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UNIVERSIDADE
DE LISBOA

SUMMER SCHOOL

SCIENCE
ADDS
VALUE

**ONE OCEAN:
A MULTIDISCIPLINARY
APPROACH TO MARINE
AND COASTAL CHALLENGES**

3-7 JULY '23

Lisbon

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DE LISBOA



SUMMER SCHOOL

ONE OCEAN: A MULTIDISCIPLINARY APPROACH TO MARINE AND COASTAL CHALLENGES

What are the key concepts for addressing today's marine and coastal challenges? These daunting challenges require not only outstanding basic science research and analytical skills, but also the soft capacities of empathy and self-reflection that come from recognizing the plurality of human experience across time and space.

As we stand at the brink of a radical change, driven by an ecological and social crisis, any implementation strategies will need to encompass different knowledge domains and call for the collaboration of multiple actors. This can be achieved through an integrated transdisciplinary approach to learning, teaching and mentoring, based on individual disciplines, but with researchers from different fields working side by side in a truly vibrant and synergistic environment. Bringing together people with different expertise, the redeMAR ULisboa acts as instigator, incubator and integrator of ideas, knowledge and creative problem-solving related to the world's oceans and coastal areas. The redeMAR ULisboa Summer School, One Ocean: a multidisciplinary approach to marine and coastal challenges, offers therefore a unique moment to combine your talents with the resources of this ambitious group in a shared brainstorming experience about our common possible futures and to contribute to the development of knowledge-based solutions to face threats and create opportunities.

This way, we welcome undergraduate students from both international and national backgrounds who are eager to explore the current challenges of our Ocean from ecological, technological, societal, historical, and several other perspectives, regardless of their base area of knowledge or nationality. Graduate students are also invited, but their attendance will be subject to availability.

Join us for the state-of-the-art knowledge and enjoy Lisbon's vibrant social and cultural scene.



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PROGRAMME

3

JULY

MON

08:30 - 09:30

Reception and Opening Session

09:30 - 12:30

SCHOOL OF ARTS AND HUMANITIES

TELLING STORIES OF SEA, SAND AND PEOPLE

Combining history, archaeology and traditional ecological knowledge to look at the past and think about the future.

12:30 - 14:30

Lunch Break

14:30 - 17:30

SCHOOL OF LAW

SEA LEVEL RISE

Preparing an international legal framework for sea level rise: coping with climate change, rearranging state territory and searching for mechanisms to deal with conflicts.

4

JULY

TUE

09:30 - 12:30

IST TÉCNICO LISBOA

BLUE ECONOMY

Living and non-living Marine Resources and Renewables Energy.

12:30 - 14:30

Lunch Break

14:30 - 17:30

IST TÉCNICO LISBOA

MARINE ROBOTICS

From Technology to Science and Ocean Literacy (@Expo'98 Testing Site for Surface and Underwater Robots)

5

JULY

WED

09:30 - 12:30

INSTITUTE OF GEOGRAPHY AND SPATIAL PLANNING

MARINE AND COASTAL RISKS

Sea level rise, tsunami and coastal erosion: Main drivers, dynamics and impacts on the mainland Portuguese coastal systems and communities.

12:30 - 14:30

Lunch Break

14:30 - 17:30

FACULTY OF SCIENCES

MARINE BIODIVERSITY

Pollution and climate change as the main challenges to marine biodiversity conservation, and blue carbon as a potential solution to sustain ecosystem functions and limit biodiversity loss.

6

JULY

THU

09:30 - 12:30

INSTITUTE OF EDUCATION

OCEAN LITERACY

The multidimensional concept of ocean literacy, the different dimensions involved and how it could be promoted and assessed; Some examples of projects and resources focused on the promotion of ocean literacy.

12:30 - 14:30

Lunch Break

14:30 - 17:30

INSTITUTE OF SOCIAL SCIENCES

OCEAN NEXUS

As coastal states expand their territories into the ocean, the ocean expands its waters onto the land due to sea level rise, challenging the increasing urban and human occupation of coastal land. Which strategies and knowledge are at stake in the ocean-land nexus?

7

JULY

FRI

ALL DAY

SCHOOL OF ARTS AND HUMANITIES - FACULTY OF SCIENCES

FIELD TRIP

1. Visit to Cresmina Dunes (Guincho)
2. Visit to Marine biodiversity in intertidal rocky shores
3. Brown Bag Lunch
4. Visit the Maritime Museum Rei D. Carlos



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MEET OUR SCHOOLS



FACULTY OF SCIENCES

Established in 1911, has the mission to expand the boundaries of knowledge in science and technology, spreading this knowledge to society and enhancing our students' education through research and by fostering a culture of lifelong learning, promoting critical thinking and intellectual independence. The school fosters courses and research in 7 scientific areas of Life Sciences, Earth Sciences, Chemical Sciences and Technologies, Physical Sciences and Engineering, Mathematical Sciences, Computer Science and Engineering, and History and Philosophy of Sciences.



SCHOOL OF LAW

Was founded in 1913. It has been located in its current building at Cidade Universitária since 1957-58. In 2000, it underwent renovations and expansion, providing the space with a fully computerised library, research offices, new lecture halls, a conference hall and a moot court room. The Faculty of Law has five research units: CIDEEFF – Centre for Research in European, Economic, Financial and Tax Law; CIDP – Lisbon Centre for Research in Public Law; CIDP – Centre for Research in Private Law; CIDPCC – Research Centre for Criminal Law and Criminal Sciences; and IURIS – Interdisciplinary Research Institute.



SCHOOL OF ARTS AND HUMANITIES

Is the largest of its kind in Portugal. It acquired its current name in 1911, when it succeeded the School of Letters, created in 1859 by King Pedro V. Its teaching and research have always focused on the main areas of the humanities. It understands that a truly liberal education implies a humanistic and scientific training, and that there is no true university without a liberal education. The School, with its seven departments, eight programmes, ten research centres and four chairs (with external funding), is organised into four main areas (Languages, Philosophy, History and Literatures, Arts and Cultures).



INSTITUTE OF SOCIAL SCIENCES

Is an internationally renowned research institution with an interdisciplinary interest in Social and Cultural Anthropology, Economics, History, Human Geography, Political Science, Social Psychology, and Sociology, organised into 7 Research Groups. It carries out innovative research into contemporary societies, post-graduate education, and outreach activities. Since 1996, it has always been rated Institution of Excellence by international FCT panels and in 2021 its statute as Associate Laboratory of the Ministry of Science, Technology and Higher Education (held since 2001) has been renewed for 10 years. In 2018, it became a member of the European Alliance for Social Sciences and Humanities (EASSH).



INSTITUTE OF EDUCATION

Is the school of the University of Lisbon dedicated to research, training and intervention in Education and Training in Portugal. It provides training activities in undergraduate and graduate programmes in different fields of Education and Training and advisory and training services to educational organizations at different levels of teaching, as well as scientific and technical support for the design, monitoring and evaluation of public education and training policies, namely in the areas of curriculum, didactics, assessment, teacher education and school administration. Since 2018, the UIDEF, the research unit of the IE, has participated in more than 50 national and international research funded projects.



INSTITUTE OF GEOGRAPHY AND SPATIAL PLANNING

Is the School of Geography and Spatial Planning of the University of Lisbon and is the only one in Portugal entirely dedicated to teaching and research in these fields. The IGOT's mission is to ensure university education, research, dissemination of knowledge and provide technical and specialized research in geography, spatial planning and territorial organization, policy development and territorial cohesion, urban planning, climate change and environmental systems, resources and risks, and on the socio-spatial dynamics. IGOT includes the Centre for Geographical Studies (CEG), the most prestigious national research unit in geography, established in 1943.



IST TÉCNICO LISBOA

Instituto Superior Técnico aims to contribute to the development of society, promoting and sharing excellence in higher education in the fields of Architecture, Engineering, Science and Technology. Técnico offers Bachelor, Master and PhD programmes, lifelong training and develops Research, Development and Innovation (RD&I) activities, which are essential to provide an education based on the top international standards.



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