INHABITAT

INTELLIGENT SUSTAINABLE HABITATS MASTERS COURSE

2-YEAR MSC COURSE RELATED TO IOT AND URBAN SUSTAINABILITY

The project aim is the development of a 2-year MSc course on IoT for “Intelligent Sustainable Habitats,” focusing on key skills and entrepreneurship. It aligns with ECTS for EU-wide recognition and offers micro-credentials for vocational training and lifelong learning.

The 24-month innovative course integrates interactive teaching, expert partnerships, and a 1-month internship. It includes two exchange periods for practical experience and cultural engagement, taught in English with local language support. Open to those with technical backgrounds, it prioritizes academic merit and socio-economic inclusivity.

INTERACTIVE IOT CURRICULUM AND APPLICATIONS

Co-funded by the European Union

MEET THE PROJECT TEAM!

>>> CONSORTIUM

POLITECNICO MILANO 1863 · EFESTO · INTERNATIONAL HELLENIC UNIVERSITY · HOCHSCHULE RHEIN-WAAL Rhine-Waal University of Applied Sciences · ICB SOFTWARE INNOVATION A KONGSBERG company · CERCA TROVA · ktu kaunas university of technology 1922 · VENTSPILS TEHNIKUMS · ECQA · SYSWIN SOLUTIONS · HOLONIX BRING THINGS TO LIFE

BRIDGING ACADEMIA AND INDUSTRY WITH GLOBAL MOBILITY AND INCLUSIVITY

>>> **12 PARTNERS FROM 10 EUROPEAN COUNTRIES – GREECE (LEAD PARTNER), LATVIA, LITHUANIA, BULGARIA, AUSTRIA, GERMANY, ROMANIA, FRANCE, SPAIN AND ITALY.**

Co-funded by the European Union

PROGRESS UPDATE

MAY 2024

KICK-OFF MEETING

Kick-off meeting took place in the Alexander University Campus of the International Hellenic University at Sindos, Thessaloniki, Greece on January, 25th and 26th, 2024. During these two days, the representatives of all partners had the opportunity to discuss and communicate the issues related to the structure and implementation of the study program. Support speeches were given in the opening of the meeting by the vice Rector of IHU, Prof. Panagiotis Tzionas, and the Head of the Department of Industrial Engineering and Management, Prof. Apostolos Tsagaris.

OUR WEBPAGE!

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INTERNATIONAL HELLENIC UNIVERSITY

MEET THE PROJECT PARTNERS

Thessaloniki, Greece

LEADING PARTNER

Students of the Department of Industrial Engineering and Management: design, implement, improve, manage systems consisting of: people, materials, tools, machines, financial resources, information technology and energy, to create products and services.

VISIT OUR WEBPAGE!

LABORATORY OF ENERGY SYSTEMS OF IEM/IHU

The Laboratory of Energy Systems of IEM/IHU specializes in the following technological areas:

- Underwater Vehicles: Leading the way in marine exploration technology;
- Small Scale Road Electric Vehicles: Pioneering sustainable urban mobility and racing solutions;
- DAQ Systems: Utilizing advanced data acquisition systems for modern engineering applications;
- Alternative Fuels: Studying the effect of alternative fuels in conventional vehicles.

VENTSPILS VOCATIONAL TECHNICAL SCHOOL

MEET THE PROJECT PARTNERS

Ventspils, Latvia

>>> LABOR OMNIA VINCIT! / HARD WORK OVERCOMES ALL!

Wide array of possibilities for our students with our diverse study programs, from Mechanical Engineering to Culinary Arts. Experience the future of education with VR classes and digital solutions, and expand your horizons through international training and Erasmus+ exchanges. With scholarships and top-notch accommodations, we're dedicated to nurturing the talents of tomorrow's leaders.

VISIT OUR WEBPAGE!

At Ventspils Vocational Technical School, we're proud to offer a diverse range of study programs tailored to meet the demands of the modern workforce. Our programs include:

- Mechanical Engineer
- Car Mechanic
- Mechatronics System Technician
- Engineering Communications Technician
- Computer Systems Technician
- Programming Technician
- Electrical Technician
- Hospitality and Guest Service Specialist
- Tourism Service Consultant
- Chef with Restaurant Specialization and Bartender

SYSWIN SOLUTIONS

MEET THE PROJECT PARTNERS

Bucharest, Romania

WE DELIVER HIGH-PERFORMANCE IOT & M2M SOLUTIONS

Syswin Solutions is a forward-thinking company dedicated to delivering high-performance IoT and M2M solutions. With a focus on innovation, the company offers a unique platform that integrates advanced technologies to address the specific needs of precision agriculture, environmental monitoring, and smart cities. Their comprehensive approach includes concept and design innovation, pilot projects, prototyping and testing, and full-scale implementation, ensuring each solution is tailored and effective.

VISIT OUR WEBPAGE!

CUTTING-EDGE IOT AND M2M TECHNOLOGIES

With 12 years of industry experience, Syswin Solutions has developed 93 prototypes and installed over 25,000 products, demonstrating their commitment to technological excellence and customer satisfaction. Their expertise in IoT solutions is evident through their ability to create scalable and efficient systems that enhance operational efficiency and drive sustainable growth in various sectors. By leveraging IoT technology, Syswin Solutions is poised to lead the market in smart, interconnected solutions. Some of the successful products of Syswin Solutions are SysAgria, SmartAir City or SysParking.

POLITECNICO DI MILANO

MEET THE PROJECT PARTNERS

Milan, Italy

DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING

Established in 2013 and gathers professors and researchers engaged in different research activities.
The main goal of the Department consists in promoting interdisciplinary collaboration among the core disciplines of Civil and Environmental Engineering, addressing sector issues with an integrated approach.

The Department mission is to engage in research, education, and technology transfer in the areas of surveying, geology, geotechnics, hydraulics, hydrology, water resource management, transportation networks, analysis and design of structures and infrastructure, structural and seismic engineering, securing historical structures, hydraulic and maritime constructions, mechanics of materials and structures.

VISIT OUR WEBPAGE!

ENVIRONMENTAL MANAGEMENT, ENHANCING RESILIENCE AND SUSTAINABILITY IN OUR ECOSYSTEMS AND COMMUNITIES

Main areas of research concern the assessment, analysis, and development of mitigation and remediation measures and strategies, remediation technologies, as well as the reuse, recycling, and recovery of resources involved in the various environmental sectors of air, water, and soil. Primary issues in water and wastewater technology include the development and evaluation of conventional and advanced treatment operations, including control systems and process optimization, with a focus on reducing energy and material requirements and recovery options.