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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 : 5 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 3.00;
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. For those who already hold a valid English score, please submit its certificate along with all application documents.

**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)

### **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 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)

### **Thesis**

EGEW 698 Thesis	12(0-36-0)
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\* These may change in cases where there are suggestions for the improvement of the curriculum

### **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
- 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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#### **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)**