











5 OCEANS, 5 COLONIES:

Sculpting Future Living Architecture On and Below Water

NICE, July 21-31 2025 (physical part) July 6th: ¹/₂ day and 13th: ¹/₂ day (online session

Blended Intensive Programme (BIP)





5 OCEANS, 5 COLONIES: Sculpting Future Living Architecture On and Below Water

Beneficiary Module BIP code :(TBD)

Summary of Information:

In which city is the BIP located?	NICE	
Name of the hosting university?	UNICA, IMREDD	
Name of the coordinating university?	UNICA, IMREDD	
Ulysseus BIP topics?	 Multilingual & intercultural competences skills; Equality, Diversity & Inclusion; Citizen Engagement Topics related to the Ulysseus Innovation Hubs, Transversal/Interdisciplinary topics aligned with the Ulysseus Mission: 	
ISCED code, according to the list in annex 1 (for a BIP for students):	0031, 0188, 0288, 0522, 0529, 0783, 0731-9, 0788, 9999	
Amount of ECTS	5	
Expected participants (students, staff or	In total 20.	
the two ones) and the expected study level	Open to transdisciplinary speculative thinkers, professionals, researchers, and	
for students:		





 Maximum number of desired Erasmus BIP participants (granted or zero granted) and precise if non BIP participants, can be added (for example for University of Montenegro participants who can't be counted as BIP participants And if possible, precise, how many slots per university: 	 Open to: 20 ERASMUS BIP participants 5 non BIP participants
Start/End dates of the virtual component:	 Pre summer school: (Online) Two half-day online sessions July 6th: ½ day, Online Session July 13th: ½ day, Online Session
Start/End dates of the physical component:	Summer school: (In-Person July 21–31, 2025)
(Expected) Workload (detail for physical component and the virtual one if possible):	 Pre summer school: (Online) Two half-day online sessions designed to equip participants with essential knowledge about Al Kitchen Tools to support and enhance the design process: July 6th: ½ day, Online Session July 13th: ½ day, Online Session Summer school: (In-Person July 21–31, 2025) Incubation Phase: (July 21 – 24): Focus on understanding future modes of living, survival in extreme environments, and developing initial ocean colony programs. Conceptual & Design Phase (July 25 – 28): Deep dive into systemic biomimicry through observation and exploration of living systems, engaging with researchers and ocean explorers. Participants will apply biomimicry methods using Al Kitchen Tools, 3D printing, and physical rain simulators. Final Development phase (July 29 - 30): Refinement of concepts and preparation of final deliverables. Installation & Public Exhibition (July 31): Presentation of the final outcomes in a





	public exhibition—an opportunity to share the work, engage with the public, and animate public space in Nice.
Language and level required:	ENG (C1, C2)
Available funding:	Seeking to apply to UNICA seed fund
Hosting university's registration deadline	Applications are open from April 1st to June
to receiving <mark>(the participant list)</mark> or <mark>(the</mark>	2nd, 2025! —selections are made on a
signed Erasmus mobilty agreement):	rolling basis, with confirmation sent within
For the organiser: choose the correct	five business days. Spots are limited, and
proposition above and keep in mind the	the call will close once the maximum
partners delays for their BIP dissemination,	number of participants has been reached.
their internal process to open application	
calls and select candidates (around 2-3	
months)	
Application Details:	Please contact your Ulysseus Local Mobility Officers in this table below. Feel free to reach out to them with any questions. They will manage the selection process internally.
Contact details of Ulysseus Local Mobility	
Officers:	
University of Seville:	mobilityulysseus@us.es
Université Côte d'Azur:	mobility-ulysseus@univ-cotedazur.fr
University of Genoa:	giulia.colletti@unige.it
Technical University of Kosice:	natalia.vaskova@tuke.sk
MCI The Entrepreneurial School®:	mobilityofficer.ulysseus@mci.edu
Haaga-Helia University of Applied Sciences:	mobilityulysseus@haaga-helia.fi
University of Münster:	mobilityulysseus@uni-muenster.de





University of Montenegro: ulysseusmobility@ucg.ac.me

Detailed Information:



General Course Information

- **Course Description:** Organized by UNICA, IMREDD, chair UX & informed by "Future of Living Architectural Lab", this 11-day experimental summer school, embarks transdisciplinary professionals, researchers and students into a nomadic hands-on Architectural living laboratory, a place to explore, stimulate, simulate, and test disruptive ideas for the "Brave New World" of future living where humanity thrives in extreme marine environments: 5 colonies in 5 Oceans
- Ulysseus Priority topics:
- 🗖 Multilingual & intercultural competences.
- Equality Diversity & Inclusion;
- Citizen Engagement
- Related to the Ulysseus Innovation Hubs;
- Transversal/Interdisciplinary topics aligned with the Ulysseus Mission





- Target group:
- Students
- Non-academic staff
- Academic staff
- Level (for students):
- 🗌 Bachelor
- 🗌 Master / preferable
- PhD / preferable
- Field of study and ISCED code(s) for a BIP for students using the ISCED code list in annex: 0031, 0188, 0288, 0522, 0529, 0783, 0731-9, 0788, 9999
- Course dates: Physical component: 21/ 07/ 25 to 31/ 07/ 25
 Virtual component: 06/ 07/ 25 & 13/ 07/ 25
- Registration dates are open from 01/04/25 to 02/06/25 (ideally the 26/05/2025 for students)

Please be aware that your home university may set a different application deadline depending on their internal selection process (around 2-3 months)

Course Content

• Course Outline & content:

"Each age demands its own form," the Bauhaus architect Hannes Meyer wrote in his 1926 essay, "The New World". We live in an uncertain world where the urge to explore, design, and inhabit the oceans is rapidly intensifying. As land-based resources dwindle, and environmental crises escalate, a radical rethinking of how we live with, on, above, and below the ocean is imperative to anticipate, adapt and prevent.





In response, UNICA, IMREDD, chair UX & Future of Living Architectural Lab invites transdisciplinary participants from all over the world to embark on a 11-day experimental summer lab: a nomadic hands-on living laboratory, a place to explore, stimulate, simulate, and test disruptive ideas for the "Brave New World" of future living where humanity thrives in extreme marine environments.

The challenge is to sculpt speculative ocean colonies in extreme environments & survival conditions

- Indian Ocean (near Madagascar) A floating observatory & marine conservation habitat.
- Caribbean Sea (Gardi Sugdub Island) A climate refugee colony resisting sealevel rise.
- Barents Sea An extreme-environment mining & military outpost.
- Mediterranean Sea A blue economy hub rethinking the region resource flows.
- Pacific Ocean A speculative, undiscovered frontier TBD by participants.

The summer school is driven by non-formal education, experimental, transdisciplinary process and guided by core thematic concepts. Participants, in group of three/ four, will have to go throughout the below:

- Future living, Extreme Environments & survival conditions understanding Exploring social needs and cutting-edge technologies to design a fully selfsufficient colony
- Systemic Biomimicry Learning from marine organisms to design regenerative architectural ecosystems.
- Al-Kitchen Tools to explore designs
- Testing designs in physical oceanic conditions using 3D printing & rain simulators
- Learning by doing, discovering & exchanging– field visits, encounters, & playful settings

By the end of the summer school, participants are to generate:

A 1mn AI animated video, showcasing the project, its process & concept





An A0 summary Board showcasing the process & the outcome

And to showcase their work in an exhibition that is to animate Nice public space, and engage interaction with the public over the topic

- Learning Outcomes:
 - Hands-on expertise in systemic biomimicry & AI-enhanced Architectural design process
 - Experimental design process in extreme environments & survival conditions
 - System thinking, critical foresight, disruptive & regenerative design strategies for marine futures.
 - o Qualitative learning about marine ecosystems
 - The path of translating an experience into lifelong learning, self-empowerment & impacts

Physical Mobility

• The physical mobility part will be running from July 21 to 31 2025 in Nice

Incubation Phase: (July 21 – 24): Focus on understanding future modes of living, survival

in extreme environments, and developing initial ocean colony concepts.

	Morning	Afternoon
July 21	Welcome, Introductions & discoveries + inspiring intervention	A dive into system thinking & Future Thinking
July 22	5 oceans Extreme environment understanding & exploration	Survival conditions experiment
July 23	Colony program development	Resilience, risk, adaptation & Regenerative ecosystem
JULY 24	Social Needs & Behaviors	Colony program development

Conceptual & Design Phase (July 25 – 28): Deep dive into systemic biomimicry through observation and exploration of living systems, engaging with researchers and ocean explorers. Participants will apply biomimicry methods using AI Kitchen Tools, 3D printing, and physical rain simulators.





	Morning	Afternoon
July 25	A day in the sea: discovering, observing & learning about living beings	A day in the sea: discovering, observing & learning about living beings/ Biomimicry philosophy introduction
July 26	Design process, using AI tools: cycle 01	Design process, using AI tools: cycle 02 + 3D printing
July 27	Design process, using AI tools: cycle 03	Design process, using AI tools: cycle 04 + Physical rain simulator
July 28	Design process, using AI tools: cycle 05	Design process, using AI tools: cycle 06

Final Development phase (July 29 -30): Refinement of concepts and preparation of final deliverables.

	Morning	Afternoon
July 29	Video + A0 summary board development	Video + A0 summary board development
July 30	Video + A0 summary board development	Video + A0 summary board development

Installation & Public Exhibition (July 31): Presentation of the final outcomes in a public exhibition—an opportunity to share the work, engage with the public, and animate public space in Nice.

	Morning	Afternoon
July 31	Work outcome exhibition, presentations & debates	Work outcome exhibition, presentations & debates Final ceremony

Virtual Component/Part

Two half-day online sessions designed to equip participants with essential knowledge

about **AI Kitchen Tools** to support and enhance the design process:

- July 6th: ½ day, Online Session: seminar 01, a, introduction to an AI tools design process
- July 13th: ¹/₂ day, Online Session: seminar 02, AI tools design process + AI video production





Requirements

Open to transdisciplinary speculative thinkers, professionals, researchers, and students from architecture, design, engineering, and related fields—this program is for those eager to break disciplinary boundaries, engage in extreme survival simulations, and push the limits of what's possible.

To maintain the highest quality experience, only 15–20 participants will be selected.

- Application Period: April 1 July 1, 2025.
- Apply now by filling out the <u>application form</u>, and we will respond within five business days.

Application Process

After completing your BIP template, please send it to your Local Mobility Officer to check it.

Please contact your Ulysseus Local Mobility Officers in this table below. Feel free to reach out to them with any questions. They will manage the selection process internally.

Professors

The instructors who are to take part of this summer school are renown individuals from different fields and different moral entitees such as:

- Eliesh Sahyoun, Future & system thinking, experimental design processes, & sustainable transition (UNICA, IMREDD)
- Chantal Matar, Al Tools, ex Zaha Hadid (studi Chantal Matar Ltd.)
- Olibvier Bocquet, expert in biomimicry (Rougerie Tangram)
- Jacques Rougerie, ocean & marin biomimicry architect (Fondation Jacques Rougerie)
- Jenny Grevette, expert in Resilience (EIT culture)
- OTECCA Lab (UNICA)
- N.I.C.E. lab (UNICA)
- ECOSEAS lab (UNICA)
- And Others TBC









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Annex 1: ISCED CODES

Broad field	Narrow field	Detailed field
00	000 Generic programmes and qualifications not further defined	0000 Generic programmes and qualifications not further defined
	001 Basic programmes and qualifications	0011 Basic programmes and qualifications
Generic programmes and	002 Literacy and numeracy	0021 Literacy and numeracy
qualifications	003 Personal skills and development	0031 Personal skills and development
	009 Generic programmes and qualifications not elsewhere classified	0099 Generic programmes and qualifications not elsewhere classified
01 Education	011 Education	0110 Education not further defined 0111 Education science 0112 Training for pre-school teachers 0113 Teacher training without subject specialisation 0114 Teacher training with subject specialisation 0119 Education not elsewhere classified
	018 Inter-disciplinary programmes and qualifications involving education	0188 Inter-disciplinary programmes and qualifications involving education
	020 Arts and humanities not further defined	0200 Arts and humanities not further defined
02 Arts and humanities	021 Arts	0210 Arts not further defined 0211 Audio-visual techniques and media production 0212 Fashion, interior and industrial design 0213 Fine arts 0214 Handicrafts 0215 Music and performing arts 0219 Arts not elsewhere classified
	022 Humanities (except languages)	0220 Humanities (except languages) not further defined 0221 Religion and theology 0222 History and archaeology 0223 Philosophy and ethics 0229 Humanities (except languages) not elsewhere classified
	023 Languages	0230 Languages not further defined 0231 Language acquisition 0232 Literature and linguistics 0239 Languages not elsewhere classified
	028 Inter-disciplinary programmes and qualifications involving arts and humanities	0288 Inter-disciplinaryprogrammes and qualifications involving arts and humanities
	029 Arts and humanities not elsewhere classified	0299 Arts and humanities not elsewhere classified





Broad field	Narrow field	Detailed field
03 Social sciences, iournalism and	030 Social sciences, journalism and information not further defined	0300 Social sciences, journalism and information not further defined
	031 Social and behavioural sciences	0310 Social and behavioural studies not further defined 0311 Economics 0312 Political sciences and civics 0313 Psychology 0314 Sociology and cultural studies 0319 Social and behavioural sciences not elsewhere classified
information		0320 Journalism and reporting not further defined 0321 Journalism and reporting 0322 Library, information and archival studies 0329 Journalism and reporting not elsewhere classified
	038 Inter-disciplinary programmes and qualifications involving social sciences, journalism and information	0388 Inter-disciplinary programmes and qualifications involving social sciences, journalism and information
	039 Social sciences, journalism and information not elsewhere classified	0399 Social sciences, journalism and information not elsewhere classified
	040 Business, administration and law not further defined	0400 Business, administration and law not further defined
04 Business, administration and law	041 Business and administration	0410 Business and administration not further defined 0411 Accounting and taxation 0412 Finance, banking and insurance 0413 Management and administration 0414 Marketing and advertising 0415 Secretarial and office work 0416 Wholesale and retail sales 0417 Work skills 0419 Business and administration not elsewhere classified
	042 Law	0421 Law
	048 Inter-disciplinary programmes and qualifications involving business, administration and law	0488 Inter-disciplinary programmes and qualifications involving business, administration and law
	049 Business, administration and law not elsewhere classified	0499 Business, administration and law not elsewhere classified





Broad field	Narrow field	Detailed field
	050 Natural sciences, mathematics and statistics not further defined	0500 Natural sciences, mathematics and statistics not further defined
	051 Biological and related sciences	0510 Biology and related sciences not further defined 0511 Biology 0512 Biochemistry 0519 Biology and related sciences not elsewhere classified
	052 Environment	0520 Environment not further defined 0521 Environmental sciences 0522 Natural environments and wildlife 0529 Environment not elsewhere classified
05 Natural sciences, mathematics and statistics	053 Physical sciences	0530 Physical sciences not further defined 0531 Chemistry 0532 Earth sciences 0533 Physics 0539 Physical sciences not elsewhere classified
	054 Mathematics and statistics	0540 Mathematics and statistics not further defined 0541 Mathematics 0542 Statistics 0549 Mathematics and statistics not elsewhere classified
	058 Inter-disciplinary programmes and qualifications involving natural sciences, mathematics and statistics	0588 Inter-disciplinary programmes and qualifications involving natural sciences, mathematics and statistics
	059 Natural sciences, mathematics and statistics not elsewhere classified	0599 Natural sciences, mathematics and statistics not elsewhere classified
06 Information and Communication Technologies	061 Information and Communication Technologies (ICTs)	0610 Information and Communication Technologies (ICTs) not further defined 0611 Computer use 0612 Database and network design and administration 0613 Software and applications development and analysis 0619 Information and Communication Technologies (ICTs) not elsewhere classified
	068 Inter-disciplinary programmes and qualifications involving Information and Communication Technologies (ICTs)	0688 Inter-disciplinary programmes and qualifications involving Information and Communication Technologies (ICTs)





Broad field	Narrow field	Detailed field
	070 Engineering, manufacturing and construction not further defined	0700 Engineering, manufacturing and construction not further defined
	071 Engineering and engineering trades	0710 Engineering and engineering trades not further defined 0711 Chemical engineering and processes 0712 Environmental protection technology 0713 Electricity and energy 0714 Electronics and automation 0715 Mechanics and metal trades 0716 Motor vehicles, ships and aircraft 0719 Engineering and engineering trades not elsewhere classified
07 Engineering, manufacturing and construction	072 Manufacturing and processing	0720 Manufacturing and processing not further defined 0721 Food processing 0722 Materials (glass, paper, plastic and wood) 0723 Textiles (clothes, footwear and leather) 0724 Mining and extraction 0729 Manufacturing and processing not elsewhere classified
	073 Architecture and construction	0731 Architecture and construction not further defined 0731 Architecture and town planning 0732 Building and civil engineering 0739 Architecture and construction not elsewhere classified
	078 Inter-disciplinary programmes and qualifications involving engineering, manufacturing and construction	0788 Inter-disciplinary programmes and qualifications involving engineering, manufacturing and construction
	079 Engineering, manufacturing and construction not elsewhere classified	0799 Engineering, manufacturing and construction not elsewhere classified
	080 Agriculture, forestry, fisheries and veterinary not further defined	0800 Agriculture, forestry, fisheries and veterinary not further defined
08 Agriculture, forestry, fisheries and veterinary	081 Agriculture	0810 Agriculture not further defined 0811 Crop and livestock production 0812 Horticulture 0819 Agriculture not elsewhere classified
	082 Forestry	0821 Forestry
	083 Fisheries	0831 Fisheries
	084 Veterinary	0841 Veterinary
	088 Inter-disciplinary programmes and qualifications involving agriculture, forestry, fisheries and veterinary	0888 Inter-disciplinary programmes and qualifications involving agriculture, forestry, fisheries and veterinary
	089 Agriculture, forestry, fisheries and veterinary not elsewhere classified	0899 Agriculture, forestry, fisheries and veterinary not elsewhere classified



UCG



Broad field	Narrow field	Detailed field
09 Health and	090 Health and welfare not further defined	0900 Health and welfare not further defined
	091 Health	0910 Health not further defined 0911 Dental studies 0912 Medicine 0913 Nursing and midwifery 0914 Medical diagnostic and treatment technology 0915 Therapy and rehabilitation 0916 Pharmacy 0917 Traditional and complementary medicine and therapy 0919 Health not elsewhere classified
welfare	092 Welfare	0910 Welfare not further defined 0921 Care of elderly and of disabled adults 0922 Child care and youth services 0923 Social work and counselling 0929 Welfare not elsewhere classified
	098 Inter-disciplinary programmes and qualifications involving health and welfare	0988 Inter-disciplinary programmes and qualifications involving health and welfare
	099 Health and welfare not elsewhere classified	0999 Health and welfare not elsewhere classified
	100 Services not further defined	1000 Services not further defined
10 Services	101 Personal services	1010 Personal services not further defined 1011 Domestic services 1012 Hair and beauty services 1013 Hotel, restaurants and catering 1014 Sports 1015 Travel, tourism and leisure 1019 Personal services not elsewhere classified
	102 Hygiene and occupational health services	1020 Hygiene and occupational health services not further defined 1021 Community sanitation 1022 Occupational health and safety 1029 Hygiene and occupational health services not elsewhere classified
	103 Security services	1030 Security services not further defined 1031 Military and defence 1032 Protection of persons and property 1039 Security services not elsewhere classified
	104 Transport services	1041 Transport services
	108 Inter-disciplinary programmes and qualifications involving services	1088 Inter-disciplinary programmes and qualifications involving services
	109 Services not elsewhere classified	1099 Services not elsewhere classified
99 Field unknown	999 Field unknown	9999 Field unknown





UCG