Water Security in an Era of Global Crisis

Kyung Hee University

2021 Online Summer Program

Short Intensive Course

Course Schedule
July 5th – 9th, 2021

Application Deadline
June 15th, 2021

Contact

E. exchange_gc@khu.ac.kr T. +82-31-201-3968 F. +82-31-201-3969 H. www.khu.ac.kr/eng
1732, Deogyeong-daero, Giheung-gu, Yongin-si, Gyeonggi-do 17104, Republic of Korea

Water Security in an Era of Global Crisis

About the Course

While global water demand has been ever increasing, more areas all over the world are facing water stress, where both humans and ecosystems are suffering from the lack of water and/or its low quality. Recent global crises further aggravate many issues related to water scarcity. The COVID-19 pandemic has been striking all aspects of our life and the viral pathogens detectable in water may imply their potential transmission through urban water cycles. Climate change causes frequent and severe flooding, typhoons, and droughts, significantly affecting global water sustainability. In line with the Sustainable Development Goal 6 (ensuring availability and sustainable management of water and sanitation for all) established by the United Nations, Kyung Hee University (KHU) aims to provide an international online educational platform towards ensuring global water security. This short-intensive course brings diverse aspects of water resource management, water quality engineerings and international cooperation/policy-making that can improve global water security against recent challenges such as pandemic diseases and climate change.

Course Schedule

July 5th – 9th, 2021 (One week)

Application & Deadline

June 15th, 2021
https://docs.google.com/forms/d/1P3plvBHk7fJ1sIdqwtioJCNJlm0sdcGedMFgDo73y6E/edit

Course Fee

100,000(KRW) for course registration(no tuition fee)

- Bank Name: HANA BANK
- Bank Address: 1 Seocheon-dong, Giheung-gu, Yongin-si Gyeonggi-do 446-701, Korea
- Swift Code: KOEXKRSE
- Name of Account Holder: Kyung Hee University Global Campus (경희대학교국제캠퍼스)
- Account Number: 428-141962-00404

Prospect Participants/Attendees

The course is open to undergraduate students (freshman to senior) with any major across countries and officials, professionals, and scientists/engineers who are interested in future directions in water management and technology.

Course Activities

The course consists of i) core lectures from KHU professors, ii) topical seminars presented by guest lecturers from other universities, national research centers, and non-governmental organizations, and iii) mentor-guided discussions on various specialized topics. The course brings together both internal (KHU) and guest scholars/experts from diverse countries (e.g., US and Asian countries). Course participants will be able to interact with the instructors in their interdisciplinary approach towards sustainable water management. Upon completion of all class hours and submission of a short essay, students will be given a certificate in which total hours and grades are shown.

Time Table(Tentative)

<table>
<tr><th rowspan="2">TIME
&
DATE</th><th>MON</th><th>TUE</th><th>WED</th><th>THU</th><th>FRI</th></tr>
<tr><th>July 5</th><th>July 6</th><th>July 7</th><th>July 8</th><th>July 9</th></tr>
<tr><td>10:00-11:00
(KST)</td><td>[Orientation]
Course Introduction</td><td rowspan="2">[Lecture 2]
Climate Change, Impacts and Adaptation</td><td rowspan="3">[Lecture 5]
Drinking Water Distribution Network: from Theory to Application</td><td rowspan="2">[Lecture 7]
Sustainable Wastewater Treatment Systems</td><td rowspan="2">[Lecture 9]
Green Approaches for Climate Change and the COVID-19 Pandemic</td></tr>
<tr><td>11:00-12:00
(KST)</td><td>[Special Lecture 1]
Introduction of Sustainable Development and SDGs: Theory and Policy Implications</td></tr>
<tr><td>13:00-14:00
(KST)</td><td>[Lecture 1]
COVID-19 and Other Zoonotic Disease Transmitted through Water and Environments</td><td>[Lecture 3]
Reservoir Management to Enable Sustainable Provision of Clean Water: Case Study Duriangkang</td><td rowspan="2">[Special Lecture 2]
Water Digitalization for the Future World</td><td>[Special Lecture 3]
Korean Wave: K-Pop</td></tr>
<tr><td>14:00-15:00
(KST)</td><td></td><td rowspan="2">[Lecture 4]
Drinking Water Treatment</td><td rowspan="2">[Lecture 8]
Ground Water: Pollution and Remediation Strategies</td><td rowspan="2">[Closing]</td></tr>
<tr><td>15:00-16:00
(KST)</td><td></td><td>[Cultural Exchanges] (2hr)</td></tr>
</table>

Courses

	Title	Hours	Instructor
1	COVID-19 and Other Zoonotic Diseases Transmitted through Water and Environments	1	Dongwan Yoo UIUC, U.S
2	Climate change, Impacts and Adaptation	2	Gayoung Yoo Kyung Hee University
3	Reservoir Management to Enable Sustainable Provision of Clean Water: Case Study Duriangkang Dam, Batam City	1	Doddi Yudianto UNPAR, Indonesia
4	Drinking Water Treatment	2	Seok-Oh Ko Kyung Hee University
5	Drinking Water Distribution Network: from Theory to Application	2	Doosun Kang Kyung Hee University
6	Towards Sustainable Management of Urban Water Cycle: Wastewater Engineering and Water Reclamation	2	Seungdae Oh Kyung Hee University
7	Sustainable Wastewater Treatment Systems	2	Booki Min Kyung Hee University
8	Ground Water: Pollution and Remediation Strategies	1	Rheo B. Lamorena-Lim Univ. of the Philippines-Diliman
9	Green Approaches for Climate Change and the COVID-19 Pandemic	2	Hyungna Oh Kyung Hee University
	Total hours	**15**	

Special Lectures & Cultural Exchanges

	Title	Hours	Instructor
1	Introduction of Sustainable Development and SDGs: Theory and Policy Implications	1	Young-Woo Park EcoMom Korea, NGO
2	Water Digitalization for the Future World	1	Kyung-Hyuk Lee K-Water Research Institute
3	Korean Wave: Live	1	Yoonhan Jeon Kyung Hee University
4	Cultural Exchanges	2	With Local Students
	Total hours	**5**	

Contact

Kyung Hee University

Office of International Affairs, Global Campus

1732, Deogyeong-daero, Giheung-gu, Yongin-si, Gyeonggi-do 17104, Republic of Korea

E. exchange_gc@khu.ac.kr **T**. +82-31-201-3968 **F**. +82-31-201-3969 **H**. www.khu.ac.kr/eng