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**Master of Engineering Programme in Environmental and Water Resources Engineering  
(International Programme)**

หลักสูตร วิศวกรรมศาสตรมหาบัณฑิต

สาขาวิชา วิศวกรรมสิ่งแวดล้อมและทรัพยากรน้ำ

(หลักสูตรนานาชาติ)(ภาคปกติ)

**Faculty of Engineering**

คณะวิศวกรรมศาสตร์

**Expected number of students to be accepted all year round : 10 Students**

**Admission Requirements**

**A candidate must:**

1. The candidate should hold either a Bachelor of Engineering or Science degree
2. have a minimum grade point average of 2.50
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](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.)

<b><u>First Round</u></b> January 17, 2015		<b><u>Second Round</u></b> May 16, 2015	
<b>Subjects for examination</b>	<b>Time</b>	<b>Subjects for examination</b>	<b>Time</b>
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.
<b>Examination Place</b> Mahidol University , Salaya , Nakhonpathom more details : <a href="http://www.grad.mahidol.ac.th">www.grad.mahidol.ac.th</a> or Announcement at Faculty of Graduate Studies branches.			

## Curriculum Structure

	<b>Credit</b>
Elementary Courses	-
Required Courses	20
Elective Courses	6
Thesis	12

	<b>Credit</b>
<b>Foundation Courses</b>	
EGEW 501 Water and Wastewater Engineering	3(3-0-6)
EGEW 502 Hydraulic Engineering	3(3-0-6)
EGEW 503 Applied Hydrology	3(3-0-6)
<b>Required Courses</b>	
EGEW 511 Water Quality Engineering	3(2-2-5)
EGEW 512 Air Pollution Engineering	3(3-0-6)
EGEW 513 Solid and Hazardous Waste Management	3(3-0-6)
EGEW 514 Feasibility Study for Water Resources Project	3(3-0-6)
EGEW 515 Water Resources Systems Analysis and Management Planning	3(3-0-6)
EGEW 516 Seminar in Environmental and Water Resources Engineering	1(1-0-2)
EGEW 517 Skills Enhancement through Problem Based Learning	2(0-6-2)
EGEW 518 Research Methodology for Environmental and Water Resources Engineering *	2(2-0-4)
<b>Elective Courses</b>	
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 Applications	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 Hydro informatics 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 Resources Engineering	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)
<b>Thesis</b>	
EGEW 698 Thesis	12(0-36-0)
<b>* These may change in cases where there are suggestions for the improvement of the curriculum</b>	

#### **Additional advantages of the programme**

Students may have chance to go to some foreign institutions for research training during summer. They can go to any of the following places : Kyoto University, Japan; Seoul, National University, South Korea, National University of Singapore, Georges Tech. (U.S.A.)

#### **Details of Scholarships**

Several scholarships and partial tuition supports are available for qualified students.

#### **Additional information for applicants**

Our program have academic collaboration with Kyoto University, Seoul National University and National of Singapore University.

#### **Application Process**

Application is only available via online application at [www.grad.mahidol.ac.th](http://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](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

- Consultant.
- Environmental Engineer.
- Researcher.

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

**1. Asst.Prof.Dr. Ranjna Jindal (E-mail : [ranjna.jindal@gmail.com](mailto:ranjna.jindal@gmail.com))**

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**2. Dr.Romanee Thongdara (E-mail : [romanee\\_t@yahoo.com](mailto:romanee_t@yahoo.com), [romanee.tho@mahidol.ac.th](mailto:romanee.tho@mahidol.ac.th))**

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#### Program Coordinator

**Miss Wikanda Wannagasame (E-mail : [wikanda.wan@mahidol.ac.th](mailto:wikanda.wan@mahidol.ac.th))**

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**Notes** 1. The programme of Environmental Engineering may require students to study the pre-requisite courses:

- EGEW 501 Water and Wastewater Engineering 3 Credits
  - EGEW 503 Applied Hydrology 3 Credits
2. For more education information : [www.grad.mahidol.ac.th](http://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](mailto:gradthai@mahidol.ac.th)**