



Dear lecturers,

As part of the **SEA-EU University Alliance** your University takes part in task 2.3 on flexibilization of curricula and the development of **micro-credential offers** and study programmes in the learning field of **Future Skills** and **Sustainability Studies**. It is the idea of the Alliance to foster exchange, cross-border teaching and the offer of small learning units for students from all subjects in the two aforementioned topics in an **Alliance-wide exchange of virtual teaching**.

As lead of task 2.3 Kiel University organizes the provision of micro-credentials in the fields of "Future Skills" and "Sustainability Studies" for all Alliance students. With this Guidebook we aim to give you an idea of how you can open up your teaching for students from all other SEA-EU-Alliance universities. This is in many ways an ambitious endeavor. As we are on the way to establish the whole process, we chose to find pragmatic solutions while working on more sustainable and automated procedures in the long term. In a first phase we agreed on establishing the micro-credential Programme for Future Skills. In the next phase this will be done for the Sustainability Studies Programme in the same way.

We define micro-credentials as a small learning unit of 1-5 ECTS.

Micro-credentials provide learners with specific knowledge, skills and attitudes that meet the cultural, societal or market demands of our changing world. Micro-credential courses are open to students within the SEA-EU Alliance and the ECTS gained can be used within study programmes. In this way, students can supplement their studies with important future skills according to their own ideas and interests.

We don't expect students to travel to another country for a micro-credential course and therefore advise you to think of suitable courses preferably in English, which are offered online or in a hybrid format.

Do you have a course that covers the topic of "Future Skills"? Would you like to enrich your course with participants from up to nine SEA-EU universities?

This Guidebook guides you through the process of a course offer, which can be summarized in three steps:

- Fill in the SEA-EU micro-credential course sheet and we add your offer to our course pool and make it visible to students at the Alliance
- The registration to the course for the SEA-EU students has to be done on the basis of the appropriate procedures of your university.
- At the end of the course, you or your University hand out the SEA-EU certificate to the successful SEA-EU-students. We will provide you with the pre-filled template for the certificate.

Perhaps we have piqued your interest and you would like to design a new course that addresses SEA-EU Alliance students? We have gained initial experience in designing such courses and would be happy to help you.

Yours sincerely
Wibke Matthes & Katrin Schmidtke

Key Skills Centre, Kiel University, SEA-EU task 2.3 micro-credentials























Guidebook

for teachers

Micro-credential course offers for the SEA-EU micro-credential programme on "Future Skills"























Content of this Guidebook

- 1. Introduction4
- 2. The SEA-EU micro-credential programme on "Future Skills"5
- 3. The micro-credential course sheet6
- 3.1. Course sheet General Information6
- 3.2. Course sheet Organisational Information7
- 3.3. Course sheet Learning Conditions7
- 3.4. Course sheet Linkage to SEA-EU micro-credential Programmes8
- 4. Organising the course application and registration at the home University9
- 5. The SEA-EU course certificate 10
- Annex 1: SEA-EU task 2.3 micro-credentials "Future Skills" Framework11
- Annex 2: SEA-EU task 2.3 micro-credentials course sheet23
- Annex 3: SEA-EU task 2.3 micro-credentials Teaching and Learning Methods26
- Annex 4: SEA-EU task 2.3 micro-credentials Methods of Assessment27
- Annex 5: SEA-EU task 2.3 micro-credential course certificate 29
- Annex 6: Definition SEA-EU task 2.3 micro-credentials30
- Annex 7: SEA-EU task 2.3 micro-credentials glossary33























1. Introduction

The content of this Guidebook is the result of the work of the SEA-EU task 2.3 micro-credential Expert group.

The task 2.3 micro-credentials within the SEA-EU Alliance is organising a micro-credential course offer for all students of the SEA-EU Alliance in the fields of Future Skills and Sustainability Studies.

Our aim is to create a course pool in the field of Future Skills that contains course offers from all 9 Universities of the Alliance for all students of the Alliance.

We define micro-credentials as small learning units of 1-5 ECTS. You can find our full definition in the Annex 6: Definition SEA-EU task 2.3 micro-credentials

Students can pic only one course with for example 1 ECTS from the course pool or they can complete the whole micro-credential Programme on Future Skills by covering at least three categories and by collecting at least 15 ECTS from the Programme.

In a first step, we worked out the micro-credential Programme on Future Skills, this will be subject of this Guidebook. In the next step we will define the Programme on Sustainability Studies and complete this Guidebook.

In order to have a clearer definition of what we mean by Future Skills, we have created a Future Skills framework which you will find in <u>chapter 2</u>.

To open up some places in your existing course to the students from the Alliance or to offer a new course for the course pool, please take the following steps:

- Check whether your course fits into one of the categories of our Future Skills framework (see <u>chapter 2</u>:). To do this, look at the competences listed in the respective category and decide whether the learning objectives of your course develop one or more of these competences.
- Fill in the online course sheet, for more information see chapter 3
- Please organise for now the application and registration of the students at your University (in future there might be a common solution for this process for SEA-EU courses). For more information see chapter 4
- Please hand out a course certificate to the SEA-EU students after their successful completion of the course, or use your university processes to confirm student achievement, if possible. For more information see chapter 5























2. The SEA-EU micro-credential programme on "Future Skills"

For the Future Skills programme, we have created five meta categories that represent our definition of Future Skills. The courses offered as micro-credential course on "Future Skills" should fit in one of these categories.

Meta category	Competences
Higher order thinking competences	Adaptability competences, Problem solving competences, Critical and Systems thinking competences
Self competences	Active Learning competences, Self-awareness competences, Complexity and ambiguity competences
Social and communication competences	Collaboration and networking competences, Communication competences, Leadership competences
Transformative competences	Entrepreneurship competences, Citizenship competences, Global awareness competences
Digital and media competences	Data Literacy competences, Media literacy competences, Digital collaboration competences

For each Meta category you can offer a course/micro-credential module with 1 to 5 ECTS (2,5 ECTS are also possible)

Please find the detailed "Future Skills Framework" with definitions of all competences and with learning outcomes for each category in Annex 1.























3. The micro-credential course sheet

If you want to offer a course for the SEA-EU micro-credential programme on Future Skills, please fill in the online course sheet: https://studfeedback.uni-kiel.de/evasys/online.php?p=EAHJM

The information in the course sheet will be used for

- Course dissemination to all students of the Alliance
- Creation of the course certificate template, which we will make available for you
- Checking the fit of the course to the SEA-EU micro-credential Future Skills programme

The whole course sheet can be found in Annex 2

3.1. Course sheet - General Information

This section of the course sheet contains the main course information.

Course Title		Code		
Course teacher				
Name, Institution, University: main teacher				
Name, Institution, University: a	ssociated teach	her		
Organiser/Contact person				
Name, Institution, University				
Credits (ECTS)	Workload			
	1 ECTS = 25 to	o 30 h Workload,		
Possible range 1 to 5	including	_ contact hours a	nd self instructed	
	learning			
Language of instruction				
English (preferred) or local lange	uage			
Mode of provision				
☐ Physical attendance of stude	nts: 100%	□ romoto att	condance nossible	
☐ Physical attendance of students: partly			endance possible	
required	, ,		□ online 100%	
Percentage of e-learning (0-100)%)			
Short course description (for di	ssemination to	students)		
Please enter a short course desc	cription for the	course dissemina	tion to students	
Link to the university's website	for the course	/ time and place	for the course	
Please enter the link to the cour	se information	at your University	y's website or, if not possible,	
the specific dates or time period				



















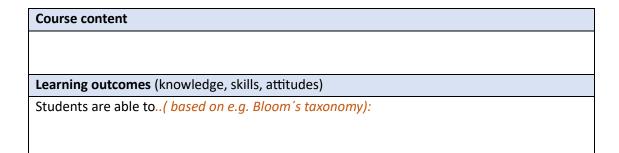




3.2. Course sheet - Organisational Information

This section contains all organizational information for the students. For the course format/teaching and learning methods please refer to the SEA-EU agreed list of teaching and learning methods in Annex 3

Course format/tea	ching and learning	method (see SEA-EU list	t of teaching and learning
methods)			
Max. number of p	articipants		
Course enrolment			
Please fill in a Link	to a local course eni	rolment platform, that is	usable for all students of the
Alliance or the info	ormation, how stude	nts from all Universities	of the Alliance can enroll.
Course fees			
Enrolment require	ments		
Study level □	Bachelor (level 6)	☐ Master (level 7)	☐ Doctorate (level 8)
Entry level of lang	uage proficiency:		
Other requiremen	ts:		
Link to the univers	sity's website for the	e course	
Other remarks			
3.3. Co	ourse sheet - I	earning Conditio	ons



In this section the course content is specified: the learning outcomes, the student activities within the course and the attendance policy. For the Assessment Methods

please refer to the SEA-EU agreed list of assignments in Annex 4























Student activities			
Attendance policy			
Assessment Methods (see S	SEA-EU list of assignments)		
Method	Duration in hours or length in words	Percentage Weighting	
Grading			
☐ graded ☐ non-{	graded (pass/fail)		
Study materials/Course lite	rature		

3.4. Course sheet - Linkage to SEA-EU micro-credential Programmes

In this section you specify which category/module of the SEA-EU Future Skills framework your offer belongs to and which competence(s) of the category/module are trained by your course offer.

Please refer to chapter 2.

Linked to micro-credential programme
☐ Future Skills ☐ Sustainability studies (not yet applicable)
Linked to micro-credential category/module (see Future Skills Framework)
☐ Higher order thinking competences
☐ Self competences
☐ Social and communication competences
☐ Transformative competences
☐ Digital and media competences
Linked Competence
Name the competence(s) from list of the related category/module in the SEA-EU Future
Skills Framework or the SEA-EU Sustainability Studies Framework you will provide with your
teaching:























4. Organising the course application and registration at the home University

In the next step you/your University organise the application and registration of the students at your University (in future there might be a common solution for this process for SEA-EU courses).

We are aiming to find a cross-university solution for the authentication of students within the SEA-EU Alliance. However, this will take some time. Until then, we ask you to find pragmatic solutions for the application and registration of students. Please bear in mind that external students may not be able to use your internal university systems as they may not have access to them.

If you need help or support with the application and registration process for Alliance students, please contact us by e-mail. Our contact: rohlf@zfs.uni-kiel.de

As this is an exchange of students within the Alliance, we would like to suggest that the course offer is free of charge for students. Students from your university will take part in courses at other universities in the Alliance, and in return you will host students from the Alliance. In our view, this should balance out any additional costs incurred. However, if it is not possible for you to offer your course for free, please give information on the fees and the payment process.

Please enter the information concerning the application and registration process for the students from the SEA-EU Alliance in the course sheet.























5. The SEA-EU course certificate

To confirm the successful course participation of the students, please hand over the course certificate to the SEA-EU students or use your University processes for credit achievement if possible. Please use the standardized form that we will provide you with pre-filled, after you have filled in the course sheet. Students will submit this course certificate, after having received it from you, to their home university for ECTS credit transfer.

There will probably also be a SEA-EU-wide solution for issuing course certificates and awarding ECTS, but this is currently still in preparation.

You can see what the course certificate will look like in Annex 5























Annex 1: SEA-EU task 2.3 micro-credentials "Future Skills" Framework

The SEA-EU micro-credential Framework on "Future Skills"

	Skills/Competenc	Learning outcomes	
Meta-categories	es		
	Adaptability	Students	
	competences	- define techniques and methods for	
	Adaptability	proactive behavior in unknown situations	
	competence	- identify challenges in learning and	
	encompasses the	working environments	
	knowledge, skills	- describe improvisation techniques for	
	and responsible	dealing with change	
	attitude to	- implement adaptation strategies for	
	approach	dealing with unknown challenges	
	unknown	- evaluate individual learning and working	
	situations	steps for dealing with unknown situations	
	positively, to work	or challenges	
	on several tasks	- integrate improvisation techniques into	
	simultaneously	the adaptation process	
	and to deal	- evaluate their intrinsic motivation in	
	constructively	adaptation situations	
	with change.	- assess their own role in working with	
Higher order		others in unfamiliar situations	
Higher order		- develop priorities for adaptation in	
thinking		challenging or unfamiliar situations, taking	
competences		into account their own needs and the	
competences		needs of others	
	Problem solving	Students	
	competences	- recognize complex problems from	
	Problem-solving	diverse domains, identifying key	
	competence	components and interrelationships.	
	comprises the	- synthesize information from various	
	knowledge, skills,	disciplines, fostering a holistic	
	and responsible	understanding of problems and solutions.	
	attitude required	- name problem-solving theories and	
	to effectively	models	
	identify, analyze,	- evaluate information objectively, identify	
	and resolve	assumptions, and form well-reasoned	
	complex issues	conclusions.	
	and challenges	- generate innovative solutions to complex	
	within a given	issues.	
	context. It	- cultivate a resilient attitude towards	
	involves the	problem-solving, demonstrating	
	application of	perseverance in the face of setbacks.	























critical thinking,
creativity, and
ethical
considerations to
navigate and
overcome
obstacles in a
systematic and
effective manner.

 appreciate diverse perspectives, fostering collaboration and enhancing their ability to tackle multifaceted problems.

develop a heightened awareness of ethical considerations in problem-solving, ensuring that their solutions contribute positively to society.

Critical and Systems thinking competences

The competence of critical thinking encompasses the knowledge, skills and responsible attitude for process-based thinking behavior that serves to systematically analyze and evaluate information, ideas and arguments and to reach factually sound conclusions.

Students

- identify different arguments and claims for their critical analysis
- recognize facts, concepts, theories and principles of the respective field of knowledge that are relevant to carry out an informed, critical analysis
- name basic steps and techniques of critical thinking
- combine different techniques of critical thinking to analyze experiences, complex information and theories critically and objectively
- formulate questions to critically analyze arguments and conclusions
- develop and evaluate rational arguments from existing perspectives
- use facts, concepts, theories and principles of the respective field of knowledge to develop alternative solutions in the critical thinking process
- find assessment standards for comparing different theses and arguments
- recognize their own subjectivity
- develop a value system that appreciates existing arguments, theses or decisions in the process of critical thinking
- critically weigh different perspectives against each other
- take a responsible stance on their own and other arguments

Self competences

Active Learning competences Active Learning competence encompasses the knowledge, skills and responsible

Students

- identify personal needs and areas of learning
- describe different learning methods
- recognise techniques and methods for planning, reviewing and adapting their own learning























attitude required
to develop
actively individua
learning
strategies and to
shape self-
organised one's
own learning
process in a
solution-oriented
manner.

- assess their own level of development - create individual learning and

al development goals

- organise and evaluate their own learning process

- identify their own preferred learning methods
- develop a personalised learning strategy
- consider solution-orientated changes and opportunities for learning
- are convinced of their own ability to achieve goals
- internalise the positive appreciation of learning as a life-enriching activity
- take the initiative to extend and deepen their own learning

Self-awareness competences

Self-awareness competence comprises the knowledge, skills and responsible attitude to recognize and classify one's own patterns and strategies in behavior and to align behavior with these insights and

values.

Students

- identify techniques and methods of selfreflection
- identify personality and basic
 psychological models for self-reflection
 review techniques, methods and models
 of self-reflection by applying them in
 relation to their own personality
- develop the ability to self-observe
- analyse their own motives in self-reflection
- develop skills for self-regulation
- become aware of their own emotional state in the process of self-reflection
- find assessment standards for their own values and behaviour through selfreflection
- weigh different perspectives against each other and relate them to their own perception in self-reflection
 reflect on personal stereotypes,
- behavioural patterns and prejudices
- develop an awareness of and selfconfidence in their own abilities in the process of self-reflection

Complexity and ambiguity competences

Complexity and ambiguity competence

Students

- identify concepts of complexity and ambiguity
- identify techniques and strategies for coping with complexity and ambiguity
 identify complex challenges and























comprises the knowledge, skills and responsible attitude to recognize, classify and accept ambiguity and heterogeneity in situations and roles

conflicting goals

- analyse contradictory information and role expectations
- analyse contradictions
- examine the handling of complex systems consisting of many interconnected parts that often interact in a non-linear way
- evaluate unconventional and innovative solutions
- manage systems that are difficult to predict due to their diversity, dynamics and emergence
- allow for uncertainties in complex systems
- honour different perspectives in ambiguity
- accept ambiguity in their world view
- tolerate emergent phenomena and chaos

Social and communication competences

Collaboration and | Students networking competences

Collaboration and networking competences comprises the knowledge, skills and responsible attitude to face challenges in a group in a collaborative and participative way in order to solve a problem or achieve a goal and to establish, maintain and use effective connections and

- name tools for collaboration
- name collaboration theories and cocreation methods
- define common working methods and forms of collaboration
- describe effective communication and dialogue strategies that facilitate the development and maintenance of relationships in a network
- name strategies and techniques for finding, analysing and sharing relevant information in order to identify resources and expertise within the network
- characterise strategies and techniques to successfully build relationships in networks
- create a positive working atmosphere in collaboration
- plan a common setting for cooperative work
- organise the roles and tasks of the cooperation partners
- jointly combine goals and solutions for successful collaboration
- use tools, techniques and strategies to build and maintain relationships in a









networks.















network

- develop procedures to bring people and ideas together in an interdisciplinary way

- connect people and in this way contribute to the success of the network

honour the individuality of the cooperation partners

- develop shared values for their collaboration

- categorise the goals and values of the cooperation partners

- align their behaviour with the goals of the collaboration

- participate in networks

 practise respect and appreciation when dealing with other people in the network
 establish relationships between people

Communication competences

Communication competence encompasses the knowledge, skills and responsible attitude to communicate clearly, comprehensibly and congruently and thus to contribute to building interpersonal relationships, avoiding misunderstanding s and improving the quality of communication.

Students

- recognise the structure of conversations,presentations and written messagesname methods and models of
- name methods and models of comprehensible communication

to build and maintain the network

- recognise paralinguistic features of communication
- recognise the significance of gestures, facial expressions, posture and tone of voice
- compare how non-verbal signals are interpreted in different cultures
- use the appropriate words to convey information, thoughts and ideas clearly and precisely
- select language and body language appropriate to the target group and situation
- develop self-control to consciously manage their own non-verbal communication
- examine the possible effects of their own non-verbal communication on others
- base their communication behaviour on the principles of honesty and authenticity
- practise clarity in verbal and non-verbal communication, share information openly and thus avoid misunderstandings























EUROPEAN UNIVERSITY OF THE SEAS	l	l
	Leadership	Students
	competences	- present the principles of good leadership
	Leadership	- recognise classic and modern leadership
	competence	styles
	encompasses the	- define feedback rules
	knowledge, skills	- explain socio-psychological experiments
	and responsible	and phenomena from the context of
	attitude to	leadership
	successfully lead,	- name definitions of leadership from
	motivate and	various disciplines
	influence a group	- develop a confident appearance in
	of people or an	leadership situations
	organization to	- apply communication tools for
	achieve common	leadership situations
	goals.	- design smart goals for themselves and as
		a leader for others
		- assess tools for self-leadership and for
		leading others
		- organise leadership situations with
		people and goals in mind
		- develop clarity and a self-reflective
		attitude with regard to their own
		leadership role
		- develop a value-oriented attitude in
		leadership situations that is characterised
		by empathy and appreciation
		- align their leadership behaviour with
		principles of integrity and ethics in dealing
		with power
	Entrepreneurship	Students
	competences	- identify techniques for developing their
	Entrepreneurship	own ideas for successful entrepreneurial
	-	activity or business start-ups
	competences	
	encompasses the knowledge, skills	- recognise methods for carrying out market analyses
	and responsible	•
	attitude to	- explain the legal requirements and
Transformative		conditions for setting up and running a
	establish and	business
competences	successfully	- describe methods for estimating and
	manage a	evaluating risks
	company by	- describe methods of business model
	developing	development
	innovative	- develop their own ideas for new
	solutions,	business models and entrepreneurial
	recognizing	decisions
	opportunities and	- evaluate innovation potentials for start-
	taking risks. This	up projects and entrepreneurial decisions























includes market and customer understanding, financial management, marketing, personnel management and adaptability.

- use methods, tools and techniques for successful business start-ups and management
- convince others of their ideas or proposed solutions for entrepreneurial challenges, cooperation or investment
- flexibly assess changing challenges and requirements for their entrepreneurial activities
- orientate their behaviour towards independence, initiative, openness to innovation and constructive cooperation in entrepreneurial processes
- find benchmarks for assessing the sustainability of start-up projects and entrepreneurial decisions
- evaluate risks and affirm change in the entrepreneurial decision-making process
- practise a culture of networking and communication to promote start-up projects and entrepreneurial success
- develop an attitude of responsibility towards social, operational and human challenges in start-up projects and entrepreneurial decisions

Citizenship competences

Citizenship competence comprises the knowledge, skills, and responsible attitude required to navigate, engage, and contribute effectively in diverse societal contexts. It involves a deep understanding of global issues, legal and political systems, and cultural perspectives, fostering the

Students

- name the major components of global issues, including legal and political systems
- explain cultural perspectives and their impact on social interactions
- Students explain relationships between different cultural values and behaviors within different communities
- create well-founded solutions for complex social challenges in different contexts
- analyze and evaluate the interplay of legal frameworks, cultural dynamics and global issues
- develop proposals to advocate for positive social change in a way that respects diverse perspectives and promotes inclusive dialog
- articulate personal values associated with citizenship, expressing an understanding of the significance of responsible engagement in diverse























ability to critically analyze information and communicate effectively. societal contexts and attaching subjective worth to participation

- actively participate in discussions on citizenship competences, expressing their reactions, opinions, and questions related to societal issues
- integrate ethical values into their decision-making processes, illustrating how these values contribute to responsible citizenship in diverse societal contexts
- demonstrate a commitment to upholding ethical standards and values associated with citizenship competences, both in academic and real-world scenarios.
 critically examine their own values in the
- critically examine their own values in the context of global issues, legal systems, and cultural perspectives

Global awareness competences

Global awareness competences comprise the knowledge, skills, and responsible attitude required to comprehend and engage with the complex interconnections of our interconnected world. This includes a comprehensive understanding of global issues spanning social, economic, and environmental realms, as well as the ability to analyze and interpret diverse cultural perspectives.

Students

- analyze global issues by critically examining the interconnected relationships between social, economic, and environmental factors, demonstrating the ability to discern patterns and evaluate the implications of these interconnections on a global scale assess the economic dimensions of global challenges, utilizing economic theories and models to analyze the distribution of resources, trade patterns, and the socio-economic disparities that influence global development.
- apply cross-cultural communication skills to engage with diverse stakeholders, fostering effective collaboration and negotiation in the pursuit of global solutions to social, economic, and environmental challenges.
- create innovative strategies for addressing global challenges, integrating insights from social, economic, and environmental perspectives to propose comprehensive and adaptable solutions.
- design and implement projects that contribute positively to global well-being, applying their knowledge and skills to address real-world challenges and





















Co-funded by the European Union

EUROPEAN UNIVERSITY OF THE SEAS

promoting responsible and sustainable practices on a global scale.

- participate in activities that require them to analyze and interpret information from diverse cultural perspectives.
- articulate personal values related to global citizenship, expressing empathy and concern for the well-being of people worldwide.
- actively contribute to the development of global ethical frameworks, integrating values and principles into their decisionmaking processes.

Data Literacy competences

Data literacy encompasses the knowledge, skills and responsible attitude to effectively collect, understand, analyze and use data, big data and AI.

Students

- identify basic principles of mathematics and statistics when dealing with data list databases, query languages, programming languages and data visualisation tools for analysing data explain ethical and legal aspects of data processing and describe the effects in terms of data security, data protection regulations, access rights, etc. (including the use of Artificial Intelligence (AI) identify various procedures for handling data from creation to deletion (data life cycle)
- collect, classify and evaluate data
- create data products including products based on large language models (LLM)
- explain AI
- use and reflect on the use of Al-products
- analyse and check data to uncover hidden biases and errors
- implement appropriate guidelines for secure and ethical data processing, including the processing of big data for Al-Models
- follow a responsible approach to data, big data and AI
- practise openness, curiosity and a willingness to learn when dealing with data and digital innovations (e.g. Artificial Intelligence, machine learning, etc.)
- organise their work and interaction with data according to ethical principles: Avoidance of discrimination and prejudice,

Digital and media competences























as well as compliance with legal rules and regulations; "data fairness" as a basic attitude

Media literacy competences

Media literacy competences encompasses the knowledge, skills and responsible attitude to understand, compare and critically evaluate, select and create media in a responsible way so that they are used effectively and in different contexts.

Students

- name different types, formats and channels of media for different target groups
- characterise the criteria for high-quality, trustworthy media content
- describe the effects of different media
- describe methodological approaches to media analysis
- compare media and data according to specific criteria, e.g. seriousness, credibility/trustworthiness, risk of manipulation
- name criteria for a technically proficient use of different media
- explain the advantages and disadvantages, opportunities and risks of different types of media
- describe methods for recognising manipulated content, advertising and disinformation
- apply various media analysis methods
- assess media systematically by collecting and analysing evidence that leads to wellfounded conclusions
- assess interests and conditions of media production and distribution
- examine various media critically and competently in order to use them to form opinions and make decisions
- use media interactively, purposefully and in a target group-orientated way to communicate their own thoughts and knowledge
- critically assess their own media usage behaviour and adapt it if necessary
- configure the media used on the basis of security and privacy settings
- are committed to an analytical-critical, evidence-based attitude towards media
- weigh up the importance of media in shaping perceptions of reality, (political) opinion-forming and social behaviour
- recognise the importance of flexibility,























JROPEAN UNIVERSITY OF THE SEAS		
	-	adaptability, willingness to learn and problem-solving skills when dealing with rapidly changing media
		- follow rules of behaviour and
		appropriate communication when using media
		- develop a critical, self-reflective and
		responsible attitude with regard to their
		own media usage behaviour
		- feel committed to a data protection-
		compliant and rights-preserving approach
		to media
		- have the principle of taking a stand
		against disinformation, propaganda and
		hate speech
	Digital	Students
	collaboration	- name tools for digital interaction and
	competences	virtual collaboration
	Digital	- characterise the potentials and
	collaboration	challenges of human-machine interaction
	encompasses the	- identify the opportunities and limitations
	knowledge, skills	of digital communication and interaction
	and responsible	- identify the opportunities and challenges
	attitude to	of digital interaction
	exchange	- apply different tools for effective and
	information in the	appropriate digital interaction
	digital space, to	- configure connections to other
	communicate	interaction partners in the digital space
	effectively and to	with the help of digital tools
	collaborate with	- create a constructive working
	the help of digital	atmosphere for virtual collaboration
	tools, platforms,	- design solutions for conflicts in the
	and	digital space
	communication	- use indicators to analyse human-human and human-machine interaction in the
	technologies, along with the	digital space
	ability to leverage	- evaluate the special features of digital
	them for	communication
	seamless	- develop a change-conscious and
	collaboration.	responsible attitude towards (new) tools
		for digital interaction
		- accept ambiguity in digital
		communication and practise patience in
		contradictory situations
		- practise the principle of transparency in
		virtual collaboration























Based on:

European Commission, Directorate-General for Employment, Social Affairs and Inclusion, ESCO handbook – European skills, competences, qualifications and occupations, Publications Office (2017), https://data.europa.eu/doi/10.2767/934956

Athanasia Kotsiou, Dina Daniela Fajardo-Tovar, Tom Cowhitt, Louis Major & Rupert Wegerif (2022). A scoping review of Future Skills frameworks, Irish Educational Studies, 41:1, 171-186, DOI: 10.1080/03323315.2021.2022522

Key Skills Center, Kiel University (2023), Our definition of key competences, https://www.zfs.uni-kiel.de/en/key-competences/our-definition-of-key-competences























Annex 2: SEA-EU task 2.3 micro-credentials course sheet

SEA-EU micro credential course sheet

Course offers for the SEA-EU micro-credential Programmes on Future Skills or Sustainability Studies

General Information

Course Title		Code
Course teacher		
Name, Institution, University: m	nain teacher	
Name, Institution, University: a	ssociated teacher	
Organiser/Contact person		
Name, Institution, University		
Credits (ECTS)	Workload	
	1 ECTS = 25 to 30 h Workload,	
Possible range 1 to 5	including contact hours a	nd self instructed
	learning	
Language of instruction		
English (preferred) or local langu	ıage	
Mode of provision		
☐ Physical attendance of students: 100% ☐ remote attendance possible		
☐ Physical attendance of students: partly		•
required \square online 10		170
Percentage of e-learning (0-100	%)	
Short course description (for dissemination to students)		
Please enter a short course description for the course dissemination to students		
Link to the University's website	/Time and place for lessons	
Please enter a link to the information on time and place on your website. If you can't provide		
a link, please enter the specific dates or time period		

Organisational Information

Course format/teaching and learning method (see SEA-EU list of teaching and learning		
methods)		
Max. number of participants		























Course enrolment		
Please fill in a Link to a local course	e enrolment platform, that i	s usable for all students of the
Alliance		
Course fees		
Enrolment requirements	. <u> </u>	
Study level Bachelor (level 6		☐ Doctorate (level 8)
Entry level of language proficiency	:	
Other requirements:		
	u the course	
Link to the university's website for	r the course	
Other remarks		
Other remarks		
Learning Conditions		
Course content		
Learning outcomes (knowledge, sk	ills, attitudes)	
Students are able to (based on e.g	g. Bloom's taxonomy):	
Student activities		
Attendance policy		
Assessment Methods (see SEA-EU	list of assignments)	
Method	Duration in hours or	Percentage Weighting
	length in words	
Grading		
☐ graded ☐ non-graded	(pass/fail)	
Study materials/Course literature		























Linkage to SEA-EU micro-credential Programmes



















^{*}This course sheet is derived from the SEA-EU Joint Programme course sheet.





Annex 3: SEA-EU task 2.3 micro-credentials Teaching and Learning Methods

Teaching and Learning Methods Definitions for SEA-EU micro-credentials

These teaching methods offer a variety of approaches to cater to different learning styles and objectives within the university education context.

Teaching method	Definition
Fieldwork	Educational activities conducted outside the classroom, typically in real-world settings. It involves hands-on experience, data collection, or research in a specific field related to the course.
Lecture	A method of teaching where an instructor presents information to a large group of students. It is a one-way communication where the lecturer imparts knowledge and concepts.
Performance	A teaching method that involves students showcasing their skills or understanding through practical demonstrations, presentations, or performances, often related to the subject matter.
Practical Study-Unit	A study unit focused on hands-on application of theoretical knowledge, often involving practical exercises, experiments, or projects related to the course.
Practicum	Similar to an internship, a practicum is a hands-on learning experience in a professional setting, typically associated with teacher training or counselling programs.
Project	A collaborative or individual task requiring students to plan, execute, and present the results of an in-depth investigation or creative work related to the course.
Seminar	A small-group discussion or workshop led by a facilitator, where students actively engage with the material, discuss concepts, and share ideas. It encourages participation and critical thinking.
Tutorials	Small-group or one-on-one sessions where students receive personalised instruction, clarification of concepts, and guidance from a tutor or instructor. Tutorials supplement larger lectures and allow for individualised learning.

^{*}Source: Adapted from the SEA-EU "Teaching Methods. Definition for SEA-EU Joint Programmes" from the document SEA-

EU_JP_definitions_Teaching_Assessment_Methods-.pdf























Annex 4: SEA-EU task 2.3 micro-credentials Methods of Assessment

Methods of Assessment for SEA-EU micro-credentials

The method of assessment should inform students exactly how they will be assessed*.

Teaching method	Definition
Analysis Task	A task which requires students to identify the primary elements of a
/ triary 515 Tubk	problem or task at hand, and then outline the steps and skills required
	to ensure that the task is performed optimally.
	to ensure that the task is performed optimally.
Assignment	Normally an essay (or a set of written exercises) to be done away from
	the classroom and submitted by a set date.
Case Study (Exam	A research approach that is used to generate in-depth, multi-faceted
conditions)	understanding of a complex issue within a real-life context, which
	includes the application of discipline specific models, constructs and
	research literature
Case Study (take home)	Students are required to work through a case study to identify the
	problem(s) and to offer potential solutions; useful for assessing
	students' understanding and for encouraging students to see links
	between theory and practice. Case studies could be provided in
	advance of a time-constrained assessment.
Classwork	Written or oral exercises carried out by students whilst in the
	classroom. Examples include: discussions, debates, translation
	exercises, etc.
Competencies	Refers to a continuous process which aims at building the student's
	capabilities (knowledge, skills and abilities), and assessing them
	against stated (professional) standards.
Essay	An analytical, interpretative, or critical piece of writing that expresses
	the writer's opinion in response to a set question, problem or issue.
Examination	A written assessment (using traditional pen and paper or a digital
	platform for the administration of the examination) which is carried
	out in a predetermined, restricted time span under invigilated
	conditions. This type of assessment is normally summative in nature.
Fieldwork	Work which is done on site to enable students to gain practical
	experience and knowledge through first hand observation.
Internship	An internship can be defined as any arrangement in which students
	are given opportunities to apply their learning and demonstrate their
	professional capabilities in the workplace, community context or
	other relevant settings. Assessment will be conducted by academic
	supervisors, industry supervisors or workplace mentors, or a
	combination of both.
Logbook	A systematic record of every phase of a project or placement activity.
Long Essay	An analytical, interpretative, or critical piece of writing that enables
,	students to explore a specific subject area in some depth, explain
	theories and concepts; evaluate arguments, and express and support
L	, J.























N UNIVERSITY OF THE SEAS	their own views and opinions.
Oral Examination	An examination during which students are required to verbally reply
Oral Examination	to questions posed to them in the spoken form.
	Students are asked to give an oral presentation on a particular topic
	for a specified length of time and could also be asked to prepare
	associated handout(s). Can usefully be combined with self- and peer-
	assessment.
Portfolio	A systematic and organised collection of a student's work that exhibits
Tortiono	to others the direct evidence of a student's efforts, achievements, and
	progress over a period of time. It should include representative work,
	providing a documentation of the learner's performance and a basis
	for evaluation of the student's progress. Portfolios may include a
	variety of demonstrations of learning that have been gathered in the
	form of a physical collection of materials, videos, CD-ROMs, reflective
	journals, etc.
Poster	The production of a large print that can be displayed in a public space.
Toster	It can include graphical images, text or a mixture of both and is usually
	designed with the intention of promoting an idea, event, product etc.
Report	A written document in which information is presented in an organised
. Toport	format. A report would normally include a descriptive statement, an
	account of the conditions that are observed, findings resulting from
	investigation and inquiry, and a conclusive summary in which the
	student puts forward any recommendations.
Research Paper	A research paper is an extended essay which is intended to assess the
	students' written, analytical, interpretative and argumentative skills,
	based on independent research.
Research Projects	Potential for sampling a wide range of practical, analytical and
	interpretative skills. Can assess wide application of knowledge,
	understanding and skills.
Research/Review Paper	A thorough and systematic analysis of published research findings,
	from which students are expected to provide new insights or
	interpretations about a topic or field of interest.
Role Play	Students write or give a presentation taking on a particular role, e.g. a
	journal reviewer/ editor, consultant, art critic etc. This type of
	assignment could be paired up with a grant application
	exercise.
Seminar Paper	A seminar paper is an advanced piece of writing which is intended to
	present an original
	piece of research to a group of peers.

*Source: Adapted from the SEA-EU "Methods of Assessment for SEA-EU Joint Programmes" from the document SEA-

 ${\tt EU_JP_definitions_Teaching_Assessment_Methods-.pdf}$























Annex 5: SEA-EU task 2.3 micro-credential course certificate

SEA-EU micro-credential Course Certificate

CERTIFICATE OF PARTICIPATION

The European University of the SEAS (SEA-EU) certifies that:

Participant's name

of the [University] has successfully completed the SEA-EU microcredential course:

Name of course : xxx Duration (hours) : x

ECTS : x [remove line if no ECTS is awarded]

Date : xx/xx/xx - xx/xx/xx

Delivered by : course instructor's name

Learning outcomes : *short summary*

Reference to Framework : SEA-EU Future Skills Framework (*link*)
Reference to Module : *chosen module from the Framework*

xx.xx.20xx

Date, name & signature























Annex 6: Definition SEA-EU task 2.3 micro-credentials

SEA-EU Alliance

SEA-EU micro-credentials in the context of Task 2.3

General Understanding	A SEA-EU micro-credential programme is a collection of specific micro-credential modules ¹ . This set of modules on the total of 15 ECTS ² focus on specific learning outcomes ³ verifying what a learner knows understands or can do. The learners collect the credit points over the duration of their entire degree programme. Completed modules that sum up a minimum of 15 ECTS of the micro-credential programme provide the basis for a SEA-EU certificate ⁴ . The modules in the micro-credential programmes are small volumes of learning (1 to 5 ECTS).
Purpose	Learning experiences leading to micro-credential programmes are designed to provide the learner with specific knowledge, skills ethics, values and attitudes that respond to societal, personal, cultural or labour market needs in the field of future skills and sustainability studies. Therefore a SEA-EU micro-credential programme is a personalised record of achievement ⁵ , that is additional and complementary to the learners formal learning path of their degree.
Providers	Providers of SEA-EU micro-credential courses, modules and programmes are all partner universities of the SEA-EU Alliance, or associated partner universities of the SEA-EU Alliance working in collaboration with a SEA-EU partner university.

⁵ Mark Brown, et al., The Global Micro-credential Landscape: Charting a New Credential Ecology for Lifelong Learning, in: JL4D, 2021, Vol. 8, No. 2, pp. 228-254



















¹ See '4. Module', in: Glossary for the definition of "micro-credentials" in SEA-EU 2.0 task 2.3 micro-credentials

² See '1. Credit (ECTS)', in: Glossary for the definition of "micro-credentials" in SEA-EU 2.0 task 2.3 micro-credentials

³ See '5. Learning outcomes', in: Glossary for the definition of "micro-credentials" in SEA-EU 2.0 task 2.3 micro-credentials

⁴ See '7. Certificate', in: Glossary for the definition of "micro-credentials" in SEA-EU 2.0 task 2.3 micro-credentials





Mode of delivery	A micro-credential programme is composed of modules from all study levels (Bachelor, Master, Doctoral Programmes). Modules consist of one or more courses ⁶ . Prerequisites should always be clearly communicated for learners. Learning settings are distributed in diverse, physical, online, blended, virtual and digital locations. The languages of instruction can be either English (priority) or the national language. The language level should always be clearly communicated for learners. Records of informal or non-formal learning are not applicable.
Ownership, portability	The SEA-EU micro-credential certificates are portable. That means that the learner is able to store their micro-credential certificates in a system of their choice, to share the certificate with a party of their choice and for all parties in the exchange to be able to understand the content and verify the authenticity of the credential.
Duration	The participants select courses from the total offer according to their individual interests. They can take one or more courses each semester. The certificate for the SEA-EU micro-credential programme is only provided to learners that collect modules that add up to a minimum of 15 ECTS in total. Participants have to complete the micro-credential programme before graduating from their degree programme.
Outcomes and assessment	Within SEA-EU 2.0 two micro-credential programmes each of 15 ECTS will be developed: one in the field of 'Future Skills' ⁷⁸ and one in the field of 'Sustainability Studies' ⁹ . Learning within a micro-credential programme takes place in the organised and structured environment of the Alliance-institutions, and leads to the award of a qualification, in the form of a certificate ¹⁰ . A micro-credential programme consists of modules which have been developed in connection with the existing study programmes at the Alliance-universities.

https://education.ec.europa.eu/sites/default/files/document-library-docs/european-approach-micro-credentials-higher-education-consultation-group-output-final-report.pdf



















⁶ See '6. Course', in: Glossary for the definition of "micro-credentials" in SEA-EU 2.0 task 2.3 micro-credentials

⁷ See '8. Future Skills', in: Glossary for the definition of "micro-credentials" in SEA-EU 2.0 task 2.3 micro-credentials

⁸ A. Kotsiou et al., A scoping review of Future Skills frameworks, Irish Educational Studies, 41:1, 171-186, 2022, DOI: 10.1080/03323315.2021.2022522 and UNESCO, Futures Literacy: An Essential Competency for the 21st Century, UNESCO, https://en.unesco.org/futuresliteracy/about

⁹ See '9. Sustainability Studies', in: Glossary for the definition of "micro-credentials" in SEA-EU 2.0 task 2.3 micro-credentials

¹⁰ European Commission (December 2020), Final Report, A European Approach to Micro-Credentials. Output of the Micro-Credentials Higher Education Consultation Group,





EAN UNIVERSITY OF THE SEAS	, , , , , , , , , , , , , , , , , , , ,
Standards and quality assurance	The learning outcomes have been assessed within the acknowledged systems of quality assurance at each Alliance-university ¹¹ . A microcredential programme is based on study regulations / examination regulations according to each university's specifications.
Certification	The CAU will provide a template to be used for the certificate. The template will be in accordance with the European standard elements to describe a micro-credential ¹² .
Relation to other credentials	These learning outcomes complement existing qualifications, providing added value while not undermining the core principle of full degree programmes.
Stackability	The SEA-EU micro-credential programmes are stackable, where relevant, to combine different micro-credential programmes and build logically upon each other. Decisions to 'stack' or combine credential programmes lie with the receiving organisation (e.g. education and training institutions, employers, etc.) in line with their practices and should support the goals and needs of the learner. Stacking does not create an automatic entitlement to a qualification or a degree. Such decisions are made by regional and national authorities or institutions in line with their awarding processes.
Target Group	Enroled persons within SEA-EU Alliance Universities

https://unesdoc.unesco.org/ark:/48223/pf0000381668, p. 6

12 EU Interinstitutional File: 2021/0402(NLE), EU-Proposal on Micro-credentials_en_2022.pdf, p. 16



















 $^{^{\}rm 11}$ UNESCO "Towards a common definition of micro-credentials", 2022,





Annex 7: SEA-EU task 2.3 micro-credentials glossary

Glossary for the definition of "micro-credentials" in SEA-EU 2.0 task 2.3 micro-credentials

1. Credit (ECTS)

ECTS credits express the volume of learning based on the defined learning outcomes and their associated workload. 60 ECTS credits are allocated to the learning outcomes and associated workload of a full-time academic year or its equivalent, which normally comprises a number of educational components to which credits (on the basis of the learning outcomes and workload) are allocated. ECTS credits are generally expressed in whole numbers.¹³

2. Workload

Workload is an estimation of the time the individual typically needs to complete all learning activities such as lectures, seminars, projects, practical work, work placements1 and individual study required to achieve the defined learning outcomes in formal learning environments. The correspondence of the full-time workload of an academic year to 60 credits is often formalised by national legal provisions. In most cases, workload ranges from 1,500 to 1,800 hours for an academic year, which means that one credit corresponds to 25 to 30 hours of work. It should be recognised that this represents the typical workload and that for individual students the actual time to achieve the learning outcomes will vary. ¹⁴

3. Course unit

A self-contained, formally structured learning experience. It should have a coherent and explicit set of learning outcomes, defined learning activities consistent with the time allocated within the curriculum, and appropriate assessment criteria. ¹⁵

4. Module

A course unit in a system in which each course unit carries the same number of credits or a multiple of it. ¹⁶

¹⁶ European Commission, Directorate-General for Education, Youth, Sport and Culture, ECTS users' guide 2015, Publications Office of the European Union,





















¹³ European Commission, Directorate-General for Education, Youth, Sport and Culture, ECTS users' guide 2015, Publications Office of the European Union, 2015, https://data.europa.eu/doi/10.2766/87192, P.68

¹⁴ European Commission, Directorate-General for Education, Youth, Sport and Culture, *ECTS users' guide 2015*, Publications Office of the European Union, 2015, https://data.europa.eu/doi/10.2766/87192, P.77

¹⁵ European Commission, Directorate-General for Education, Youth, Sport and Culture, ECTS users' guide 2015, Publications Office of the European Union, 2015, https://data.europa.eu/doi/10.2766/87192, P.68





5. Learning outcomes

Learning outcomes are statements of what the individual knows, understands and is able to do on completion of a learning process. The achievement of learning outcomes has to be assessed through procedures based on clear and transparent criteria. Learning outcomes are attributed to individual educational components and to programmes at a whole. They are also used in European and national qualifications frameworks to describe the level of the individual qualification. ¹⁷

6. Course (unit)

A self-contained, formally structured learning experience. It should have a coherent and explicit set of learning outcomes, defined learning activities consistent with the time allocated within the curriculum, and appropriate assessment criteria. ¹⁸

7. Certificate

A certificate certifies that the learner has successfully passed all modules of a SEA-EU micro-credential-programme. The certificate attests that the learner has achieved the learning objectives of the programme.

The proof is contained in a certified document that lists the name of the holder, the achieved learning outcomes, the assessment method, the awarding body and, where applicable, the qualifications framework level and the credits gained. Microcredentials are owned by the learner, can be shared, are portable and may be combined into larger credentials or qualifications. They are underpinned by quality assurance following agreed standards.¹⁹

8. Future Skills

Refers generally to the competencies that are intended to prepare learners to thrive in the face of a rapidly changing and strongly digitally shaped future with the aim to prepare, recover, and reinvent as changes occur and thus be able to work within complex, ambiguous, volatile and uncertain environments. (UNESCO, 2019) Learning opportunities include higher order thinking skills, dialogue skills, digital and STEM literacy, self-management, enterprise skills, leadership, lifelong learning and flexibility. (A. Kotsiou et. al., 2022)

Sustainability Studies Definition tba

¹⁹ https://education.ec.europa.eu/sites/default/files/document-library-docs/european-approach-micro-credentials-higher-education-consultation-group-output-final-report.pdf



















¹⁷ European Commission, Directorate-General for Education, Youth, Sport and Culture, *ECTS users' guide 2015*, Publications Office of the European Union, 2015, https://data.europa.eu/doi/10.2766/87192, P.72

¹⁸ European Commission, Directorate-General for Education, Youth, Sport and Culture, *ECTS users' guide 2015*, Publications Office of the European Union, 2015, https://data.europa.eu/doi/10.2766/87192, P.68