

## **COURSE OUTLINE Water and Civilizations. History of Water on Earth**

EDUCATION LEVEL	7		
CODE	MODULE 534op	WBCC-	SEMESTER 2 <sup>nd</sup>
TITLE	Water and Civilizations. History of Water on Earth		
TEACHING ACTIVITIES	HOURS/WEEK		ECTS
Lectures	3		6
TYPE OF COURSE	Elective course (in both specializations)		
PREREQUISITE KNOWLEDGE	-		
LANGUAGE OF INSTRUCTION AND ASSESSMENT	Greek		
AVAILABILITY TO ERASMUS STUDENTS	-		
WEBSITE (URL)	<a href="https://eclass.uoa.gr/courses/GEOL584/">https://eclass.uoa.gr/courses/GEOL584/</a>		

### LEARNING OUTCOMES

#### Learning Outcomes/Subject Specific Competences

This course "touches upon" various scientific fields to introduce various aspects of culture, geopolitics, and ethics related to water management. From the creation of the first civilizations to the achievements of the 21st century, water serves as a source of myths, politics, religions, conflicts, ethics, nutrition, cultural differences, as well as intercultural cooperation leading to what is referred to as "Water Wisdom". During the course, topics such as symbolism, sanctity, legends, and linguistic components that create the cultural significance of water are discussed. Upon completion of the elective course, students will be able to:

- Understand the contribution of water and water resources to the shaping and evolution of civilizations.
- Interpret the significance of water in the selection of urban and residential centers.
- Comprehend the ethical ethics of water.
- Recognize water as a social and economic good.
- Explore the development of cities and settlements near water resources.
- Appreciate the cultural heritage values of water.
- Investigate the material and immaterial aspects of heritage in water resources and their regions.
- Promote intercultural communication about water.
- Develop standards for water management and sewage in tourism development.
- Evaluate the historical elements of water supply and sewage to highlight the longevity of water collection and distribution structures.

#### Generic Competences

- Search, analysis, and synthesis of data and information
- Development of critical thinking
- Comparison and search for bibliographic sources
- Cultivation of teamwork through discussion circles and group work
- Promotion of originality in work
- Respect for diversity and multiculturalism
- Respect for the natural environment
- Promotion of free, creative, and inductive thinking

#### COURSE CONTENT

The goal of this course is to provide students with knowledge of the different turning points in the historical, cultural, and intellectual evolution of humanity due to water management. Students will learn and understand the historical journey of civilizations in relation to water resources, spatial planning, and the issue of water conservation within the context of modern society and climate change. They will also delve into the interpretation of the material and immaterial cultural heritage of water.

#### Educational objectives:

- Introduction – Research Methods – Basic Characteristics of Water – Human Impacts and Needs
- Historical Overview: Ancient Civilizations, Byzantine Empire - Arab Expansion
- Historical Overview: Middle Ages - Renaissance
- Historical Overview: 19th Century and Early 20th Century (Industrial Revolution)
- Post-War Period until the Late 20th Century
- 21st Century: The issue of water conservation in the context of climate change, integration of water into spatial planning
- Water as tagible and intangible cultural heritage

#### LEARNING ACTIVITIES - TEACHING and ASSESSMENTS METHODS

MODE OF DELIVERY	Distance learning	
USE OF INFORMATION AND COMMUNICATION TECHNOLOGY	Use of ICT in teaching, applications, and communication with students. Use of the e-class platform and presentations with multimedia content (images, animation, video).	
PLANNED LEARNING ACTIVITIES	Activity	Semester Workload
	Lectures- interactive teaching	3 hrs x 13 weeks
	Study & analysis of literature	60 h
	Individual Project	60 h
	Total	159 h
ASSESSMENT METHODS AND CRITERIA	The evaluation process includes: Individual Semester Project: This involves a verbal presentation of the project to the entire class and instructors, as well as the submission of a project document. The project document should be approximately 3000-4000 words in length and may include supplementary images, figures, diagrams, maps, or any other materials deemed necessary by the students. This individual semester project constitutes: 100%.	

#### TEXTBOOKS - BIBLIOGRAPHY

Dendle, P.; Touwaide, A. (2008). Health and Healing from the Medieval Garden. U.K.: The Boydell Press

Donahue, J.; Johnston, B. (1998). Water, Culture & Power: Local Struggles in a Global Context, Island Press

Groenfeldt, D. (2015). Why Cultural Diversity Matters for Healthy Rivers

Groenfeldt, D. (2010). When Good People Do Bad Things: Confronting Western Water Culture. Anthropology News

Gruben, G. (2000). Ιερά και Ναοί των Αρχαίων Ελλήνων (μετάφραση Ακτσελή, Δ.). Αθήνα: Ινστιτούτο του βιβλίου- Α. Καρδαμίτσα

Kluckert, E. (2009). European Garden Design: From Classical Antiquity to the Present Day. Konemann eds

Krautheimer, R. (1991). Παλαιοχριστιανική και Βυζαντινή Αρχιτεκτονική (μετάφραση Μπούρας, Χ.). Αθήνα: Copyright για την Ελλ. Εκδ. Μορφωτικό Ίδρυμα Εθνικής Τραπέζης

Levi, E. (2001). Η Επιστήμη του νερού. Αθήνα: Τεχνικό Επιμελητήριο Ελλάδος

Mithen, S.; Black, E. (2011). Water, Life and Civilisation: Climate, Environment and Society in the Jordan Valley. Cambridge University Press

Norberg-Schulz, C., (2009). Το Πνεύμα του Τόπου. Για μια φαινομενολογία της Αρχιτεκτονικής. (μετάφραση Φραγκόπουλος, Μ.). Αθήνα: Ε.Μ.Π. Πανεπιστημιακές Εκδόσεις

Raporort, A. (2009). Ανώνυμη Αρχιτεκτονική και Πολιτιστικοί Παράγοντες (μετάφραση Φιλιππίδης, Δ.). Αθήνα: Μέλισσα

Shiva, V. (2011). Πόλεμοι για το νερό. Αθήνα: Εξάρχεια

Strang, V.(2015). Water: Nature and Culture. Reaktion Books

Vujica Yevjevich, Water and Civilization, Water International, V.17, 1992

Vuorinen H.S. (2007). Water and health in antiquity: Europe's legacy. Environmental History of Water -Global view of community water supply and sanitation, P.S. Juuti, T. S. Katko and H. S. Vuorinen (eds.). IWA Publishing, pp. 49-71.

Vuorinen, H.S. (2007). Water and health in antiquity: Europe's legacy. Environmental History of Water -Global view of community water supply and sanitation, P.S. Juuti, T. S. Katko and H. S. Vuorinen (eds.). IWA Publishing, pp. 49-71

Watkin, D. (2009). Ιστορία της Δυτικής Αρχιτεκτονικής (μετάφραση Κουρεμένος, Κ., εποπτεία Τουρνικιώτης, Π.). Αθήνα: Μορφωτικό Ίδρυμα Εθνικής Τραπέζης

Yevjevich, V. (1992). Water and Civilization, Water International, V.17

Ζαφειροπούλου, Ν. (2000). Περί υδάτων: Το νερό στο Βυζάντιο. Αθήνα: Υπουργείο Πολιτισμού. Ταμείο Αρχαιολογικών Πόρων και Απαλλοτριώσεων

Κοπανιάς, Κ. (2015). Εισαγωγή στην Ιστορία και Αρχαιολογία της Εγγύς Ανατολής. Έκδοση ebook: ΣΕΑΒ, ΚΑΛΛΙΠΟΣ

Μουρατίδου, Γ., Δουδούμη, Κ. (2008). Το νερό στην αρχιτεκτονική του αστικού τοπίου. Θεσσαλονίκη: Ζήτη

Μπούρας, Χ. (1999). Μαθήματα Ιστορίας της Αρχιτεκτονικής. Αθήνα: Συμμετρία

Πετρονώτης, Α. (2019). Η μνήμη του νερού. Οι ροοκρήνες της Αρκαδίας. Αθήνα: Θίνες

Τουρνικιώτης, Π. (2006). Η αρχιτεκτονική στη Σύγχρονη Εποχή. Αθήνα: Futura  
<https://www.mixanitouxronou.com.cy/categories/kinonia/i-kolonia-archika-chrisimopoiithike-ston-mesaiona-gia-tin-prostasia-apo-tin-panoli-giati-to-proto-aroma-onomastike-rozmari-kai-to-dimofilestero-ydor-tis-kolonias/>  
[http://photodentro.edu.gr/photodentro/eikon3\\_pidx0041709/world3/library.htm](http://photodentro.edu.gr/photodentro/eikon3_pidx0041709/world3/library.htm)  
<https://www.elculture.gr/blog/article/mesaiwnikoi-kipoi/>  
<https://www.romeingreek.eu/?p=16982>  
[https://www.gardenmagazine.gr/theories\\_ton\\_kipon\\_tis\\_anagennisis\\_meros\\_a\\_-la-236.html](https://www.gardenmagazine.gr/theories_ton_kipon_tis_anagennisis_meros_a_-la-236.html)

<https://www.documentonews.gr/article/online-diadrastikh-perihghsh-ston-khpo-twn-epigeiwn-apolaysewn-toy-ierwnymoy-mpos>  
European garden design from classical antiquity to the present day  
[https://www.huffingtonpost.gr/2015/08/06/diethnes-diwryga-soyez-istoria\\_n\\_7946642.html](https://www.huffingtonpost.gr/2015/08/06/diethnes-diwryga-soyez-istoria_n_7946642.html)  
<https://astrospalio.gr/uploads/Panama%20canal.pdf>  
<http://users.sch.gr/gargyriou/yliko-d/glossa/enotita2/laikh%20paradosh.pdf>  
[http://nerakinero.blogspot.com/2012/11/blog-post\\_3625.html](http://nerakinero.blogspot.com/2012/11/blog-post_3625.html)  
<https://esquire.com.gr/epikairotita/periballon/4618/o-polemos-tou-nerou-einai-idi-edo>