

CERTIFICATE

Students can obtain the certificate of postgraduate in **Technology for Integrated Water Management** at the University of Antwerp or at Ghent University.

PRACTICAL INFORMATION

Language

All courses are taught in English.

Duration

1 academic year

Start of the programme

21 September 2009

Registration

Participants register either at the Institute of Environment & Sustainable Development of the University of Antwerp, or at the Centre for Environmental Sanitation of Ghent University.

Teaching method and course materials

The programme Technology for Integrated Water Management is taught in an interactive, practical way. Students are expected to actively participate in class discussions, analyse cases, prepare presentations, report by means of group papers and engage in computer-assisted exercises. All courses will focus on the practical application of concepts in real life.

Course material spans from basic definitions to practice and the latest developments, from local problems to global solutions, and vice-versa. Theories are illustrated and case studies refer to real life.

Location

The modules will be organised in Antwerp and in Ghent, on one of the campuses of the University of Antwerp, Ghent University and the Antwerp Maritime Academy.

FEES AND EXPENSES

To ensure that **Technology for Integrated Water Management** meets the needs of the students, a high flexibility in participation is provided for. Modular enrolments are accepted.

Participation	Fee
Full course (60 ECTS)	1105,80 EUR
Modular enrolment	61,8 EUR + 17,4 EUR/cr

Fees include tuition, excursions and use of all university facilities but does not include handbooks. Fees are exempt of VAT. Invoices are due within thirty days.

MORE INFORMATION?

www.watertechnology.be

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Postgraduate course

TECHNOLOGY FOR INTEGRATED WATER MANAGEMENT

Academic year 2009-2010

INVITATION

Integrated Water Management is called the challenge for the 21st century. Worldwide, an increase can be seen in the demand for integrated competences, usable in water-related R&D. Research institutions, global businesses, specialised companies, consultancies and government institutions are feeling the need for highly qualified professionals in Water-technology, with the right skills for integrated water management.

In view of their educational experience and their complementary research expertise, the interfaculty environmental centres of the University of Antwerp (Institute of Environment & Sustainable Development IMDO) and of Ghent University (Centre for Environmental Sanitation CMS) took the initiative, together with the Antwerp Maritime Academy (AMA), to organise a joint postgraduate programme: **Technology for Integrated Water Management**.

OBJECTIVES

The postgraduate course **Technology for Integrated Water Management** is designed to equip the students with the competency to understand the state-of-the-art on water technology and integrated water management. The programme aims to improve the understanding of concepts and systems and enhances knowledge regarding tools and technologies. This will enable innovative planning and action from a new perspective and approach.

ORGANISERS

The postgraduate course **Technology for Integrated Water Management** is organised jointly by the interfaculty **Institute of Environment and Sustainable Development** of the University of Antwerp and the interfaculty **Centre for Environmental Sanitation** of Ghent University.

TARGET GROUP

Technology for Integrated Water Management is tailored to professionals and university graduates and aims to develop their knowledge and skills in a broadening interdisciplinary perspective.

The advanced course invites participation from professionals, managers, consultants, researchers, PhD students and alumni.

ADMISSION REQUIREMENTS

> A master degree

The postgraduate course **Technology for Integrated Water Management** is open to students who have a master's degree in:

- Sciences
- Applied Sciences
- Applied Biological Sciences
- Nautical Sciences

Other masters can enrol, after a positive evaluation of their application file by the steering committee, on the basis of individual skills.

> Proficiency in English

The working language of the postgraduate course **Technology for Integrated Water Management** is English. In order to assure active participation, a good command of English in all aspects (written, spoken, and comprehension) is a prerequisite.

PROGRAMME

Technology for Integrated Water Management is a full-time programme resulting in 60 credits consisting of 10 modules and a dissertation.

Module	CR	Study time
Part 1: Introduction		
1 Global water problems and integrated water management	3	90h
2 Integrated assessment of water and sediment quality	6	180h
Part 2: Specialisation in water technology (Electives) *		
3 Wastewater treatment technology	6	180h
4 Sludge & Sediment management & treatment	3	75h
5 Ecological engineering	3	90h
6 Sustainable use of water: winning, distribution, use and reuse	3	90h
7 River morphology & hydrodynamics	3	90h
8 Water and shipping	6	180h
9 Integrated Water Management: Case River 21	3	75h
Part 3: Integration in Water Technology & Management		
10 Integrated modeling and design of basin management plans	3	90h
Part 4: Dissertation		
11 Dissertation	30	900h

* A selection has to be made out of the courses from the mentioned Elective Course List. A total amount of 18 credits should be selected and approved by the steering group. On motivated demand max. 1 course for max. 5 credits can be chosen from programmes of the partner institutes.