted by the Programme Committee and the Dean of the Faculty of Graduate Studies.

<u>Third Round</u> May 31, 2014		
Subjects for examination	Time	
1. English	8.30 - 11.30 a.m.	
Place Mahidol University, Salaya, Nakhonpathom more details: www.grad.mahidol.ac.th or Announcement at Faculty of Graduate Studies branches.		

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

Curricu	lum Structure		0 "
<u>Plan 1</u>	Additional non-credit courses may be assig	ned to enroll with supervisors' agreement	Credit
	Type 1.1 (For student with Master's degree)	Type 1.2 (For student with Bachelor's degree)	
	Dissertation Total (not less than)	48 48	72 72
<u>Plan 2</u>		Type 2.2	
	(For student with Master's degree)	(For student with Bachelor's degree)	
	Required Courses	6	12
	Dissertation	6 36	48
	l otal (not less than)	48	/2
			Credit
Require	ed Courses		
Type 2.	1 (Student with Master's degree)		
EGEW 611 Advanced Research in Environmental and Water Resources Engineering		3 (3-0-6)	
EGEW	612 Experimental Design and Modeling		3 (3-0-6)
Type 2.2 (Student with Bachelor's degree)			
EGEW 611 Advanced Research in Environmental and Water Resources Engineering		3 (3-0-6)	
EGEW 612 Experimental Design and Modeling		3 (3-0-6)	
EGEW 621 Water Quantity and Quality Assessment : Best Management Practices		3 (3-0-6)	
EGEW 622 Pollution Prevention and Control		3 (3-0-6)	
Elective	Courses		
EGEW	531 Physico-Chemical Processes		3 (3-0-6)
EGEW	532 Biological Processes		3 (3-0-6)
EGEW	533 Clean Technology		3 (3-0-6)
EGEW	534 Membrane Technology		3 (3-0-6)
EGEW	535 Waste Reuse and Recycling		3 (3-0-6)
EGEW	536 Principles of Toxicology		3 (3-0-6)
EGEW	537 Soil Pollution Engineering		3 (3-0-6)
EGEW	538 Air Pollution Modeling and Application	S	3 (3-0-6)
EGEW	539 Life Cycle Assessment		3 (3-0-6)

EGEW 540 Micropollutants Control Engineering	3 (3-0-6)		
EGEW 541 Applied Wastewater Microbiology	3 (3-0-6)		
EGEW 542 Sediment and Pollutant Transport	3 (3-0-6)		
EGEW 543 Flood and Drought Management	3 (3-0-6)		
EGEW 544 Reservoir System Planning and Management	3 (3-0-6)		
EGEW 545 Hydroinformatics in Water Resources Engineering	3 (3-0-6)		
EGEW 546 Impact of Climate Change on Environment and Water Resources	3 (3-0-6)		
EGEW 547 Geographic Information System for Environmental and Water	3 (3-0-6)		
EGEW 548 Remote Sensing for Environmental and Water Resources Engineering	3 (3-0-6)		
EGEW 549 Special Study	3 (3-0-6)		
EGEW 550 Eco-efficient Engineering	3 (3-0-6)		
EGEW 551 Environmental Impact Assessment	3 (3-0-6)		
EGEW 552 Stochastic Prediction Moedl of Water Resources Data	3 (3-0-6)		
EGEW 553 Natural Disaster Planning and Management for Water Resources Engineering	3 (3-0-6)		
EGEW 554 Geoinformatics for Watershed Management	3 (3-0-6)		
Dissertation			
EGEW 898 Dissertation (Type 1.1)	48(0-144-0)		
EGEW 899 Dissertation (Type 1.2)	72 (0-216-0)		
EGEW 699 Dissertation (Type 2.1)	36 (0-108-0)		
EGEW 799 Dissertation (Type 2.2)	48 (0-144-0)		
* * Courses may change in case of curriculum revision			

Additional advantages of the programme

- International Environment
- Problem based learning
- International Collaborations

Memorandum of Understanding (MOU) for research collaboration and academic exchange were signed with many Universities such as Seoul National University, South Korea; Kyoto University, Japan; National University of Singapore, Singapore; State University of New York College at Baffalo, USA; Aalborg University, Denmark; Technical University of Hamburg, Germany and Liverpool John Moores University, UK.

Research Areas

- Natural and Advanced Techniques for Water and Wastewater Treatment
- Emerging Micropollutants
- Integrated Water Resources Management Systems
- Life Cycle Assessment and Eco-effcient Engineering
- Industrial Pollution Prevention and Control
- Solid and Hazardous Waste Management

Concept paper Presentation

It is recommended that the candidate prepare a concept paper (2-3 pages)

Details of Scholarship

• Grants through project and funding from many agenecies are also available.

Application Process

Application is only available via online 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 last semester 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

2 copies

2 copies

- A copy of identification card
- A copy of house registration certification
- 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 jpeg format only (maximum size 2 MB)

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Job opportunity after graduation

- 1. Water resource engineer, environmental engineer in Private and Public sectors.
- 2. Researcher and university Professors at national, regional and International levels.
- 3. Consultants for the Private and Public Sectors.

Further information may be obtained from the Director of Graduate Studies, Environmental And Water Resources Engineering:

Program Director

1. Asst. Prof. Dr. Ranjna Jindal	(E-mail : egrjd@mahidol.ac.th)
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2. Dr. Romanee Thongdara (E-mail; romanee.tho@mahidol.ac.th)

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Program Coordinator

1. Miss Wikanda Wannagasame(E-mail : wikanda.wan@mahidol.ac.th)Three Building 3, Floor 3, Department of Civil and Environmental Engineering,Faculty of Engineering.Tel. 0 2889 2138Fax. 0 2 441 9731

Notes For more educational 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