



International Short Course in Decentralised Water Supply and Sanitation



Delft, The Netherlands, 5 – 23 July 2010

Decentralised Water Supply and Sanitation

International Short Course in Delft, The Netherlands
5 – 23 July 2010

Background

Worldwide there are large numbers of people without access to safe water supply and basic sanitation, particularly in rapidly growing urban centres of developing countries and countries in transition. Serving the unserved in urban poor areas with safe water and sanitation is necessary to achieve the UN Millennium Development Goals (MDGs). There is however a lack in human capacity in providing such decentralised water supply and sanitation systems because the relevant knowledge and experience has to-date not been adequately disseminated.

Aim

The aim of this course on Decentralised Water Supply and Sanitation (DWSS) is to provide theoretical background and practical expertise for low-cost decentralised water supply and sanitation options specifically suitable for small towns, peri-urban areas and urban slums.

At the end of this course, the participant will be familiar with different technologies and management aspects of low-cost, decentralised water abstraction, water treatment and sustainable sanitation including nutrient reuse in agriculture in accordance with the new WHO guidelines for safe use of excreta and greywater in agriculture. The course will enable the participants to prepare a basic engineering or concept design for relevant technologies, and they will be able to facilitate planning, financing, implementation, operation and maintenance of decentralised water supply and sanitation infrastructures based on stakeholder participation and community management.

Description

The course is given to address the growing need for decentralised and sustainable water supply and sanitation systems in order to meet the MDGs.

This course deals with and integrates three important aspects of DWSS namely water supply systems, sanitation systems and management aspects.

We cover different approaches and technologies for water supply (water sources, wells and pumps, rainwater harvesting, POU treatment system) and sanitation (ecological sanitation, MDGs, treatment aspects for excreta and greywater, safe reuse of ecosan products, faecal sludge management and low-cost drainage and sewerage).

We also cover management aspects including participatory planning and evaluation, community management, financing and cost recovery, institutional arrangements and operation and maintenance of DWSS systems.

Learning Approach

The course consists of lectures, workshops, exercises, case studies, films, a field trip, a laboratory session and assignments.

The language of instruction is English.

This course is also part of the regular UNESCO-IHE Masters of Science Program in Municipal Water and Infrastructure.

Program

Participant Profile

This course is intended for professionals dealing with management, engineering, decision-making and education in the field of decentralised water supply and sanitation in developing countries or countries in transition. Participants will be from government organisations (local administrations, national agencies), non-governmental organisations, universities and the private sector.

Presenters

Saroj Sharma, PhD, MSc, is a water supply engineer with specialisation and international experience in decentralised and community managed water supply systems and low-cost water treatment.

Kebreab Ghebremichael, PhD, MSc, is a water supply engineer with expertise in decentralised water supply systems and low-cost water treatment.

Mariska Ronteltap, MSc is a process engineer specialised in decentralised wastewater treatment systems and ecological sanitation.

Additionally a number of international experts IRC (The Netherlands) and SANDEC (Switzerland) will contribute their expertise to the course in the fields of management aspects of decentralised water supply and sanitation, and faecal sludge management respectively.

Program Enquiries

For matters concerning the program, please contact:

S. Sharma,
Course Coordinator
E s.sharma@unesco-ihe.org
T +31 15 215 17 72
F +31 15 212 29 21

UNESCO-IHE website: www.unesco-ihe.org
IRC website: www.irc.nl
SANDEC website: www.sandec.ch

Week 1

Monday
Tuesday
Wednesday
Thursday
Friday

5-9 July 2010 - Water Supply

Registration and Introduction to DWSS
Water supply systems
Small-scale water treatment
Rainwater harvesting
Presentations from the participants

Week 2

Monday
Tuesday
Wednesday
Thursday
Friday

12-16 July 2010 - Sanitation

Ecological sanitation: approach and technologies
Ecological sanitation: reuse in agriculture
Laboratory session on ecological sanitation
Faecal sludge management
Low-cost drainage and sewerage

Week 3

Monday
Tuesday
Wednesday
Thursday
Friday

19 –23 July 2010 - Management aspects

Participatory planning and evaluation
Community management
Financing and cost recovery
Institutional aspects
Operation and maintenance aspects

Duration and Venue

The course will be held from Monday, 5 July 2010 to Friday 23 July 2010 at UNESCO-IHE, Delft, The Netherlands.

Course Fee

The fee for the 3-week course, including course lecture notes, is € 2,250. The fee excludes insurance, accommodation and living expenses. Payments should be made one week prior to the start of the course, mentioning the name of the course, to:

ABN-AMRO Bank, Burgwal 8, Delft, The Netherlands
Account Number: 51.68.20.923
Swift code: ABNANL 2A
IBAN Number:
NL54ABNA0516820923
Account Name: Stichting IHE, Delft.

A limited number of scholarships are available to attend this course (course fee, travel costs and living allowance) via the Dutch government Netherlands Fellowship Program (NFP) (for application details see below). Female participants from NFP-eligible countries are particularly encouraged to apply.

Registration and Application

To register for the International Short Course on Decentralised Water Supply and Sanitation, please fill in the enclosed Short Course Application Form and mail or fax it as soon as possible to:

UNESCO-IHE Registrar
Attn. Ms. C. Brakel
PO Box 3015
2601 DA Delft
The Netherlands

T +31 15 215 1720
F +31 15 212 2921
E c.brakel@unesco-ihe.org
I www.unesco-ihe.org

The form can also be downloaded from UNESCO-IHE's website at:
www.unesco-ihe.org/downloads/ShortC_applicationform.pdf

For additional information on accommodation, registration, application, insurance and other administrative matters, please contact Ms. Claudia Brakel as noted above.

You must first submit an application form to UNESCO-IHE (for academic admission) prior to 1 February 2010. Subsequently you can submit the applications for NFP fellowships to the Dutch embassy or consulate in your country by 1 March 2010. See Nuffic website www.nuffic.nl for details.

For applicants with their own funding, the deadline for application is 5 June 2010.

Accommodation and Living Expenses

UNESCO-IHE can offer accommodation in one of the Institute's hostels for participants (if available), at a rate of € 27 per night, and a € 50 administration fee. Alternatively, hotel accommodation is available in the center of Delft, in the vicinity of UNESCO-IHE's premises. The rates start from € 85 per night. In addition to accommodation costs, approximately € 20 to € 35 per day is required to cover living expenses.

Insurance

All course participants must have health, accident and third party liability insurance. This health insurance is arranged by UNESCO-IHE's Student Affairs Office upon course registration. The cost (premium) for insurance starts from € 38 per month.

About UNESCO-IHE Institute for Water Education

On 5 November 2001, UNESCO's General Assembly declared the existing IHE, based in Delft, to be established as the UNESCO-IHE Institute for Water Education. Within UNESCO's mandate, the new Institute functions as an international standard-setting body for postgraduate water education programs and continuing professional training; for capacity building; education, training and research; setting up and managing networks of educational and water sector institutions and organizations worldwide.

UNESCO-IHE is a center of expertise in the fields of water, environment, and infrastructure. The Institute's reputation is firmly based on its achievements in postgraduate education and training at Masters and PhD levels, and on the quality of its R&D and consultancy services, focusing on institutional and human resource capacity building. Established in 1957, the Institute has trained more than 13,000 engineers and scientists from all over the world.

In Delft, UNESCO-IHE offers a number of postgraduate programs, as well as short and tailor-made training courses, some of which are offered by UNESCO-IHE's partner universities and research institutes in developing countries and countries in transition.

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2611 AX Delft
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I www.unesco-ihe.org**

Short Course Application Form

Mail to: UNESCO-IHE Registrar's Office
P.O. Box 3015
2601 DA Delft
The Netherlands
E-mail: info@unesco-ihe.org

I wish to be enrolled in the Short Course on

Name of the Course **DECENTRALISED WATER SUPPLY AND SANITATION**

1 Full name participant (underline surname) male / female

2 Official name (i.e. name under which you wish to be registered and which will appear on your diploma)

3 Postal address

Phone Fax E-mail

4 Present citizenship

5 Profession

6 Date, place and country of birth

7 College and / or university education (please attach transcript)

Name and place

From to Degree

Main studies

Thesis or major

Title of the thesis, professional publications (use additional sheet)

8 English language proficiency (fair F; good G, excellent E)

read F G E write F G E speak F G E understand F G E

Was English the language of instruction in secondary school / university? yes / no

9 Present professional employment (use additional sheet if necessary)

Job title from

Employer, name

Employer, address

Type of organisation: government / semi government / private

Phone Fax E-mail

Responsibilities

In case you are involved in the execution of a specific project:

Project name

Location

Executing Agency

Financing provided by

10 Short Description of previous posts during the last 7 years

1.	_____	from	_____	to	_____

2.	_____	from	_____	to	_____

3.	_____	from	_____	to	_____

11 Personal statement of why you wish to participate in this Short Course

12 How were you informed of the Programme?

13 Please enclose a curriculum vitae and one passport photo.

14 How do you intend to pay the costs of your stay and other expenses (fees etc.) in the Netherlands?

Have you received confirmation of financial support from your sponsor? yes / no

Date

Signature applicant

15 This application is supported by my employer / supervisor / head of department who will:

Cover the cost of participation in this course

Assist me in looking for funds to cover the cost of participation

Name

Signature employer / supervisor / head of department