

COURSE INFORMATION

2026 JOINT CAPACITY BUILDING PROGRAM FOR NEXT GENERATION WATER SECURITY LEADERS *with a Focus on Groundwater*

1. ABOUT THE PROGRAMME

Groundwater accounts for ~99% of the world's liquid freshwater yet faces accelerating depletion, contamination, and climate-driven stress. This intensive week-long programme equips future water leaders from developing countries with practical skills in sustainable groundwater quantity and quality management, combining classroom lectures, laboratory tours, and field visits to Korea's most advanced water management facilities.

2. OBJECTIVES

To nurture the next generation of water security leaders through groundwater management education

3. PROGRAM OVERVIEW

- **(Theme)** Sustainable Quantity and Quality Management of Groundwater in the Era of Water Bankruptcy
- **(Date)** June 29(Mon) – July 4(Sat), 2026
- **(Venue)** Daejeon(KIGAM) & Jeju Island
- **(Target)** Graduate students from developing countries enrolled in Korean universities(Water Resources / Groundwater major)
- **(Participants)** 10 trainees selected through open competition
- **(Language)** English
- **(Fees)** All programme costs fully covered by UNESCO i-WSSM & KIGAM(**Organizers**) UNESCO i-WSSM¹, KIGAM²

3. PROGRAM SCHEDULE (Tentative)

Date	Time	Schedule
Arrival & Orientation, Opening Ceremony, Lecture, & Field Visits		
29 June (Mon)	Morning	[Orientation & Opening Ceremony]
	Afternoon	[Lecture] AI Groundwater Science: Aquifer Basics to Deep Learning (Part 1) [Lecture] AI Groundwater Science: Aquifer Basics to Deep Learning (Part 2)
Lecture, Field Visits, & Lab Practical		
30 June (Tue)	Morning	[Lecture] Managed Aquifer Recharge & Climate Change Adaptation [Field Visit] KIGAM Geological Museum
	Afternoon	[Lab Practical] Pumping, Sampling & Water Quality Analysis [Field Visit] K-water (IWRM Center, Drought Center, Groundwater Info Center)
Lecture & Field Visits in Jeju		
1 July (Wed)	Morning	<i>Move to Jeju</i> [Field Visit] Hancheon Artificial Recharge [Field Visit] Hanbark Reservoir
	Afternoon	[Lecture] Jeju Groundwater Monitoring [Field Visit] Horticulture Station (Rainwater Recharge) [Field Visit] Suwolbong Peak (UNESCO WH)
Lecture & Field Visits in Jeju		
2 July (Thu)	Morning	[Lecture] Jeju Wastewater Reuse [Field Visit] Jeju Western Wastewater Plant
	Afternoon	[Field Visit] Geomun Oreum (UNESCO WH) [Field Visit] Groundwater Drilling Site [Field Visit] Cheonjaeyeon Waterfall Goodbye Dinner
Closing Ceremony, Cultural Tour, & Return		
3 July (Fri)	Morning	[Closing Seminar] Discussion & Feedback [Closing Ceremony]
	Afternoon	[Cultural Tour] Manjanggal Lava Tube
4 July (Sat)	[Return to Seoul/Gimpo]	

※ The above programme is subject to change during the consultation process.

4. IMPLEMENTATION METHOD

- **(Open Recruitment)** Trainees are selected through an open application and competitive review process.
- **(Pre-learning)** Completion of 3 online video modules (~35 min total) and submission of a written assignment via i-WSSM prior to the program.
- **(Country Report)** Each participant presents the groundwater management status and challenges of their home country (individual presentation, replacing group assignment).
- **(Lead Instructor)** Dr. Kim Yong-cheol of KIGAM Groundwater Research Center oversees all lectures and field visits.
- **(Role Division)** i-WSSM: trainee selection, program operation, satisfaction survey, budget management. KIGAM: curriculum planning, trainee coordination, program operation, budget management.

6. CONTACT INFORMATION

- **UNESCO I-WSSM**
Ms. Myengwha Kim, Programme Officer
Tel: 031-8050-4944
Email: edu@unesco-iwssm.org
- **UNESCO I-WSSM**
Ms. Jiwon Kim, Programme Officer
Tel: 031-8050-4957
Email: edu@unesco-iwssm.org