

## Blended Intensive Program - Template

### Important note:

Students interested in this program have to apply to their home university according to the internal procedure.

Student applications made directly to the hosting institution will not be considered.

### General information

Course Title	ERASMUS+ Blended Intensive Programme – BIP 2024: Achieving Sustainable Development Goal(s) through Chemistry, Chemical and Food Technology
Coordinating institution	Faculty of Chemistry and Technology, University of Split
Partner institutions	University of Malta, Faculty of Health Sciences, Department of Food Sciences and Nutrition, Malta  University of Gdańsk, Department of Environmental Technology, Gdańsk, Poland  University of Western Brittany (Université de Bretagne Occidentale-UBO), Brest, France
BIP Code	<b>2023-1-HR01-KA131-HED-000122123-4</b>
Abstract: (a few lines describing the course that SEA-EU partners can use for dissemination)	<p><b>Are you passionate about solving global challenges through sustainable practices in science and education? Do you want to understand how chemistry, chemical and food technology can drive the achievement of Sustainable Development Goals (SDGs)?</b></p> <p>If you're ready to transform innovative ideas into real-world solutions, this course is for you! Learn how to evaluate and propose strategies for a circular economy while addressing critical environmental issues. Be part of a program that celebrates diversity and encourages active participation in STEM fields. Collaborate with peers from diverse backgrounds to design innovative solutions for global challenges. Gain practical skills, work in an international team, and propose creative solutions for a circular economy.</p> <p>Join us at the University of Split for a unique learning experience that combines science, innovation, and sustainability!</p>
Calendar	Physical components: 30 h (during 5 days) 07/04/2025 - 11/04/2025

Total number of hours:	30 hours of contact hours and 30 hours of independent activities
Teacher(s) in charge	PhD Nediljka Vukojević Medvidović, full prof. PhD Ante Prkić, assoc. prof.
Number of participants	Each SEA-EU university can propose 3-8 students.
Mobility costs	This mobility is eligible for Erasmus+. Please contact your university for more information.
Contact	Organisational aspects: Antonija Čelan <a href="mailto:antonija.celan@ktf-split.hr">antonija.celan@ktf-split.hr</a> , Nediljka Vukojević Medvidović <a href="mailto:nvukojev@ktf-split.hr">nvukojev@ktf-split.hr</a> Pedagogical aspects: <a href="mailto:antonija.celan@ktf-split.hr">antonija.celan@ktf-split.hr</a> , <a href="mailto:nvukojev@ktf-split.hr">nvukojev@ktf-split.hr</a>

## Pedagogical content

Target group / Expected student profile	Students of undergraduate, graduate and doctoral studies (technical sciences, natural sciences, social sciences, humanities).
Requirements Academic background	Knowledge of the English language and ability to work in MS Office programs
Selection of participants	Participants will be selected from students enrolled in undergraduate, graduate, and doctoral programs across a variety of fields, including technical sciences, natural sciences, social sciences, and humanities. The selection will be based on their academic background, motivation, and relevance of the course content to their studies and research interests.
Selection criteria	<p><b>Academic Background:</b> Students from undergraduate, graduate, and doctoral programs in technical sciences, natural sciences, social sciences, and humanities are eligible to apply.</p> <p><b>Language Proficiency:</b> A basic understanding of the English language is required, as the course will be taught in English.</p> <p><b>Technical Skills:</b> Proficiency in MS Office programs is necessary to effectively engage with course materials and complete assignments.</p> <p><b>Motivation:</b> A demonstrated interest in sustainable development, green chemistry, and interdisciplinary approaches to solving global challenges.</p>

<p>Description of the physical component (please include any relevant information for the applicants)</p>	<p>The physical component of the course includes a series of engaging lectures, workshops, and expert visits aimed at providing practical insights into sustainable development through the lens of chemistry, chemical, and food technology. Key activities include:</p> <ul style="list-style-type: none"> <li>• Lectures on green chemistry, circular economy, and sustainable practices in chemistry, chemical and food technology.</li> <li>• Professional visits to production facilities showcasing sustainable practices, including food production and metal recycling.</li> <li>• Workshops on Life Cycle Assessment (LCA), ecological footprint calculations, and food quality assessment.</li> <li>• Discussions on the role of higher education in promoting sustainable development and empowering women in science.</li> </ul> <p>This hands-on experience will equip participants with practical skills to contribute to achieving the Sustainable Development Goals (SDGs).</p>
<p>Description of the virtual component (please include any relevant information for the applicants)</p>	<p>The virtual component consists of a 2-hour session that serves as an introduction to the course. It includes:</p> <ul style="list-style-type: none"> <li>• Guidelines for implementing the physical component of the course.</li> <li>• An overview of the course content and objectives.</li> <li>• A discussion on the roles and contributions of both instructors and participants during the course activities (lectures, workshops, and expert visits).</li> <li>• An exploration of participant expectations and agreement on the assessment process for the final presentation.</li> </ul> <p>This virtual session sets the foundation for the hands-on, in-person activities and ensures alignment between participants and instructors, preparing students for the physical component.</p>
<p>Learning objectives/outcomes:</p>	<p>Upon completion of the course/educational activity, the participant will be able to:</p> <ul style="list-style-type: none"> <li>- understand and discuss the importance of creativity and innovation in chemistry, chemical and food technologies, society and education in order to achieve the Sustainable Development Goals (SDGs)</li> <li>- understand and apply the concepts of green chemistry and research methodology that contributes to achieving the goals of sustainable development</li> <li>- understand and apply different engineering solutions in the service of the circular economy and sustainable development goals</li> <li>- understand the importance and significance of alternative learning methods that contribute to achieving the goals of sustainable development through education and apply the method of service-learning in the STEM field</li> <li>- critically assess the importance of encouraging and participating</li> </ul>



	<p>women and girls in science</p> <ul style="list-style-type: none"> <li>- perform a Life Cycle Assessment (LCA) on the example of a solid municipal waste management system and understand the meaning of LCA for climate policy</li> <li>- understand the meaning of the ecological footprint, apply available tools for its calculation, critically analyse the obtained results and propose solutions for a more effective relationship between man and the environment and sustainable management of natural resources</li> <li>- understand the importance and meaning of food industry product quality assessment in accordance with the goals of sustainable development</li> <li>- be able to independently propose an innovative solution in accordance with the SDGs goals</li> <li>- partnership to achieve goals - apply teamwork skills in an international environment</li> </ul>
Any required material/software to take part to the course:	none
ECTS:	3 ECTS
Evaluation:	Regular and active participation in classes and a positive evaluation of the final presentation
Transcript of records will be issued ...	A Transcript of Records will be issued upon successful completion of the course.
Language of the course	English language

## Structure of the course

	Timing	Learning Objectives, Contents, Modalities of work, evaluation... any relevant information for the applicants.
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<p>Virtual part:</p>	<p>2 hours online</p> <p>10 days before physical components</p>	<p>The virtual component of the program consists of a 2-hour session designed to provide guidelines for the implementation of the physical component, introduce the program content, and establish expectations for both teachers and participants.</p>
<p>Physical part (On-site in Split):</p>		<p>The physical component of the program consists of a series of carefully selected lectures, workshops, and expert visits, all designed to deepen participants' understanding of sustainable development through the lens of chemistry, chemical, and food technology. These activities will provide practical insights and real-world applications of sustainability principles in various industries, empowering students to contribute to achieving the Sustainable Development Goals (SDGs).</p> <p>The physical component includes:</p> <ul style="list-style-type: none"> <li>• Integration of Green Chemistry into Classical Chemistry (3 h): This lecture focuses on the principles of green chemistry and their application to traditional chemistry practices, with the aim of supporting the achievement of SDGs.</li> <li>• Professional Visit - Production of Delicacies (6 h): Participants will visit a facility that produces delicacies based on centuries-old recipes, which are adapted to modern technological processes while aligning with sustainable development principles.</li> <li>• The Role of Higher Education in Sustainable Development (3 h): This session discusses how higher education can contribute to sustainable societal development, with a focus on combining STEM disciplines, environmental protection, and an interdisciplinary approach in service-learning.</li> <li>• Encouraging Gender Equality in Science (3 h): A session dedicated to empowering women and girls in STEM fields, highlighting the importance of promoting gender equality and career development opportunities in science in line with SDGs.</li> <li>• Engineering Solutions for Circular Economy and SDGs (6 h): This workshop will cover engineering solutions aimed at advancing the</li> </ul>

		<p>circular economy, with topics including metal recycling, optimization of hydrodynamic conditions, and wastewater treatment, all crucial to achieving SDGs.</p> <ul style="list-style-type: none"> <li>• Life Cycle Analysis (LCA) and Ecological Footprint (3 h): Participants will perform a Life Cycle Analysis (LCA) of a solid municipal waste management system and calculate personal environmental impact using the Ecological Footprint (EF) methodology.</li> <li>• Food Systems and Sustainability (3 h): This session will explore food systems, focusing on sustainable practices and the assessment of food industry products in alignment with SDGs.</li> <li>• Review of Sustainable Development Goals in Chemistry, Chemical and Food Technology (1 h): A final session summarizing the key concepts and the practical implementation of SDGs in the fields of chemistry, chemical and food technology, education, and society.</li> <li>• Final Presentations (2 h): Participants will present their proposals for the realization of one of the SDGs in the fields of chemistry, chemical, or food technology, showcasing their understanding and innovative solutions.</li> </ul> <p>Through these interactive sessions, participants will gain valuable knowledge and hands-on experience, equipping them to contribute effectively to sustainable practices in their academic and professional careers.</p>
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## Practical information

<p>Accommodation recommendations</p>	<p><b>Student Dormitory at the Split Campus</b></p> <p>A cost-effective option for participants who are looking for a more affordable stay. Located within the Split University Campus, the student dormitories offer basic but comfortable accommodation with easy access to the course venue. This is a great choice for those wishing to experience student life in Split.</p> <p>Contact information for booking and availability can be obtained from the Split University Student Center (SC Split): <a href="mailto:rezervacija.smjestaja@scst.hr">rezervacija.smjestaja@scst.hr</a> or <a href="mailto:booking@scst.hr">booking@scst.hr</a>          Website: Student Center Split (<a href="https://www.scst.unist.hr">https://www.scst.unist.hr</a>)</p>
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	<p><b>Other accommodation recommendations for participants in Split:</b></p> <p><b>1. Hotel Luxe</b> A modern, comfortable hotel located near the city center, offering easy access to the course location. Features include free Wi-Fi, a fitness center, and excellent customer service. Website: Hotel Luxe Split (<a href="https://hotelluxesplit.com/">https://hotelluxesplit.com/</a>)</p> <p><b>2. Hostel Split</b> A budget-friendly option located in the heart of the city, ideal for students and young professionals. The hostel offers both private rooms and dormitories with shared facilities. Website: Hostel in Split (<a href="https://www.booking.com/hostels/city/hr/split.hr.html">https://www.booking.com/hostels/city/hr/split.hr.html</a>)</p> <p><b>3. Airbnb</b> For more flexibility, participants can find various apartments and private rooms available for rent through Airbnb, with options ranging from basic to more upscale accommodations. Many properties are located near the city center and popular tourist areas. Website: Airbnb Split (<a href="https://www.airbnb.com/a/stays/Split">https://www.airbnb.com/a/stays/Split</a>)</p> <p><b>4. Dioklecijan Hotel &amp; Residence</b> A mid-range hotel offering spacious rooms and modern amenities, situated near the old town of Split. It's a good option for those looking for comfort and convenience. Website: Dioklecijan Hotel &amp; Residence (<a href="https://dlhv.hr/hotels/dioklecijan-hotel-residence">https://dlhv.hr/hotels/dioklecijan-hotel-residence</a>)</p> <p><b>5. Hotel Park Split</b> A luxurious option located by the sea, offering premium services, a spa, and a beautiful view of the Adriatic coast. It's perfect for those seeking a more relaxing stay while attending the course. Website: Hotel Park Split (<a href="https://www.hotelpark-split.hr/en">https://www.hotelpark-split.hr/en</a>)</p>
<p>The physical mobility will take place at... (address of the course)</p>	<p><b>Faculty of Chemistry and Technology, University of Split</b> Ruđer Bošković 35, 21000 Split, Croatia</p>
<p>Any tips?</p>	<p><b>Tips for Participants Attending the Course in Split:</b></p> <p><b>Plan Your Travel</b></p> <p><b>Accommodation:</b> Book early to secure affordable student dorms or hotels, especially during tourist season.</p> <p><b>Transport:</b> Check bus, train, and ferry schedules in advance. The airport is 30 minutes from the city center by bus or taxi.</p> <p><b>Weather &amp; Packing</b></p> <p><b>Weather:</b> Expect warm Mediterranean weather; pack light clothes, sunscreen, and sunglasses.</p> <p><b>Swimwear:</b> Don't forget swimwear to enjoy Split's beautiful beaches,</p>

	<p>like Bačvice.</p> <p><b>Make the Most of the Course</b></p> <p><b>Networking:</b> Connect with participants and instructors for future opportunities.</p> <p><b>Engage Actively:</b> Participate fully in workshops and discussions.</p> <p><b>Ask Questions:</b> Don't hesitate to seek help or local recommendations.</p> <p><b>Explore Split</b></p> <p><b>Must-See:</b> Visit Diocletian's Palace, Riva promenade, and Marjan Hill.</p> <p><b>Cuisine:</b> Try local dishes like pašticada and fresh produce at Pazar Market.</p> <p><b>Day Trips:</b> Explore nearby islands or Krka National Park for waterfalls.</p> <p><b>Stay Connected</b></p> <p><b>Wi-Fi:</b> Free Wi-Fi is widely available.</p> <p><b>SIM Card:</b> Consider a local SIM for affordable mobile data.</p>
<p>Contact of the person in charge of signing the OLA</p>	<p>Ante Prkić (ECTS coordinator), E-mail: <a href="mailto:prkic@ktf-split.hr">prkic@ktf-split.hr</a></p> <p>Sanja Perinović Jozić (Erasmus coordinator), E-mail: <a href="mailto:sanja@ktf-split.hr">sanja@ktf-split.hr</a></p>