



## Integrated Urban Water Management for better resilience in cities

**Date of training course: 7 — 11 December 2020** *(4 hours of learning each day)*

**Deadline of application: 10 November**

### INTRODUCTION

As the world becomes increasingly urban, cities are faced with growing water scarcity. The way that water is currently managed in cities is wasteful and polluting, despite that cities possess inherent potential for more sustainable management.

Technological and policy approaches are important, but experience has proved that approaches that consider the full water cycle and the integration of all institutions involved, are the ones that ensure actual implementation. Taken on as integral feature of urban planning, integrated urban water management has proven to help cities meet the many urban water needs – both human and environmental – particularly in a context of continued urbanization and climate uncertainty.

IUWM nevertheless, takes time and effort to implement and requires many organizations, from utilities and planners to storm water managers and regulators, to work more actively together. Supporting the shift to an integrated approach requires the active bringing together of these complementary actors, and empowering them with concepts, tools and knowledge to act.

Moreover, the dedicated water goal, SDG 6, is to ensure availability and sustainable management of water and sanitation for all, and it contains technical targets, as well as implementation targets, which ultimately linked to IUWM at city level.



## OBJECTIVE OF THE COURSE

The course aims to provide training participants applicable understanding of the principles of Integrated Urban Water Management (IUWM) in cities, and how these principles can be applied in an equitable way and help to achieve SDG 6 on improving access to water and sanitation for all, at the same time address higher resilience and sanitation services in the cities, especially in the context of COVID-19 pandemic.

The course will start with an introduction on the scope and requirements of an integrated urban water management system, what is feasible to develop and implement it within the existing systems in the city. The participant will also learn how an IUWM system can safeguard social values, and positively impact the environment especially with regards to climate adaptation and disease prevention.

Participants will be exposed to the broad sphere of water actors that participate in the implementation of water services, so that at the end of the course, they will be able to initiate the process of developing and applying IUWM action plan in their home cities. The course will give them the tools to analyse their urban and institutional environments in order to select best choice opportunities for implementing IUWM.

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## SPECIFIC OUTCOMES OF THIS COURSE

- Each participant will be familiar with all aspects of a IUWM, will have identified and compiled major components of the IUWM approach and is committed to take it further within their respective city in regards of monitoring achievement toward SDG6 on water and sanitation;
- Participants are able to identify feasible solutions in a form of an IUWM action plan for addressing sustainable water resource management in city;
- Through alumni group activities, post-course follow-up tracks participants' progress with IUWM implementation and supports peer to peer exchange of progress and challenges in development and implementation of plans.



## TARGET AUDIENCE

The training course is tailored for senior decision makers, city managers and practitioners from Asian cities who work in national and local governments and have direct responsibilities for the planning, design, finance, implementation and management of water management policies, programmes and projects.

Those who work in private, academic institutions, NGOs and not-for-profit water organizations, may also find the training program useful. Participants should be able to demonstrate a relationship of their work with the core theme and have a minimum of 2 years of experience in the relative field.

## COURSE STRUCTURE

The course is comprised of four modules:

1. Introduction and technical aspects of water management
2. Sanitation and Disease Prevention, including including COVID-19 pandemic response
3. Climate Change and Disaster risk prevention in relation to IUWM
4. Institutional development and action-planning for IUWM

### Virtual site visits (TBC)

Jurang(Seoul) or Chuncheon(Gangwon Province) Wastewater Treatment Center

Water Source Managment : Soyang Hydro-dam (Chuncheon)

Water Treatment Facilities : Seoul Arisu Water Purification Center

## PRE-COURSE ACTIVITIES

Applicants to the programme are required to prepare an outline of the case study that they will present during the training should they be selected as a training attendant. The case selected should be directly related to the participants' work, his/her organization, preferably situated in the city where he/she works.

A 1-page outline, A4 format, single space, Arial font size 11)to be attached to the application should describe the context and local conditions, the objective, implementation strategy, results, challenges and opportunities.

Course participants are requested to bring relevant data, information, statistics from their respective cities to be used during the training sessions with a view of developing action plans.

## TRAINING FORMAT

*Due to the COVID-19 situation, international travelling has been restricted. The course will be organized in form of an online-course (via Zoom) with a combination online lectures , individual assignments, facilitated and online group discussions.*



*Photo: A restored wetland in Gangwon province*

## ORGANIZING INSTITUTES

### IUTC

The International Urban Training Center (IUTC), officially launched on 3 May 2007 as a collaboration between UN–Habitat and Gangwon Provincial Government, Republic of Korea, aims to build the capacity of local governments, particularly in the Asia-Pacific region, to pursue sustainable urbanization in line with the United Nations Sustainable Development Goals.

With a focus on sustainable urban development, the IUTC provides cutting-edge training courses and materials for city leaders, policy makers and urban planners.

The IUTC's core curriculum focuses on environmental restoration and strategic approaches to urban planning, developing and maintaining ecologically sound communities. The centre is devoted to promoting civil and human rights, decent housing as well as waste, water, sanitation, health and education services to environmentally, economically, and socially inclusive communities mainly for the participants of the countries in the Asia-Pacific region.

In order to strengthen implementation capacity of the IUTC alumni's institution and/or communities, the centre and UN-Habitat have been extending the training scope into more practical areas, such as in-country training workshop and seed money projects in the developing countries based on the annual demand survey.

### UN-Habitat



The United Nations Human Settlements Program (UN-Habitat) is the United Nations agency for human settlements. It is mandated by the UN General Assembly to promote socially and environmentally sustainable towns and cities with the goal of providing adequate shelter for all. The Capacity Development and Training Unit (CDTU) combines knowledge, research, tools, skill development and training of the New Urban Agenda partners training institutions and UN-Habitat staff into a coherent capacity development strategy focusing on cities, making use of all the knowledge and information generated from the agency.





## TRAINING COORDINATORS AND TRAINERS

### Daniel Adom, UN-Habitat, Trainer



Dan Adom is a senior water management expert who holds a PhD degree in Water Resource Engineering from the Polytechnic of Milan in Italy, and have worked in the water resources management as well as the water supply and

sanitation sectors for over 35 years. He worked as Chief Technical Advisor for the UN-Habitat Water for Cities Programme and coordinated interventions on water and sanitation in about 17 cities spread over 12 countries in Africa (at national and subnational levels). Prior to working with UN-Habitat, Dan held senior positions in water management bodies in Ghana including Executive Secretary of the Water Resource Commission and Head of Planning and Research at the Ghana Water and Sewerage Corporation, where he led a planning team on policy formulation and strategic planning for the urban water supply sector, as well as on the identification, planning and implementation of water supply systems all over the country. During the period working for UN-Habitat, Dan has coordinated and led many training in integrated urban water management for various target groups.

### Kim Yeonghoon, IUTC, coordinator



Kim Yeonghoon is the IUTC training course coordinator with 30 years of experience in higher and adult education programme as well as sustainable economic development. He takes care of

many aspects of the training course's logistic organization, arranges field visits and invites guest lectures from Korean institutions. He's a caring and humorous person who takes the safety and well-being of the training participants as his happiness.

### Collaborating institutions and network

The course will involve contributions from various Korean institutions related to water management including:

- ♦ Gangwon Institute of Health and Environment
- ♦ Kangwon National University
- ♦ Korean Institution on Climate Change

Experts from regional network on IWM in Asia and Pacific region are also contributing to the training programme.



### Trang Nguyen, UN-Habitat, coordinator



Trang Nguyen holds a Master Degree in Natural Resource Management and has been working in sustainable development for over 20 years. She has wide range of experience in poverty

alleviation, climate change mitigation and adaptation, watershed management, environmental assessment, planning and coordination and capacity building for local government and civil society groups. She has worked with national and local governments, development NGOs, bilateral donors, UNEP and is currently a project manager of the Capacity Development and Training Unit, UN-Habitat.

## HOW TO APPLY



Applicants must fill out the application form and submit by **10 November 2020** to:

♦ Mr. Yeonghoon Kim <[bluesky11301@naver.com](mailto:bluesky11301@naver.com)>

♦ Ms. Trang Nguyen <[Trang.Nguyen@un.org](mailto:Trang.Nguyen@un.org)>

*(Please send your application documents to both email accounts mentioned above).*

Each applicant is requested to submit:

- An application form (typed, not handwritten) submitted in MS Word format, not PDF, or JPEG.
- A 1-page outline summarizing the applicant's case study on the planning, policy, projects in the areas of drinking water, wastewater and sanitation including data, indicators, operating system analysis or monitoring of policy outcomes.



## SELECTION CRITERIA

Applications will be considered based on the following criteria:

- ⇒ Demonstrated professional experience in water management, utilities and/or sanitation in cities.
- ⇒ Nomination of an appropriate person who is able to participate effectively in the course and lead the subsequent process of integrating water management actors in their cities.
- ⇒ The nominees must be conversant in English.
- ⇒ Only the persons submitting their case study report will be considered as qualified applicants.



## KEY TIMELINE



### ***IUTC Eco-complex (International Urban Training Center)***

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