

The Urban Water Engineering and Management (UWEM) programme is jointly offered by the Asian Institute of Technology (AIT) and UNESCO-IHE Institute of Water Education (UNESCO-IHE). The UWEM programme is a Joint Master's degree programme.

Students who successfully complete this programme will be awarded Master degree in Urban Water Engineering and Management.

The Urban Water Engineering and Management programme is one of the few programmes worldwide that addresses the need for Master level professionals capable of delivering both water and wastewater services within the context of the urban water cycle, covering both technical and management aspects. As such, it is attractive to professionals from both the government sector and the water industry, particularly from developing and transitional countries.

JOINT MASTER'S DEGREE PROGRAMME IN URBAN WATER ENGINEERING AND MANAGEMENT

Context

The world is increasingly urbanized with 50% of the world's population living in urban areas. By 2030 in Asia, 54% will live in cities compared to 39% in 2005. This enormous growth of urban areas poses several challenges, such as delivery of essential water and sanitation services and the management of the urban water cycle. This is also recognized by the Millennium Development Goals and Targets established at the UN Millennium Summit in 2000. These challenges are further complicated due to climate change, and it is foreseen that coping with them requires a substantial increase of highly trained and qualified human resources.

Programme structure and contents

The Urban Water Engineering and Management Programme offer students the possibility to study in Bangkok, Thailand, and in Delft, the Netherlands, at two renowned institutes for international post-graduate education: AIT and UNESCO-IHE.

The coursework part of the programme starts at AIT in Bangkok in August, where students follow a number of courses until the second half of December. In early January, they move to Delft where they join students in UNESCO-IHE's Urban Water and Sanitation programme for five modules and international field trip, and start with writing their MSc research thesis proposal. Students then move back to Bangkok for their individual thesis research work.

Target group

The target group for this programme is professionals from urban water and wastewater authorities, urban development ministries/authorities, water and environment ministries, private companies, academia, NGOs and city and municipal authorities dealing with or interested in water and sanitation services and managing the urban water cycle.



Subjects at AIT (August – December)

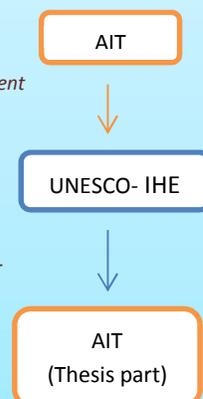
- Watershed Hydrology
- Drinking Water Treatment
- Wastewater Treatment
- Integrated Water Resources Management

Subjects at UNESCO-IHE (January – July)

- Urban Drainage and Sewerage
- Asset Management
- Managing Water Organizations
- Water Transport and Distribution
- Urban Flood Management and Disaster Risk Mitigation
- International Field trip and Fieldwork
- MSc Thesis Proposal writing

Research at AIT (August – May)

- Thesis Proposal and Work



Key academic staff

UNESCO-IHE

Prof. G. L. Amy
Prof. D. Brdanovic
Dr. H. Garcia Hernandez
Dr. C. M. Hooijmans
Prof. M. Kennedy
Prof. J. B. Van Lier
Dr. C. M. Lopez Vazquez
Dr. M. Mulenga
Dr. P. D. A. Pathirana
Dr. M. Ronteltap
Dr. S. Sharma
Dr. N. Trifunovic
Dr. J. van de Vossenberg
Dr. Z. Vojinovic

AIT

Prof. Ajit Annachhatre
Prof. Mukand S. Babel
Dr. Roberto S. Clemente
Prof. A. Das Gupta
Dr. Damien Jourdain
Dr. Thammarat Kootatep
Prof. Nguyen T. Kim Oanh
Dr. Sylvain R. Perret
Dr. Preeda Parkpian
Prof. Chongrak Polprasert
Dr. Sangam Shrestha
Dr. Oleg Shipin
Prof. C. Visavanathan
Dr. Sutat Weesakel



Participant's profile

Candidates with a bachelor's degree preferably in Civil, Environmental or Water Resources Engineering or related fields are eligible to apply. In principle, candidates should have a minimum of three years of practical or research experience since graduation. All applications are, however, considered on their individual merits. Since instruction and examinations are given in English, it is essential that participants have a good working knowledge of the English language. If there is any doubt about a candidate's proficiency in English, he or she will be required to take one of the internationally recognized language tests before confirmation of admittance.



Admission procedure

For admission to the UWEM programme you can apply to either UNESCO-IHE or AIT. For UNESCO-IHE, you have to apply online. At the UNESCO-IHE website there is a link to apply online.

For AIT, you can download the application form from the website of AIT:

<http://www.ait.asia/admissions/application.html> and submit the completed form with required documents. Alternatively, you can also submit your application online from the same website. Please mention clearly that you are applying for the joint master's degree programme on Urban Water Engineering and Management (UWEM).



The Asian Institute of Technology promotes technological change and sustainable development in the Asia-Pacific region through higher education, research and outreach.

Established in Bangkok in 1959, AIT has become a leading regional postgraduate institution and is actively working with public and private sector partners throughout the region and with some of the top universities in the world.

Recognized for its multinational, multi-cultural ethos, the Institute operates as a self-contained international community at its campus located 40 km north of Bangkok, Thailand. During your studies at AIT, you will meet fellow students from more than 40 countries around the globe.

Besides the usual labs and academic buildings, the main campus includes housing, sports, and medical facilities, a conference center, and a library with over 230,000 volumes and 830 print and on-line periodicals. All serve to fulfil the AIT mission *to develop highly qualified and committed professionals who play leading roles in the region's sustainable development and its integration into the global economy.*



UNESCO-IHE is at the centre of a vast international network of water related institutions, and functions as an interface between knowledge networks and centres, public and private sector organisations, scientific and professional associations and other members of the international water community. Through these partnerships, the Institute broadens its knowledge base and increases its effectiveness in responding to the demand for its services.

As a participant, you profit from the professional contacts the Institute has made during its half a century of existence. When studying at UNESCO-IHE, you can expect to meet leading figures from the international water arena. Your professors and lecturers will put your study in the perspective of global dialogues and targets such as the Millennium Development Goals. The Institute's approach applies an international perspective to solve domestic problems: think globally, act locally.

During your studies at UNESCO-IHE, you will meet fellow participants from around the globe. Their cultures and professional experiences will allow you to taste the Institute's network on a more personal level. Throughout the year, the Institute hosts a number of activities that aims to make your life as pleasant as possible.

For the latest and in-depth information on the Urban Water Engineering and Management Programme, including content, programme and tuition fees please see:

<http://www.unesco-ihe.org/msc-programmes/specialization/urban-water-engineering-and-management-0>