



MASTER

**ON "WATER'S AWARENESS,
CONSCIOUSNESS, KNOWLEDGE
AND MANAGEMENT"**

SCIENTIFIC DIRECTOR
PROF. **ALESSANDRO LETO**

**WATER
ACADEMY
SRD**

SUSTAINABLE
AND RESPONSIBLE
DEVELOPMENT

MASTER ON “WATER’S AWARENESS, CONSCIOUSNESS, KNOWLEDGE AND MANAGEMENT”

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MASTER

GOALS AND PROFESSIONAL OBJECTIVES

Water Academy SRD has conceived and developed a Master degree in Water's Awareness, Consciousness, Knowledge and Management, provided by UniNettuno.

This Master course offers high-level holistic training for themes connected with water and water resources, making it possible for students to acquire solid knowledge of the issues addressed, articulated along two main branches: knowledge of the value of this fundamental, though hardly unlimited, resource; as well as an expanded, inclusive approach to water as the primary source of life.

Reaching beyond the traditional distinction between *Scientia et Experientia* (because knowledge also means experimentation), the course offers a synthesis of teachings useful to achieve an effectively integrated, balanced and in-depth knowledge of water management and development. This allows students to recognize analogies and differences between problems and issues that are cyclically recurrent and often in their own origin matrixes, but which appear different each time in their individual spatio-temporal manifestations.

The Master course provides preparation centered on values and knowledge of a global nature, but with verticalizations and applications at the local level, helping students get used to reasoning according to priorities inherent to the different contexts they'll find themselves working in.

Supplementary contributions from entrepreneurs, managers, civil servants, diplomats and intellectuals supply the necessary connections between theoretical training and practical application, and are designed to facilitate and consolidate a widespread network of human and social relationships on an international level.

Therefore, the aim of this Master is to prepare and train people capable of dealing with a new, valuable approach methodology for the many themes connected with the valorization, recovery and management of water in the work world, and in the following sectors in particular:

- Agricultural and industrial companies
- Construction companies
- Local governments, administrations and agencies
- International governmental and non-governmental organizations
- Multilateral bodies and institutions
- Journalism, publishing and multimedia.

REQUIREMENTS

Students wishing to enroll in this master course must have earned a triennial university degree or its equivalent. The Master course is also intended for people already actively working.

SCIENTIFIC DIRECTOR

Prof. Alessandro Leto

LEARNING METHODOLOGY

The Internet-based training activities take place in a web-based macro-area which is called the Didactic Cyberspace. In the Didactic Cyberspace the training and learning process takes place and accesses are diversified through customized login and password based on the role of the players of the educational path: professors, tutors and students. These three categories of users can access the same information regarding each subject. The three user's profiles can access the same information related to each module. More specifically, the professor and tutor can modify or replace training materials and add new ones for the whole course duration, whereas the student can dispose of an area of his own where he can include data, information and personal notes.

In the pages related to each Module there are the Learning Environments where is possible to access:

- **Training Materials** which represent the course contents: digitized video lessons including bookmarks allowing for hypertextual and multimedia linking to books, selected bibliographical references, texts of the exercises, lists of selected websites. The system of dynamic bookmarks gives the Internet-based video lessons a hypertextual character allowing different levels of navigation: from one lesson to the other one, among subjects of a single lesson, between the materials referring to the same subject.
- **Distance Tutoring.** The students enrolled in the Master's course will be assisted in every step of their study path by professors-tutors. The Telematic professor-tutor, represents a guide as well as a constant presence along the Learning Process. The distance tutoring activities can take place:
 - in a synchronic manner, by using chats, videochats, video and audio-conferencing, implemented in the Didactic Cyberspace, but also the three-dimensional classroom created on the UniNettuno Island of knowledge on Second Life.
 - in a diachronic manner, through Internet-based forums. The Internet-based forums, related to the topics of the video lessons, allow the students to play an active role in discussions and develop collaborative learning.
- **Virtual Classroom in UniNettuno Island of Knowledge on Second Life.** On UniNettuno (International Telematic University) Island of Knowledge a 3D lecture hall was realized and it is devoted to this Master's courses. In this environment the students and professors/tutors' avatars interact in the three-dimensional world of UniNettuno by their voice. Practice work, assessment tests, collaborative learning models guided, in real time, by the teachers/tutors' avatars take place.
- **Interactive classrooms:** In Interactive Classrooms teachers and students live in an immersive-collaborative educational dimension. The students utilize interactive tools, they carry on practice work, mid-term assessment tests, exam simulations, they discuss and learn in a cooperative and collaborative way and become active constructors of knowledge. Interactive Classrooms allow teachers and students for adopting various educational interaction modes:
 - Flipped Classroom
 - Teaching processes and procedures
 - Collaborative project work
 - Exams tests simulations

TRAINING ACTIVITIES STRUCTURE

The Master's Course lasts 1 academic year corresponding to a total amount of 60 credits including video lessons, seminars, exercises, videoconferences, tutored activities, research work.

The courses are divided into two main modules:

- 1. Water Knowledge and Experiences**
- 2. Water Awareness and Management.**

The courses are delivered by video lecturers with the assistance of qualified tutors who will assist the students online in the Didactic Cyberspace along their entire training period. Each course ends with a final assessment test whose result contributes to the awarding of the final mark to be admitted to the discussion of the course final thesis. The final thesis will deal with an issue agreed with the professor of the chosen subject.

The Master's Course will be delivered in English.

STUDY PROGRAM

1. WATER KNOWLEDGE AND EXPERIENCES

Course and issues	Lecturers	SSD	Credit
<p>Water and the development of civilizations in the Mediterranean Region up to the contemporary world</p>	Prof. Louis Godart	ICAR/18 (History of architecture) or L-FIL-LET/01 (Aegean civilizations)	10
<p>Sustainable and Responsible Development</p> <ul style="list-style-type: none"> ■ The genesis of the environmental culture and the publication of the Meadow's Report in 1970 ■ The birth of the concept of Sustainable Development and the Brüntland Report. The diffusion of the Rio's Agenda ■ The diffusion of the Rio's Declaration/Agenda XXI ■ The MDGs, their birth, the context and their diffusion ■ A new world, new priorities, new policies (after 9/11) ■ The delay in reaching the MDGs. Difficulties and contradictions. The SDGs ■ The birth of Sustainable and Responsible Development and its gradual diffusion, Earth Carrying Capacity, Water footprint and other indicators, Environmental Education, Rome's Charter 2016 ■ The interdisciplinary importance of water. Water and economy, water and society ■ The deep interaction of Water and Agriculture/Access to Water and Food Security ■ The importance of International Cooperation Processes and their evolution ■ The transition of the concept of Cooperation per Development: from Government to Government and from Government to people ■ The impact of Water's related crisis on the geopolitical scenario ■ Climate Change and Water related issues 	Prof. Alessandro Leto	M-GGR/02 (Political and Economic Geography)	10
<p>Geopolitics of Water</p> <ul style="list-style-type: none"> ■ Geopolitics of Water, a discourses approach ■ Cartography / GIS 	Prof. Alessandro Leto Prof. Giuseppe Scanu Dr. Romolo Pacifico	M-GGR/02 (Political and Economic Geography) ICAR/06 (Topography and Cartography)	4

2. WATER AWARENESS AND MANAGEMENT

Course and issues	Lecturers	SSD	Credit
Water in International Relations <ul style="list-style-type: none"> ■ Water in Cultural and Science Diplomacy ■ Natural Resources and International Law 	Prof. Alessandro Leto	SPS/04 (Political science)	8
Water and Seas <ul style="list-style-type: none"> ■ Oceans and Seas ■ Mediterranean Topics ■ Oceans' degradation and pollution 	Supervised by OGS Prof. Maria Cristina Pedicchio	GEO/12 (Oceanography and physics of the atmosphere)	8
Fundamentals of Hydraulics and soil conservation <ul style="list-style-type: none"> ■ Hydraulic constructions in civil and historical evolution (I part) ■ Hydraulic constructions in civil and historical evolution (II part) ■ Water demand and aqueducts needs ■ Underground water resources ■ Hydrology. Objectives and methods of drainage basins and geographical information systems ■ Rivers and their hydrologic characteristics ■ Hydraulic risks ■ Hydro-geological imbalance ■ Floods and society ■ Living with floods ■ Measures to mitigate flooding risks 	Prof. Luca Placidi Prof. Ugo Maione Prof. Goffredo La Loggia	ICAR/02 (Hydraulic constructions)	8
Health and Environmental Engineering <ul style="list-style-type: none"> ■ Characteristics of drinkable waters ■ Water purification treatments ■ Characteristics of waste-waters Seminars <ul style="list-style-type: none"> ■ VII World Water Day. The crisis of water systems: agro-industrial and civil supply ■ "The Planet's water supply: thoughts on the present and a glance to the future " Seminara, Giovanni 2007 University of Rome 'La Sapienza' - Department of Physics, Academic of Lincei. Other seminars will follow and will be implemented with the proceedings of Symposia and Conferences 	Prof. Ezio Ranieri	ICAR/03 (Health-environmental engineering)	3

Course and issues	Lecturers	SSD	Credit
<p>Applied ecology</p> <ul style="list-style-type: none"> ■ Fresh waters ■ The properties of water ■ Inflows, outflows and water supply ■ Underground waters ■ Water supply and the qualities of waters ■ Waters for civil uses ■ Free and non-free waters ■ The working of ecosystems: a sea perspective ■ Benthos ■ Plankton ■ Nekton ■ Protected marine areas ■ Pollution ■ Monitoring coastal waters <p>Seminars</p> <ul style="list-style-type: none"> ■ XV Week of Scientific and Technological Culture - The properties of water - Prof. Francesco Ghetti ■ VII World Water Day. The crisis of water systems: agro-industrial and civil supply 	<p>Prof. Pier Francesco Ghetti Prof. Ferdinando Boero</p>	<p>BIO/07 (Ecology)</p>	<p>10</p>
<p>Juridical scenarios for land policies</p>	<p>Prof. Sandro Amorosino</p>	<p>IUS/05 (Law of economics)</p>	<p>5</p>

HOW TO ENROLL

You can enroll directly on the Internet on www.wateracademysrd.com filling in a special online form and paying the relative fees by bank transfer; then you will be directly registered to the International Telematic University UniNettuno. The online administrative form manages all administration activities related to the student's career. The Secretariat will acknowledge enrollment sending an e-mail including matriculation number, User ID and Password.

Master's course enrollment will be opened from June 15, 2017.

Lessons of the first intake will be online from October 2, 2017.

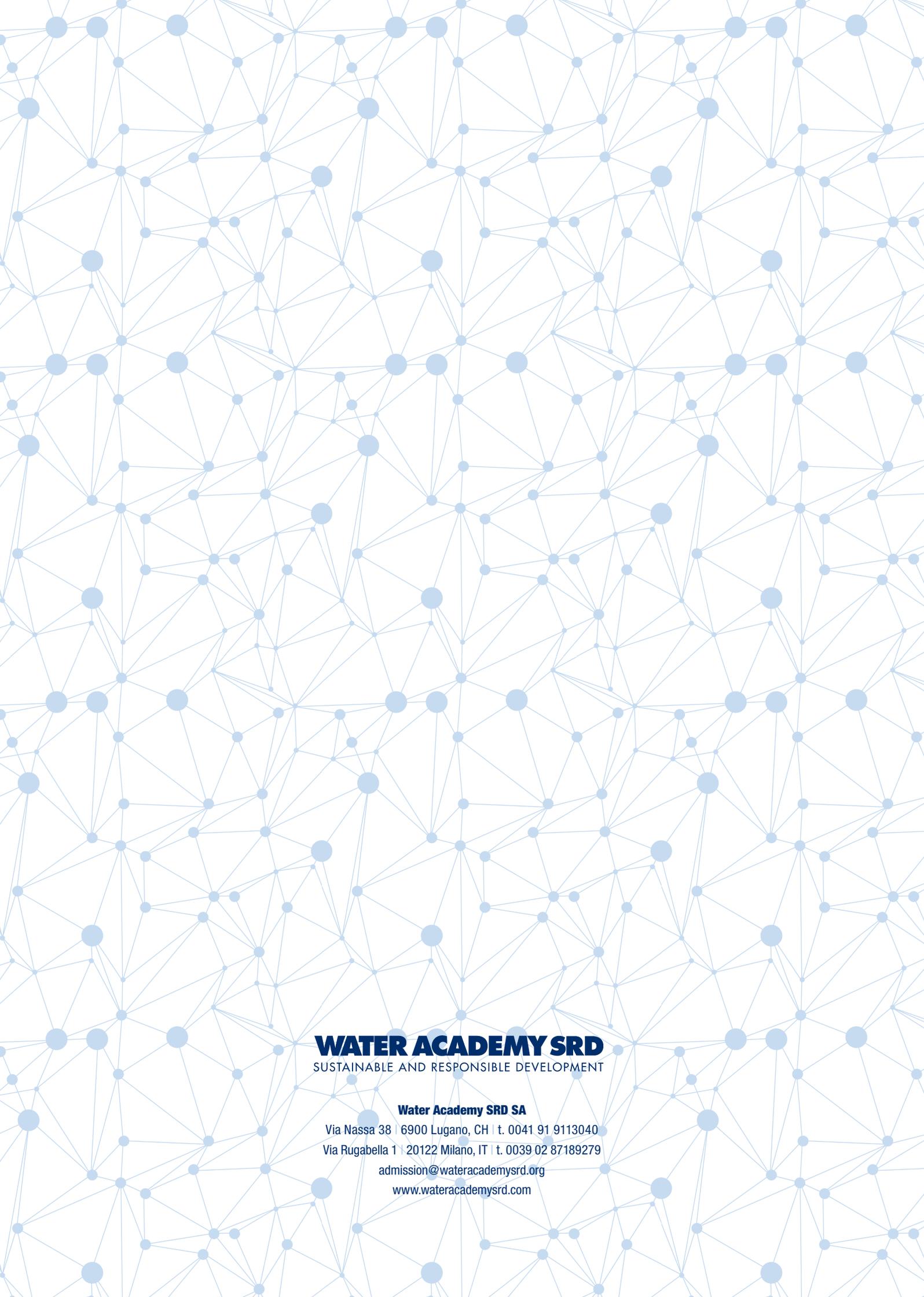
ENROLLMENT FEES

The enrollment fees to this Master's Course is € 10.000,00 to be paid as follow:

Euro 2.500,00 enrollment fee

Euro 4.500,00 by the 1st day of the Master's course

Euro 3.000,00 by the 30th day of the Master's course



WATER ACADEMY SRD
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