



# **The ENHANCE Guided Education Paths**

ONBOARDING TOOLKIT FOR ACADEMICS



## Welcome to your ENHANCE teaching journey!

At ENHANCE, we stand at the forefront of creating the “New Normal” in European education and research. Our mission is not just to connect **ten leading universities of technology** but to inspire a movement — a collective drive towards a vision of a resilient, inclusive, and innovative Europe. To our academic and teaching staff: you are the architects of this vision. **By opening your learning opportunities** to our learners across Europe and co-developing new educational paths, you embody the spirit of ENHANCE. Together, we break down barriers, setting a new standard for European education — dynamic, future-ready, and truly without borders. Welcome to the movement!



**NAVEED SYED**  
Secretary General  
**ENHANCE Alliance**



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## WHAT'S IN IT FOR YOU?

# UNDERSTANDING THE GUIDED EDUCATION PATHS AND OPPORTUNITIES FOR ACADEMICS

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## What are the Guided Education Paths?

The **ENHANCE Guided Education Paths** are international curated study pathways co-designed by universities within the ENHANCE Alliance. These paths can integrate both curricular courses and extra-curricular learning opportunities (e.g., Summer/Winter Schools) from multiple ENHANCE institutions to create a comprehensive and enriched educational experience. They aim to go beyond traditional mobility programs by offering structured, yet customizable, paths embedded into local curricula. This means that the path must be officially acknowledged as part of the curriculum and offered to students as a pre-established option.

## Key Elements of the Guided Education Paths



**Inter-Institutional Collaboration:** Developed through the cooperation of professors and study program coordinators across ENHANCE partner universities, promoting complementary expertise and resources.



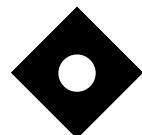
**Flexible Formats:** Courses within these paths may include onsite, virtual, or blended learning, providing students with diverse options tailored to their interests and needs.



**Seamless Recognition:** Courses are assessed and pre-approved by study program coordinators, ensuring that students can focus on learning rather than administrative hurdles.



**Certification:** Completion of a path may lead to recognition such as an ENHANCE Certification that highlights the unique features of the path.



# Benefits for Study Programme Coordinators and Academics

Co-designing and offering Guided Education Paths allows study programme coordinators and faculty involved to take advantage of different opportunities:

## International Collaboration & Networking

- Engage with high-quality international partners to exchange resources, research, and best practices in teaching and learning.
- Network and collaborate with peers, both virtually and in-person, to foster a global educational community.

## Programme Internationalisation & Innovation

- Contribute to developing an integrated education area aligned with the ENHANCE vision, creating internationalized programs.
- Pilot innovative teaching methods, formats, and international study paths that cater to specific areas of interest.

## Flexibility & Customisation in Education

- Foster flexibility and innovation within local study programs, offering customized options to meet diverse student needs.
- Enhance the quality assurance of international components, ensuring high standards across programmes.

## Student Support & Diversity

- Provide guidance and support to students in navigating their academic paths.
- Attract and engage diverse student cohorts through internationalized and specialized offerings that reflect global trends.



# THIS IS ENHANCE

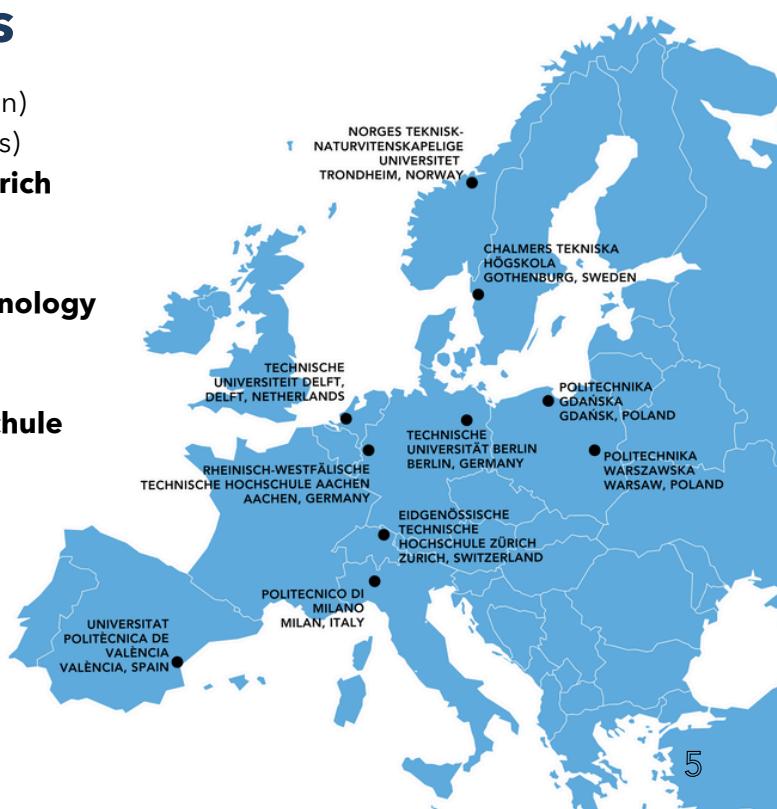


## Shaping the 'New Normal' of Higher Education

The ENHANCE Alliance is a network of **ten leading European Universities of Science & Technology**, co-funded by the [European Universities Initiative](#) and by national funding agencies, such as DAAD, NAWA and Movetia. Its long-term vision is to establish a European academic space that fosters interaction between technological progress, society, and the environment. The Alliance's activities prioritise **socially inclusive and sustainable research and education**, emphasising interdisciplinary and transdisciplinary approaches alongside innovative systems of knowledge co-creation. ENHANCE is committed to building a **European Education Without Barriers** by aligning educational offerings and administrative procedures across partner institutions, paving the way for a unified One Campus vision.

## Our ENHANCE members

- **Chalmers University of Technology** (Sweden)
- **Delft University of Technology** (Netherlands)
- **Eidgenössische Technische Hochschule Zürich** (Switzerland)
- **Gdańsk University of Technology** (Poland)
- **Norwegian University of Science and Technology** (Norway)
- **Politecnico di Milano** (Italy)
- **Rheinisch-Westfälische Technische Hochschule Aachen** (Germany)
- **Technische Universität Berlin** (Germany)
- **Universitat Politècnica de València** (Spain)
- **Warsaw University of Technology** (Poland)





# CONNECTING EUROPE. ONE LEARNER AT A TIME.

## The ENHANCE Education Ecosystem

The Alliance is working towards a European education without barriers which implies an alignment of the partners' education offers and administrative procedures that will contribute to the realisation of the vision of a shared **One Campus**.



To achieve this goal, the Alliance has established the **European Education Pathways Ecosystem (EEP Ecosystem)**, which focuses on three core areas of collaboration:



### Innovative Learning Campus (ILC)

Advancing and sharing opportunities for physical and virtual short-term mobility.



### ENHANCED Erasmus

Enhancing physical mobility opportunities for students and staff.



### Guided Education Paths

Designing thematic learning pathways in targeted disciplines.



This toolkit offers comprehensive support for co-designing the **ENHANCE Guided Education Paths**, by facilitating the exchange and meetings of coordinators/teachers in related disciplines and offering resources and tools for implementation.



# IMPLEMENTATION OPTIONS

ENHANCE Guided Education Paths are very flexible and offer different implementation options depending on the main objective underlying participation and the desired level of integration with other study programs. Find here below the options that best responds to your needs.

## **Would you like to internationalise your study programme?**

Internationalising your study path can be achieved by aligning your course content with offerings from other ENHANCE partner universities. Incorporating pre-recognised courses or modules from other institutions enables seamless student mobility and ensures students can easily transfer credits. By collaborating across borders, you can create integrated degree programmes that leverage the strengths of multiple alliance partners, offering students a truly European educational experience. A planned possibility of double mobility can further enrich the student experience.

## **Are you interested in specialising your study programme?**

Specialising your programme involves designing thematic paths that focus on specific subject areas such as high-demand fields or niche disciplines. By contributing courses to a curated package recognised across the Alliance, you can add significant value to both your local study programmes and the ENHANCE ecosystem. Embedding these specialisations into existing curricula can also increase their appeal to both domestic and international students. Local study programmes can have access to specialised educational offers of the member universities without investing in the creation of new study programmes.

## **Would you like to offer transdisciplinary learning opportunities?**

Transdisciplinary paths allow you to combine your expertise with that of colleagues from other disciplines or institutions to address complex global challenges. Your courses can form part of integrated tracks that include engineering, humanities, and entrepreneurship, fostering innovative solutions and comprehensive learning experiences.



## **Do you want to incorporate innovative teaching formats and/or foster transferable skills?**

Incorporating hybrid or blended learning formats enables you to reach a wider audience, including students who may not be able to participate in long-term physical mobility. ENHANCE offers tools and platforms to support innovative approaches such as Collaborative Online International Learning (COILs) and Blended Intensive Programs (BIPs). These formats enrich the learning experience by making education more interactive, flexible, and accessible. International group projects and interdisciplinary collaborations are excellent ways to help students develop these critical competencies.



## **Would you like to offer or host students wishing to carry out a research/thesis/projects?**

Integrating research/thesis projects abroad within ENHANCE Guided Education Paths enhances academic collaboration and provides students with valuable international research experience. These initiatives include dual supervision models, pre-approved research topics, and seamless credit recognition to ensure projects align with institutional and curricular goals. Students gain access to advanced facilities, international networks, and critical cross-cultural skills, boosting their employability and academic growth. For faculty and institutions, hosting or co-supervising projects fosters deeper collaboration, strengthens global research ties, and raises institutional profiles.

Examples of the different options of active Guided Paths can be found in the ANNEX.



# PRACTICAL INSTRUCTION AND SUPPORTING TOOLS AND SERVICES



## Onboarding and matchmaking

Participating in the ENHANCE Guided Education Paths involves the creation of curated educational pathways with a thematic focus designed to integrate curricular courses and, if available, supplementary learning opportunities into the local study programmes of participating universities.

**1** As a first step and before initiating the process, it is worth to have clear the general rules to follow:

- The path involves a minimum of two member universities. Additional participating member universities are strongly encouraged;
- The involved study programmes make available a package of courses related to the given thematic focus for ENHANCE students;
- The involved study programmes pre-emptively recognize a package of courses from the ones offered by at least one other member university;
- Annual updating of the set of both offered and pre-recognized courses is required;
- Students participating in the path are guaranteed recognition of the related package of courses;
- The package of courses students can choose from corresponds to at least a full term of mobility (totally physical or blended) or of virtual exchange with at least another member university;
- Multiple mobility experiences are encouraged, when feasible (especially aiming at complementing the full-term mobility with short-term or virtual offers).

**2** Contact the local ENHANCE Education Officer at your institution<sup>1</sup> and have a first discussion about your idea for the Guided Path. The ENHANCE Education Officer facilitates the search of interested partners within the Alliance (if needed).

**3** Once interested partners have been identified, the ENHANCE Education Officer of your university facilitates an initial working group meeting to align on goals, timelines, and main learning opportunities to be offered.

After these first steps, the implementation phase can start. It could be conducted in two ways depending on the desired level of co-design and integration among study programmes.

<sup>1</sup> You can find an up to date list of contacts of the ENHANCE Education Officers on the last page of this document.

# Implementation

The procedure for the implementation of Guided Education Paths and Guided Thematic Education Paths is similar, but in the latter case greater interaction between academics is required.

In the case of Guided Education Paths, the procedure entails:

1. **MAPPING:** The study programme coordinators of selected disciplines provide a list of courses taught in English that are open to exchange students;
2. **SELECTING:** Study programme coordinators from each partner university (or designated academic staff with a similar role) select from these lists courses that will be granted automatic recognition and transfer of ECTS upon the student's return to their home university after the exchange period. These courses are therefore considered "pre-approved."
3. **PUBLISHING:** The lists of pre-approved courses are published in the [ENHANCE Courses Catalogue](#).

In the case of Guided Thematic Education Paths a good coordination with partners to co-design the thematic path is fundamental:

During MAPPING and SELECTING steps (1 and 2), suitable packages of courses are selected with a strong emphasis on complementarity as a guiding principle. This approach ensures that the education pathways leverage the diverse strengths of each partner institution, creating an enriched learning experience that exceeds the sum of their individual contributions.

For instance, a professor from University A may identify complementary courses at University B that are not available at University A but would be valuable for students seeking specialization in a particular topic. Alternatively, a professor from University A could curate a selection of their university's courses in a specific field, highlighting them as a strong offering to students from partner universities.

Students participating in Guided Thematic Education Paths benefit from a robust, interconnected educational framework that fosters academic diversity and specialisation.

## Student journey

Students can consult the [Courses Catalogue](#) to review the list of courses or package of courses pre-approved by their coordinators, using the integrated filters, to easily compose a study plan of high-quality courses that will be automatically recognized upon their return.

View the  
**ENHANCE Guided Paths Catalogue**  
here:



## Delivery phase

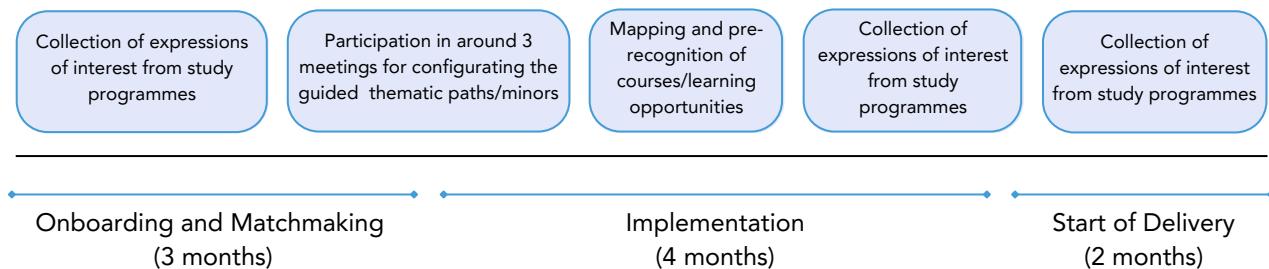
During the delivery phase, integrated curricular courses and supplementary learning opportunities are offered within the local study programmes of the participating universities. During the delivery phase, integrated curricular courses and supplementary learning opportunities are offered within the local study programmes of the participating universities.

Students from participating member universities can take part in the Guided Education Paths either through **physical mobility, virtual participation, or blended learning formats**. Professors and study programme coordinators play a key role in maintaining academic standards and aligning the courses with the agreed objectives of the paths. Monitoring and feedback mechanisms between professors and local education officers are established to address any challenges and ensure seamless delivery.



From an administrative perspective, whenever possible and permitted by institutional regulations, priority should be given to ENHANCE students for accessing the course offerings. Furthermore, **embedding the Guided Education Paths in the local curricula** is strongly encouraged to maximize their promotion, impact and sustainability.

## Timeline



## Inclusivity aspects

At ENHANCE, we consider inclusivity and accessibility to be a uniting attribute in all our offers. Creating offers that are accessible to all, should be a key consideration when planning any learning opportunity, regardless of the target group. For onsite phases, this includes ensuring barrier-free access to lecture rooms and other facilities, as well as to programme activities such as museum visits, group dinners, and other events. The [ENHANCE Diversity Office](#) is available to support you in designing both online and onsite learning activities to be as inclusive as possible.

# Overview of Tasks for Study Programme Coordinators

Task	Frequency	Workload	Notes
Coordination of the academic working group	5 online + 1 in-person meeting	1 hour preparation 1.5 hours/meeting (online) 1 ½ days (in-person)  <b>(About 25 hours/ year)</b>	A coordinator is required in order to implement Guided Education Paths. Coordinating implies preparing meetings and leading the group towards the implementation of the Guided Path.
Participation in academic working group	5 online + 1 in-person meeting	1.5 hours/meeting (online); 1 ½ days (in-person)  <b>(About 19 hours/ year)</b>	
Signing agreements (if needed)	Once	1 hour	Some institutions may require that specific agreements are signed to formalize the collaboration between study programs and enable student mobility.
Initial process to define course offer	Once	6-8 hours	
Pre-emptive recognition of partner courses	Once	2- 24 hours	Time required varies among institutions and depends on the depth of the analysis required to recognize courses of the partner institutions
Annual course offer updates (review)	Annually	1 hour (per year)	
Pre-emptive recognition of updated courses	Annually	2 hours (per year)	
Information and promotion sessions for students interested in ENHANCE	1-2 times per year	6 - 12 hours	
Outgoing student selection support	Bi-annually	2 hours per year	Depending on the internal organisation of each university
Ongoing support to students during mobility	Upon request	2 hours per year	Depending on the internal organisation of each university

# FIND SUPPORT IN YOUR LOCAL ENHANCE TEAM

ENHANCE provides a broad range of support structures and services that facilitate the implementation of our One Campus vision:

## **ENHANCE Education Officer**

Every ENHANCE member university has a local Education Officer who supports teaching staff in the implementation of an ENHANCE learning opportunities. The local Education Officer should be your main contact point in the creation and implementation process of your learning opportunity. You can find an overview of contact details from our ENHANCE Education Officers on the next page.

## **ENHANCE Mobility Officer**

The local Mobility Officer, usually positioned in your university's International Office, will support you with the management of the international participants including their registration/enrolment process or the handling of scholarships (if any). Sometimes the Education and the Mobility Officer are the same person, sometimes responsibilities are split between two people.

## ENHANCE Local Communication Officer

The ENHANCE Communication Team, composed by the ENHANCE Central Communications Officer and the ten Local Communications Officers at our member universities, coordinates our various outreach activities, collects and manages content for the central ENHANCE website and social media channels, and can support you in the creation and dissemination of promotional materials.

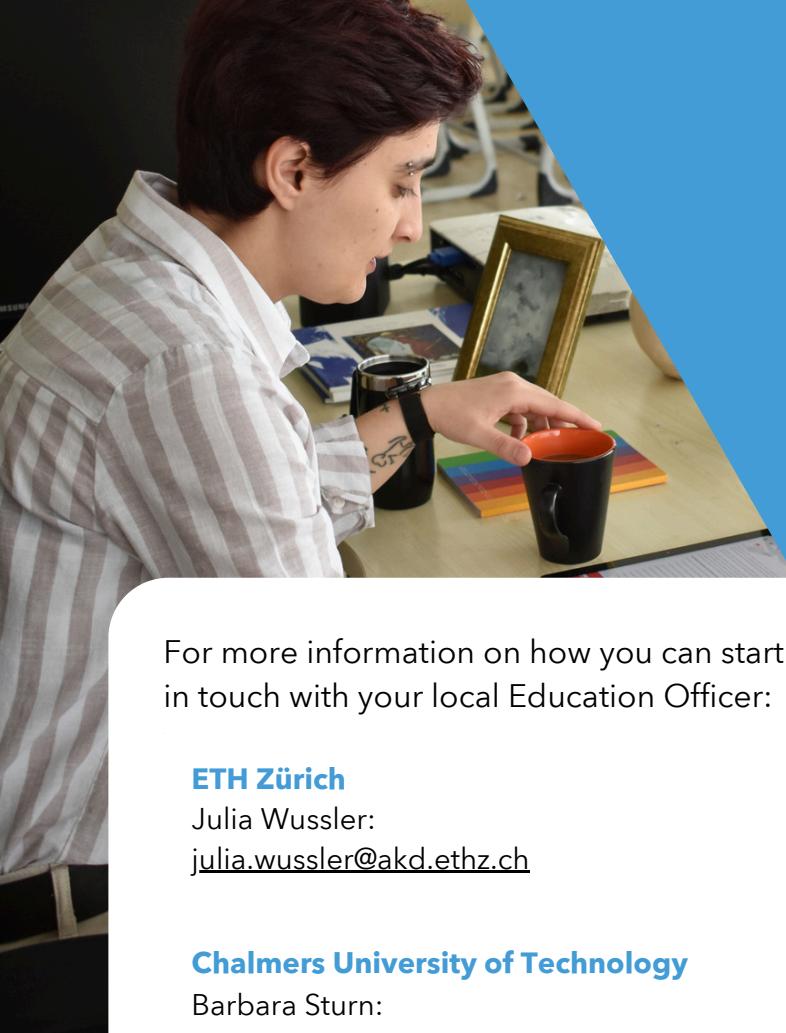
ENHANCE Operational Office

The ENHANCE Operational Office is composed of the central project management team and can provide support in identifying suitable funding opportunities on EU level. You can find the [contact details of the ENHANCE Operational Office team](#) on our ENHANCE website.

ENHANCE Diversity Office

The ENHANCE Diversity Office supports you in designing your learning opportunity as inclusive as possible and in reaching out to underrepresented groups during promotion activities. [✉ Contact the ENHANCE Diversity Office](#) for more information.





# ARE YOU READY TO **ENHANCE** LEARNING ACROSS EUROPE?

For more information on how you can start your journey as an ENHANCE educator, get in touch with your local Education Officer:

## **ETH Zürich**

Julia Wussler:

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Find all information online over at [enhanceuniversity.eu/publications/toolkits](http://enhanceuniversity.eu/publications/toolkits).



Watch the ENHANCE EEP Explainer Video on our [YouTube Channel](#)!

## LET'S CONNECT!

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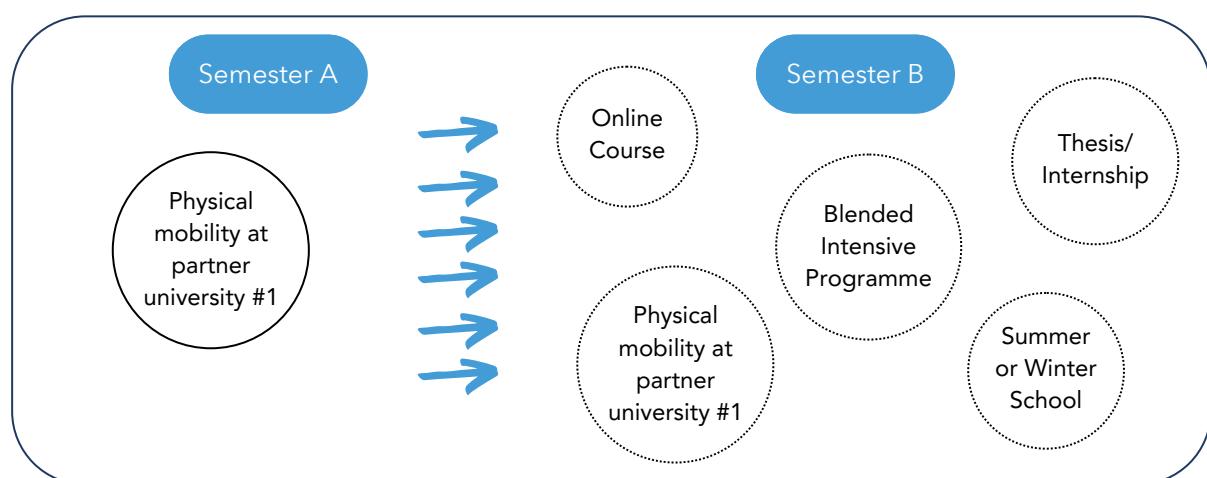
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# Annex

# EXAMPLES OF ENHANCE GUIDED EDUCATION PATHS

## 1) ENHANCE Guided Education Paths

The following tables show the most common options an Enhance student could choose from. Within Enhance Guided Education Paths (table 1), the focus is on the Study Programme the Enhance student can spend a physical mobility semester at partner university #1 and then an additional experience at a different partner university can be attended during a different semester and it can be chosen among physical, blended and virtual experiences.



## 2) ENHANCE Guided Thematic Education Paths

Within Enhance Guided Thematic Education Paths (table 2) the focus is on the developed theme, under a specific Study Programme, designed by the Academic staff. The Enhance student can choose where to spend the physical mobility semester and which additional specialization courses to attend, according to the institutions which offers the Thematic Path in the specific subject.



### Example Scenarios:

#### Water Energy Path for a PoliMi student in Energy Engineering



#### Water Energy Path for a Chalmers student in Energy Engineering

