JEDI List of European joint degrees in engineering, technology, and applied sciences in Europe

Deliverable D2.2

Date: October 2023

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List of European joint degrees in engineering, technology, and applied sciences in Europe

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Concerned work package leader: UNIVERSITAT POLITECNICA DE VALENCIA – UPV - (SPAIN)

Dissemination level: PU [1]

Authors: Julien Maheut & Javier Rodrigo

[1] PU – Public; PP - Restricted to other program participants (including the Commission Services); RE - Restricted to a group specified by the consortium (including the Commission Services); CO - Confidential, only for members of the consortium (including the Commission Services).

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JEDI Partners

Name	Short name	Country
UNIVERSIDAD POLITÉCNICA DE MADRID	UPM	Spain
ÉCOLE NATIONALE DES PONTS ET CHAUSSÉES	ENPC	France
ISTANBUL TEKNIK UNIVERSITESI	ITU	Turkey
UNIVERSITATEA POLITEHNICA DIN BUCURESTI	UPB	Romania
BUDAPESTI MUSZAKI ES GAZDASAGTUDOMANYI EGYETEM	BME	Hungary
UNIVERSITE DE TECHNOLOGIE DE TROYES	UTT	France
HOCHSCHULE DARMSTADT (UNIVERSITY OF APPLIED SCIENCES H-DA)	H-DA	Germany
UNIVERSIDAD POLITECNICA DE CARTAGENA	UPCT	Spain
TECHNOLOGIKO PANEPISTIMIO KYPROU	CUT	Cyprus
TECHNICAL UNIVERSITY OF SOFIA	TU-SOFIA	Bulgaria
UNIVERSITATEA TEHNICA CLUJ-NAPOCA	UTC	Romania
CHALMERS TEKNISKA HOGSKOLA AB	CHALMERS	Sweden
UNIVERSITE PARIS SCIENCES ET LETTRES	PSL	France
UNIVERSITAT POLITECNICA DE VALENCIA	UPV	Spain
RIGAS TEHNISKA UNIVERSITATE	RTU	Latvia
TECHNOLOGICAL UNIVERSITY DUBLIN	TU-DUBLIN	Ireland

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JEDI Executive Summary

In the field of policy experimentation in higher education under the Erasmus+ program, the Joint European Degree Label in engineering (JEDI) is part of the 2022 Erasmus+ Work Program call. The general objective of JEDI is to develop a prototype label for European joint degrees, co-developed with 16 HEIs from three European Universities (EELISA, EUt+ and ENHANCE) and under the perspective of engineering, technology, and science-oriented education. The added value of this project is built on the shared ambition of this consortia to redefine the education of engineering and technology degrees in Europe with the will to contribute to the development of an integrated European Engineering Education Space.

The project is based on the collaboration and discussion between agencies, academia, and diverse stakeholders. To ensure visibility and engage students, JEDI will create three co-labs for the decisive steps of validation and demonstration. All the partners, including associate partners, will appoint experts and stakeholders (e.g., HEIs, associations, students, and accreditation agencies) that will contribute to the optimisation of the set of criteria.

JEDI is a one-year project structured around four work packages (WPs), as depicted in the schematic. WP4 has three crucial objectives: to communicate the project and its results, to disseminate the outcomes towards the people responsible for joint degrees (in our HEIs and in external consortia) and to prepare recommendations for policymakers, accreditation agencies and European HEIs interested in implementing this label. This project has not received any additional funding from the three European Universities; the costs have been paid by EU funding and partners.

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1 Deliverable's Executive summary

Joint European Degree label in engineering - Toward a European framework for engineering education - (JEDI) project aims to develop a prototype label for joint European degrees in engineering, technology, and science.

This objective arises from the necessity of defining a common European framework valid for all engineering studies and facilitating the design, implementation, and added value of European joint degree programmes.

To achieve this goal, JEDI intends to unite the experiences of 16 Higher Education Institutions (HEIs) from 11 countries and the participation of 3 European Technological Universities (EELISA, EUt+, and ENHANCE). Together, they aim to explore and propose a common framework of necessary and valuable criteria for the design and validation of a European label for joint programmes that are essential and specific to the fields of engineering, technology, and science.

Within the planned activities of this project, the first crucial stage in the design of a label proposal involves the necessary mapping of the current situation of accredited joint programmes and the identification of potential pioneers in the evaluation, validation, and use of the label. This analysis of the current situation comprises two distinct but necessary parts: studying accreditation processes within the European framework and analysing accredited programmes.

This deliverable focuses on analysing the situation of accredited joint programmes in the STEM (Science, Technology, Engineering, and Mathematics) field as of July 2023 to identify interest in proposing a specific label for these areas of knowledge/education. The analysis presented in this document is supported by a methodology (3.1), which will be described, and a descriptive analysis of the studied programmes (3.2). It will delve into the programmes' alignment with mandatory and optional criteria proposed by the European Commission (3.3). The future of joint engineering degrees (4.1) and the interest in designing a specific label (4.2) will be evaluated. The deliverable concludes with some insights into the future steps to be taken within the framework of the JEDI project (5).

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2 Introduction

2.1 Background

Higher education programmes related to engineering, technology, and sciences in Europe play a fundamental role in local, European, and global development and competitiveness. Today, disruptive technologies are constantly emerging, and it is crucial to integrate and utilise them to maintain a position in a globalised environment. Consequently, there is a consistent growth in demand for professionals with skills in Technology, Sciences, and fields related to Engineering. To the rapid technological evolution, we must add the need to address global challenges such as climate change, public health, and the digitalisation of the economy. For these reasons, this demand is not expected to decrease.

In Europe, engineering, sciences, and technology programmes are characterised by their diversity and quality. Engineering in Europe encompasses various educational approaches, often reflecting the absence of a global and common framework for defining an engineer. The presence of regulated professions at the national level, which ensures high standards of competence and establishes a solid legal framework in fields like civil, mechanical, or industrial engineering, for example, can pose a barrier to creating joint programmes among European Higher Education Institutions (HEIs).

The European Commission, following the creation of the European Higher Education Area through the Bologna Process[2], has continued its strategic efforts to promote the development of a common European space. As part of its major initiatives, it has encouraged the establishment of joint programmes through the Erasmus Mundus actions within the Erasmus+ program[3]. Implementing Joint Programmes enables students to gain international experiences and acquire intercultural skills and enhances European culture, mobility, and the values of the European Union.

Additionally, as a new focus area, there is an effort to promote the implementation of European Joint Degrees as tools to enhance collaboration among European Higher Education Institutions (HEIs) and as a mechanism for integration within European Universities. This underscores the commitment to harmonise further and strengthen the European higher education landscape.

In this document, the following definitions clarify the distinctions between joint programmes and joint degrees within the context of European higher education,

[2] Council Recommendation of 5 April 2022 on building bridges for effective European higher education cooperation

[3] European Commission, European Education and Culture Executive Agency, (2020). Implementing joint degrees in the Erasmus Mundus action of the Erasmus+ programme, Publications Office. URL: https://data.europa.eu/doi/10.2797/896549

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emphasising the collaborative nature of joint programmes and the official recognition of joint degrees.

- *Joint programme: This refers to an integrated curriculum coordinated and offered collaboratively by multiple higher education institutions from European Higher Education Area (EHEA) countries. The key outcome of a joint programme can be either double/multiple degrees or a joint degree.*
- *Joint degree: A joint degree is a single document awarded to students who have successfully completed a joint programme. This degree is typically conferred by the higher education institutions that are involved in offering the joint programme. Importantly, it is nationally acknowledged and recognised as the official and legitimate credential of the joint programme.*

A "Joint Programme" involves collaboration in offering a study programme where students can receive individual degrees from the participating institutions. A "Joint Degree" represents a more significant step toward European unity, as it entails students earning a single degree jointly conferred by two or more higher education institutions. This involves various organisational and accreditation considerations. Confusion often arises when trying to draw parallels with the types of degrees obtained by students, such as multiple degrees, dual degrees, and joint degrees. Joint degrees go step further in recognising learning outcomes and competencies between higher education institutions (HEIs). They promote academic excellence, graduate employability, and cultural diversity within the educational sphere. This distinction is crucial to understand the significance of joint degrees in the European higher education landscape.

The advent of "Engineering 4.0" is ushering in significant transformations in the technology landscape. This trend is characterised by the convergence of advanced technologies such as artificial intelligence, the Internet of Things (IoT), and additive manufacturing. "Engineering 4.0" is reshaping entire industries, from manufacturing to healthcare, and is creating new opportunities and challenges in the education and training of STEM professionals.

Promoting STEM studies and advocating for joint degrees in Europe is a critical step. It presents an opportunity to foster synergies among Higher Education Institutions (HEIs) and align academic offerings with emerging technologies essential to meet the demands of an increasingly tech-savvy society. This alignment is beneficial for students and crucial for the continued growth and competitiveness of European industries in the era of technological advancements.

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Indeed, in the rapidly evolving technological landscape, academic offerings should not solely focus on high-level competencies in technology. Projects like the EELISA Engineer Profile[4] are vital in proposing a common framework for engineers of both today and tomorrow. This framework recognises that digital competencies are the cornerstone of modern engineering education but also emphasises the importance of training in areas such as sustainability, multiculturalism, and soft skills.

Preparing engineers with a well-rounded education that encompasses not only technical expertise but also skills in areas like sustainability and intercultural competence is crucial. This ensures that today's education shapes the future generation of technologically proficient European engineers who are socially and environmentally conscious and adaptable to diverse global contexts.

2.2 Objectives

In the JEDI project, this deliverable D2.2, which falls under Work Package 2 - Assessment of the current situation, serves as one of the two inputs for Work Package 3 - Developing the JEDI label. Within Work Package 3, the development of the JEDI label will be coordinated in conjunction with the creation of three collaborations (collabs), ultimately leading to a proof of concept for the JEDI label.

The design and validation of the label proposal will involve evaluating its application in both existing and emerging joint degree programmes to demonstrate its feasibility in a real-world context. This comprehensive approach ensures that the JEDI label is theoretically sound, practical, and effective in enhancing the quality and recognition of joint European degrees in engineering, technology, and science.

Within this framework, the overarching objective of the deliverable is as follows:

- Analise the extent to which current joint programmes align with the criteria set forth by the European Commission and assess the potential value of designing a label for joint degrees in the engineering, technology, and science fields in Europe (GenObj).

This objective underscores the importance of evaluating existing joint programmes in relation to European Commission criteria and determining whether creating a label for joint degrees in these fields would be beneficial and valuable within the European higher education context.

[4] Gorgul, E., & Erden, H. (2022). In the search for the future engineer: the EELISA disciplinary broadening workshop experience. In *Towards a new future in engineering education, new scenarios that european alliances of tech universities open up* (pp. 1206-1216). Universitat Politècnica de Catalunya.

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To achieve this overarching objective, several specific objectives have been outlined:

- Develop a methodology for identifying existing Joint Programmes in the European STEM field (SpObj1).
- Map the existing joint programmes accredited by EQAR or other Quality Assurance (QA) agencies (SpObj2).
- Identify the owners or stakeholders of existing joint programmes to collaborate in validating the label (SpObj3).
- Analise the degree of alignment of joint programmes with the mandatory and optional criteria proposed by the European Commission (SpObj4).
- Discuss the future of joint degrees in the European engineering, technology, and science space, emphasising the relevance of creating a specific label for these degrees (SpObj5).

These specific objectives provide a structured approach to comprehensively assess the current landscape of joint programmes in STEM fields in Europe and determine the feasibility and potential benefits of introducing a specific label for them.

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3 Methodology to review existing Joint Programmes

3.1 Protocol description

A structured methodology has been designed to gather information about the current situation of joint programmes in the fields of engineering, technology, and science in Europe. This methodology aims to collect the necessary information and analyse all the essential dimensions for the subsequent activities of the project (Figure 1).

A well-designed methodology ensures that data collection and analysis are systematic, comprehensive, and aligned with the project's objectives. It provides a structured framework for conducting the assessment and serves as a foundation for informed decision-making and action planning in the project.

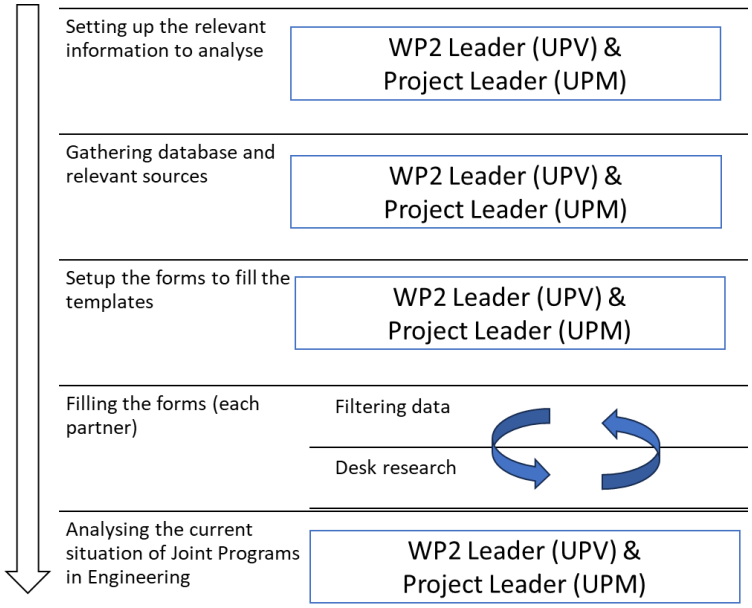

Figure 1 Proposed methodology to assess the current situation of joint programmes

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3.1.1 Required information

In the first step, a dedicated team established the minimum required information necessary to collect quantitative and qualitative evidence aligned with mandatory and optional criteria for creating a label for European joint degrees[5].

The mandatory criteria (CC) proposed by the European Commission are listed in Table 1.

Id.	*Criteria name*
CC01	Higher education institutions involved
CC02	Transnational joint degree delivery
CC03	Transparency of the learning outcomes
CC04	Quality assurance arrangements
CC05	Joint policies for the joint programme
CC06	Transnational campus – access to services
CC07	Flexible and embedded student mobility arrangements
CC08	Multilingualism
CC09	Innovative Learning approaches
CC10	Graduate outcomes
CC11	Inclusiveness and sustainability

Table 1 Set of mandatory criteria for a Joint European Degree label

Regarding the optional criteria (OC), the document proposes a set of criteria that can be categorised as shown in Table 2.

Id.	*Criteria name*
OC01	Additional formats of transnational learning activities with partner higher education institutions
OC02	Possibility of taking language classes
OC03	Cooperation with businesses and sectors in its curriculum
OC04	International professional internships/work-based learning recognised through the award of ECTS
OC05	Career development plan devised with the candidate
OC06	Inclusion in the programme of components and actions related to environmental sustainability
OC07	Inclusion in the programme of components and actions related to high-level digital skills of students
OC08	Participation in activities promoting democratic values and addressing societal needs of the local community(-ies), including volunteering, recognised through the award of ECTS
OC09	Joint promotion and awareness-raising activities

Table 2 Set of optional criteria for a Joint European Degree label

[5] Burneikaite, G., Pocius, D., & Potapova, E. (2022). The road towards a possible joint European Degree: identifying opportunities and investigating the impact and feasibility of different approaches.

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The WP3, through its three collabs (Institutional, Innovative Learning Approach, European Added Value), had proposals on key dimensions considered in Table 3.

Colab type	**Dimension**	**Relationship with CCs**	**Relationship with OCs**
Institutional	Admissions	CC01; CC05; CC06	
	Awarding degrees	CC02; CC05	
Innovative learning approach	Relevant hard, soft, and future skills	CC03; CC10	OC3; OC7
	Interdisciplinary and intersectoral components	CC09;	OC01; OC03
	Learning methodologies like challenge-based approaches	CC09;	OC3; OC4
European added value	Multiculturalism and diversity	CC08; CC06	OC02; OC8
	Inclusiveness	CC11; CC06	
	Green and digital transitions	CC11;	OC7

Table 3 Draft proposal of dimensions to analise per colab in JEDI's WP3

3.1.2 Relevant sources selection

To ensure access to reliable and up-to-date information about existing and accredited programmes, the project has opted to consider four types of sources:

1. The databases of the European Quality Assurance Register for Higher Education (EQAR) available at https://www.eqar.eu/
2. The databases of Erasmus Mundus programmes within the Erasmus+ program, accessible at https://www.eacea.ec.europa.eu/scholarships/erasmus-mundus-catalogue_en
3. European Commission programmes: https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search
4. The expert knowledge of the various partners and their respective alliances.

With these sources of information, the following files were downloaded:

- ✓ List of European countries (link) with its official acronym (link)
- ✓ List of EQAR agencies (link)
- ✓ List of High Education Institutions (HEIs) (link)
- ✓ List of accredited programmes (link)

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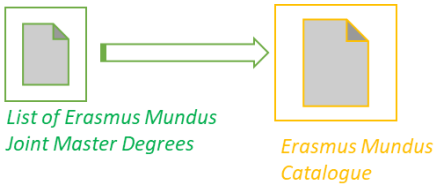
On the other hand, the Erasmus Mundus programmes are accessible through the official European Commission website featuring an updated catalogue.



Finally, there are the new calls for proposals from the European Commission, along with the expert knowledge of the partners and their respective alliances.

In brief, with the EQAR databases, there is a list of 72 agencies whose functions for accrediting joint programmes or adopting the European Approach for Quality Assurance of Joint Programmes are presented in Table 4. This table does not reflect that ASIIN offers Euro-Inf, AMSE, EUR-ACE, EQAS-Food, and Eurobachelor JP Review. At the same time, EAEVE is responsible for the European System of Evaluation of Veterinary Training (ESEVT) - joint programme.

		European Approach for QA of JP	
		Yes (12)	**No (60)**
Joint Programme Accreditation/Review	**Yes (26)**	**9 EQAR Agencies** AAC-DEVA: Andalusian Agency of Knowledge, Directorate for Evaluation and Accreditation AQAS: Agency for Quality Assurance through Accreditation of Study Programmes AQ Austria: Agency for Quality Assurance and Accreditation Austria NCEQE: National Center For Educational Quality Enhancement NVAO: Accreditation Organisation of the Netherlands and Flanders PKA: Polish Accreditation Committee Unibasq: Agency for Quality of the Basque University System VLUHR QA: Quality Assurance Unit of the Flemish Higher Education Council ZEvA: Central Evaluation and Accreditation Agency	**17 EQAR Agencies** A3ES: Agency for Evaluation and Accreditation of Higher Education ACPUA: Aragon Agency for Quality Assurance and Strategic Foresight in Higher Education ACQUIN: Accreditation, Certification and Quality Assurance Institute ACSUG: Agency for Quality Assurance in the Galician University System AEQES: Agence pour l'Evaluation de la Qualité de l'Enseignement Supérieur AHPGS: Accreditation Agency in Health and Social Sciences ANECA: National Agency for the Quality Assessment and Accreditation of Spain ARACIS: Romanian Agency for Quality Assurance in Higher Education ASIIN: ASIIN e.V. CYQAA: The Cyprus Agency of Quality Assurance and Accreditation in Higher Education EQ-Arts: Enhancing Quality in the Arts evalag: Evaluation Agency Baden-Württemberg HAKA: Estonian Quality Agency for Education madri+d: Fundación para el Conocimiento Madrimasd MusiQuE: Music Quality Enhancement SKVC: Centre for Quality Assessment in Higher Education SQAA: Slovenian Quality Assurance Agency
	No (46)	**3 EQAR Agencies** AQU: Catalan University Quality Assurance Agency ASHE: Agency for Science and Higher Education HCERES: High Council for Evaluation of Research and Higher Education	**The other 43 EQAR agencies**

Table 4 Activities of the EQAR agencies related to Joint Programmes and the European Approach for QA of JP

In the database of evaluated programmes whose reports are referenced in EQAR, an approximate total of 95,000 report identifiers have been found, of which around 172 are Joint Programmes. Nearly 63% are Master's programmes,

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33% are Bachelor's (or equivalent), and the presence of PhD programmes is minimal, accounting for only 2% (see Table 5).

Programme Qualification Level	**Quantity**
Short cycle	2
1st cycle	59
2nd cycle	108
3rd cycle	3
Total general	**172**

Table 5 Distribution of Joint Programmes by Qualification Level

Digging deeper into the analysis of the 16 agencies with accredited reports, Figure 2 displays a Pareto chart showing that 2 agencies, ASIIN and AEQES, have accredited nearly 70% of the joint programmes. Following them are CYQAA, AQ Austria, AQAS, NCEQE, and NVAO, with more than 5 reports each. The remaining agencies represent less than 10% of the other accredited joint programmes.

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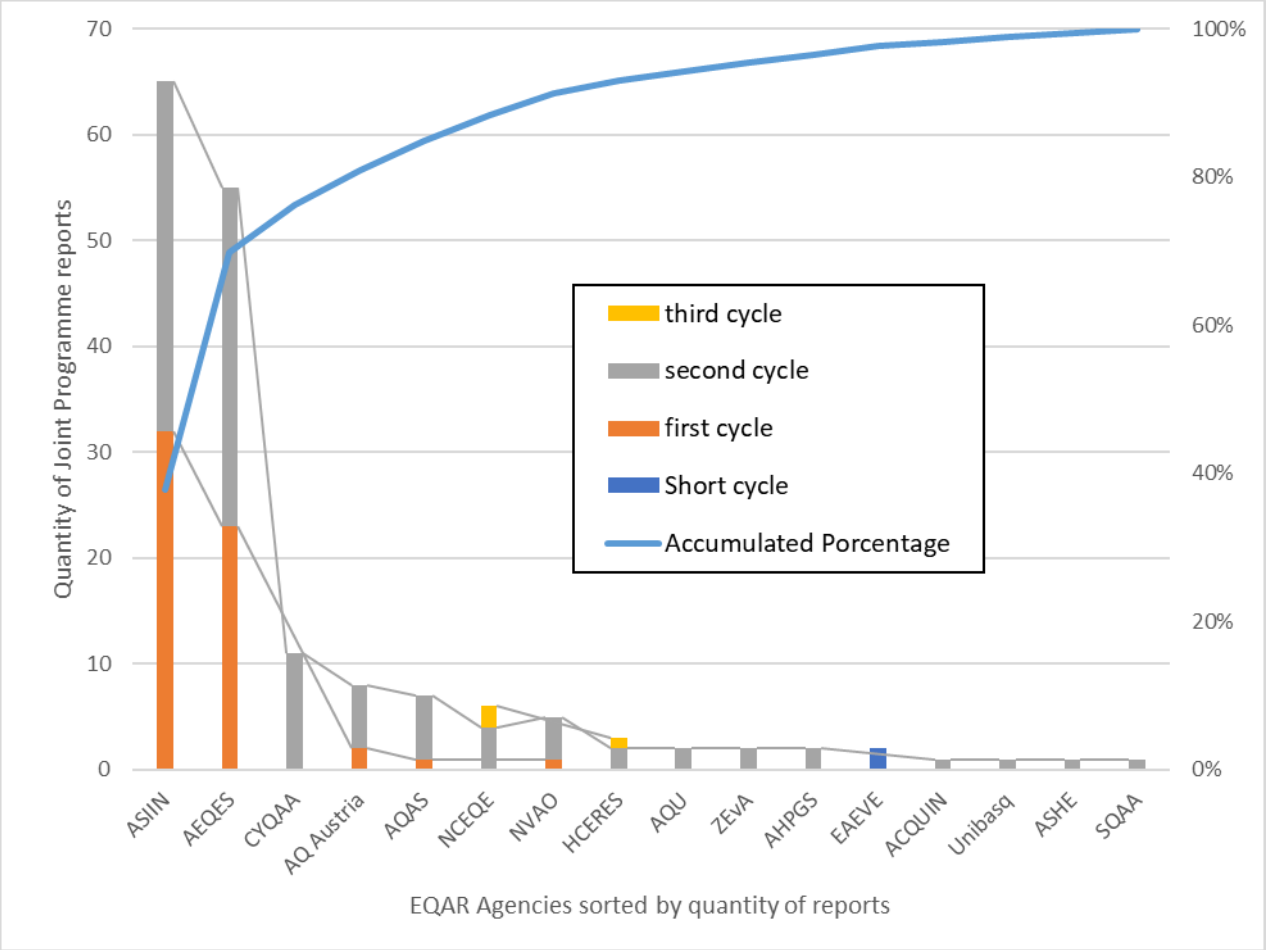

Figure 2 Pareto chart of Joint Programme reports by EQAR agencies

Upon analysing the type of reports (Table 6), it can be observed that the types of reports (and consequently, accreditation) vary among agencies. In most instances, agencies accredit (and classify in the EQAR database) reports according to a single type. In some cases, accreditation/evaluation is complemented with reports of the "European Approach for QA of Joint Programmes" type. ASIIN appears to be the only agency that accredits joint programmes for EUR-ACE, Euro-Inf, and Euromaster simultaneously with traditional accreditation. For EUR-ACE and Euro-Inf, there is a balanced volume between Bachelor's and Master's programmes (see Table 7), while Euromaster is exclusively for Master's programmes.

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	ASIIN	AEQES	AQAS	NVAO	AQ Austria	CYQAA	NCEQE	HCERES	Unibasq	AQU	ZEvA	ACQUIN	EAEVE	AHPGS	SQAA	ASHE	Total
Programme evaluation		55															55
Programme accreditation	26												1			1	28
EUR-ACE review	27																27
European Approach for QA of Joint Programmes				2	7		4	3	2	2				1	1		22
Joint programme accreditation			11	6			1				2						20
Euro-Inf review	10																10
Accreditation of joint programmes						6											6
ESEVT accreditation												2					2
Euromaster review	2																2
Total general	65	55	11	8	7	6	5	3	2	2	2	2	1	1	1	1	172

Table 6 Quantity of Joint Programmes by agencies and Report type

	Short course	1st cycle	2nd cycle	3rd cycle	Total
Programme evaluation		23	32		**55**
Programme accreditation		13	15		**28**
EUR-ACE review		13	14		**27**
European Approach for QA of Joint Programmes		2	19	1	**22**
Joint programme accreditation		2	18		**20**
Euro-Inf review		6	4		**10**
Accreditation of joint programmes			4	2	**6**
ESEVT accreditation	2				**2**
Euromaster review			2		**2**
Total general	**2**	**59**	**108**	**3**	**172**

Table 7 Quantity of Joint Programmes by agencies and Qualification level

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To facilitate data cross-reference, the Erasmus Mundus Joint Master catalogue[6] currently offers 193 Master's programmes. By applying filters associated with engineering, technology, and sciences, more than 130 of these programmes could be of particular interest.

However, both in the Erasmus Mundus Joint Masters catalogue and the EQAR database, there are no filters that allow for the specific selection of degrees and programmes for the JEDI project. Furthermore, the fact that reports may exist in languages other than English and that programme websites may contain detailed information makes it necessary to analyse programmes voluntarily among partners based on their capabilities to extract and analyse relevant data.

3.1.3 Structure of the designed database and partner's contribution

According to the available databases and the requirements for developing and validating the label, each partner was invited to review up to 6 Joint Programmes freely. To ensure consistent information, a database was designed to collect the necessary evidence/dimensions for the mandatory and complementary criteria of the European Commission.

Below is the structure of the fields to be filled out, which were discussed and accepted in the project (Table 8). Partners had 8 weeks to analyse the selected programmes.

[6] https://www.eacea.ec.europa.eu/scholarships/erasmus-mundus-catalogue_en

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Dimensions	**Description**	**Related CCs & OCs**
Id.	Identification – Numerical Value and unique for each reviewed Joint Programme	
STEM	Yes/No - if the programme is in engineering, technology and applied sciences	
Name	The full official name of the Programme	
Acro.	The full official acronym of the programme (It does exist for the Erasmus Mundus Programme.)	
Degree Type	PhD, MSc, ME, BSc, BE, BA, etc.	
Coordinator (Country)	Coordinator - Institution (country)	CC1
Partners (Country)	List of partners (with their respective countries)	CC1
Years	Number of years of the programme - Numerical value	
ECTS	Number of ECTS	CC3
URL	Official webpage of the degree (URL)	
Owner email	Email that will be used to contact the owners of the program	
Category	Area of Knowledge / Study Fields of the programme	
Type of JP	EMP (Erasmus Mundus Program) JP (European Joint Program) AJP (Alliance Joint Program)	CC2
Quality Agency	The agency or agencies responsible for the accreditation of the program	CC4
Delivered Degree type	Unique: Unique Joint degree diploma Double: Double degree diploma Multiple: Multiple degree diploma	CC1 CC2
Regulated Profession	Yes/No/NA	
Fees	Independent Dependent on the partner	CC5
Admission process	Unique and standard Differ from the partners	CC5 CC6
Mobility	Physical mobility [Months] Virtual mobility [months]	CC7 CC8 OC1
Internships	Yes/No/NA	OC4
Apprenticeships	Yes/No/NA	OC3
Seminars	Yes/No/NA	OC1
Learning method	Face-to-face/Blended/Full online	CC9 OC1
Report type	Joint programme accreditation / Euro-Inf review Euromaster review / Programme accreditation EUR-ACE review / Accreditation of joint programmes	CC4
Academic organisation	Year / Semester / Trimester / Month (regular or intensive courses)	CC5
Summer/winter school extra-activities	Yes / No / NA	OC1
Hackathons extra-activities	Yes / No / NA	OC1
Languages classes	Yes / No / NA	OC2
SDG competencies	Yes/No/NA	OC06
Digital Skills	Yes/No/NA	OC07
Volunteering recognition	Yes/No/NA	OC08

Table 8 Description of the fields to fill in to analyse Joint programmes

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3.2 Descriptive analysis of the gathered information

3.2.1 Basic information about reviewed joint programmes

A total of 41 joint programmes were surveyed (Figure 3). Most of these programmes are categorized as Master's degrees (over 80%), while Bachelor's degrees constitute a smaller portion (around 15%). Doctoral programmes are exceptional in this context, with only one having undergone reviewed.

It is worth noting that while Bachelor of Engineering (BE) and Master of Engineering (ME) programmes are exceptional within the context of joint programmes, the existing programmes in these categories are primarily related to STEM fields. This underscores the prevalence of STEM-focused joint programmes in the higher education landscape.

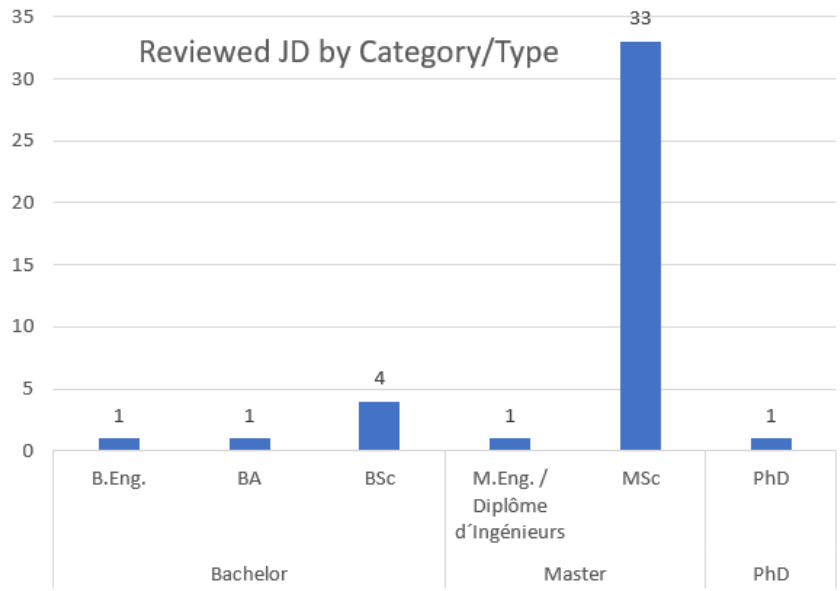

Figure 3 Reviewed Joint Programmes by Category and Type

The word cloud of the reviewed Joint Programme names (Figure 4) highlights the predominant focus on STEM (Science, Technology, Engineering, and Mathematics) programmes within the survey. This observation reinforces the emphasis on STEM-related joint programmes in the assessment.

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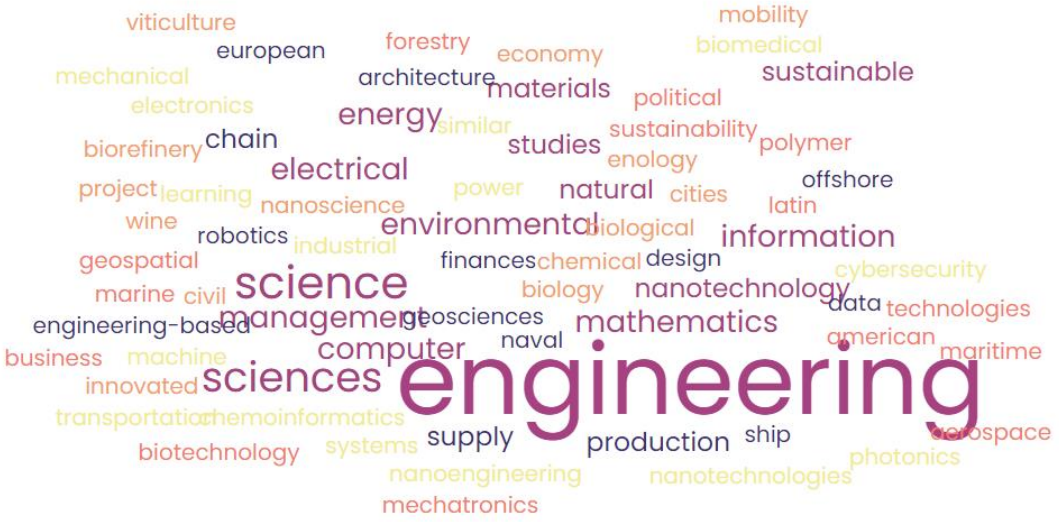

Figure 4 Word cloud of the reviewed Joint Programmes' names

The presence of Joint Programmes in higher education, particularly at the Master's degree level, follows a clear and historical trajectory. While there are some PhD Programmes, they are relatively rare in comparison. Bachelor's degree Programmes, on the other hand, are exceptional and typically either part of a combined Bachelor's and Master's programme in engineering studies or are specific to the relationships between the Coordinator and Partners.

Out of 41 reviewed joint programmes, approximately 25% of the programmes available in EQAR have been analysed, indicating significant coverage, especially in the Master's programmes. (Table 9).

	Accreditated Joint Programmes		Reviewed Joint Programmes		
Programme Qualification Level	Total	Proportion by type	Total	Proportion by type	Proportion reviewed
Short cycle	2	1,16%	0	0,00%	0,00%
1st cycle	59	34,30%	6	14,63%	10,17%
2nd cycle	108	62,79%	34	82,93%	31,48%
3rd cycle	3	1,74%	1	2,44%	33,33%
Total	172		41		23,84%

Table 9 Analysis of the sample of reviewed Joint programmes

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3.2.2 Analysis of Joint Programmes by type

Analysing the joint programmes in detail, it was found that 23 of the reviewed programmes are joint degrees, while 18 are joint programmes, resulting in the attainment of multiple diplomas.

When examining the coordinators, partners, collaborators, and the relationship between the group of HEIs involved in the programmes (Figure 5), we observed that the Erasmus Mundus programmes reviewed are balanced between Multiple Degrees (MD) and Joint Degrees (JD). Two joint programmes were classified as European Joint Programmes as they involve only European partners from various alliances. Six programmes include HEIs from the same alliance and were classified as Alliance Joint Programmes. However, it should be noted that one of them was funded through the Erasmus Mundus programme.

Finally, the remaining programmes were classified as "other." These Joint Programmes have traditionally been coordinated by Finnish, Swedish, Danish, or French HEIs. However, certain factors such as non-EU partners, EQAR reports, or available information make it challenging to classify these programmes definitively. In any case, these programmes are approximately 50% MD and 50% JD.

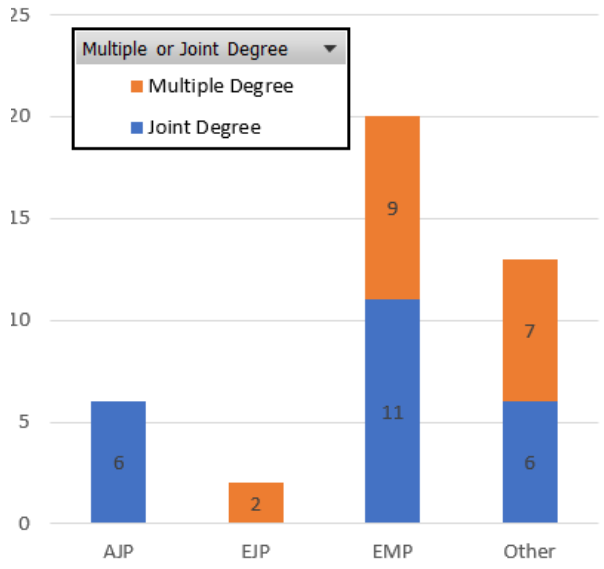

Figure 5 Analysis of the delivered diploma type by Programme type.

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3.2.3 Mapping the owners and partners

Among the reviewed programmes, it was observed that only 10 countries act as coordinators in joint programmes, with more than half of them coming from Germany, France, and Spain, with 9, 8, and 7 programmes, respectively (Figure 6). However, the participation as partners reflects that many HEIs from almost all European Union countries are involved (Figure 7), and generally, the number of partners tends to range from 1 to 5 (Figure 8).

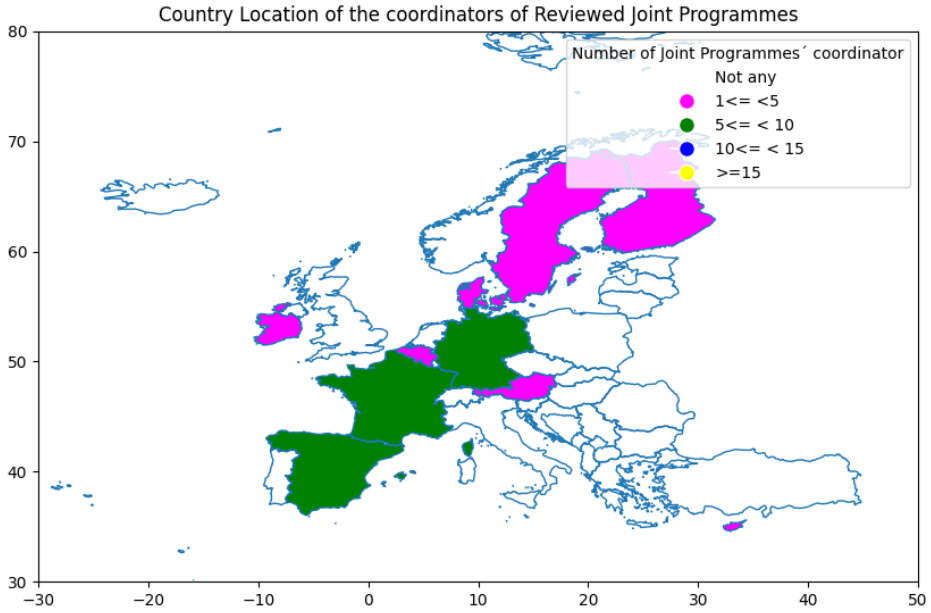

Figure 6 Coordinators' country of the reviewed joint programmes

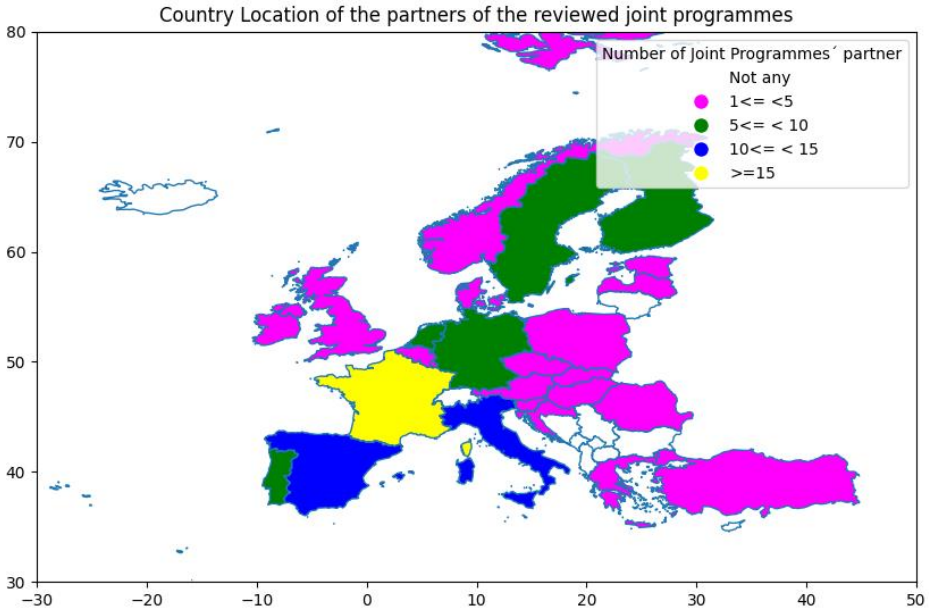

Figure 7 Quantity of HEIs participating as a partner in the different reviewed joint programmes

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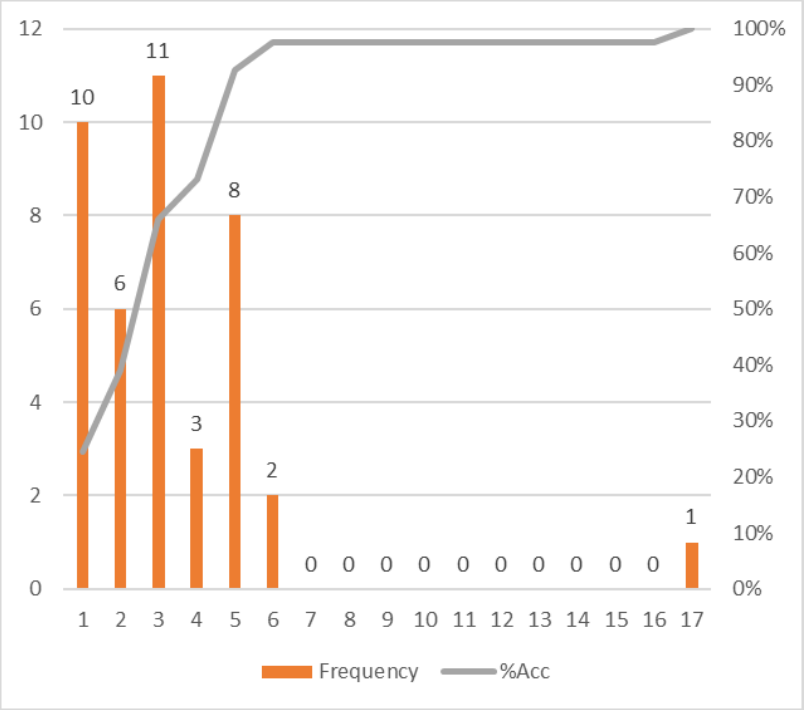

Figure 8 Pareto distribution of the number of partners per review joint programmes

3.2.4 European alliances

European Alliances are not the predominant historical mechanism for generating and obtaining accreditation for Joint Programmes.

Among the reviewed programmes, only 10% are associated with a European Alliance, while the remaining 90% are proposed outside the scope of these alliances or at least are going beyond the alliances.

However, European alliances play an essential role in the most recent joint degrees being offered (Table 10).

Alliance Name	**Level**	**Number of JPs**	**JD?**
UNA Europa	BA	1	Yes
EMERGE	MSc	1	Yes
EELISA	MSc	2	Yes
ULYSSEUS	MSc	1	Yes
EUCONEXUS	MSc	1	Yes
CHARM-EU	MSc	1	Yes

Table 10 The existing joint programmes of European alliances

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3.2.5 Specific features of Joint Programmes

With the information gathered from the various joint programmes, some mandatory criteria and a significant portion of the complementary criteria have been analysed.

Regarding the Sustainable Development Goals (SDGs) and environmental objectives (OC6), in Figure 9, it is noted that a limited number of programmes include actions and educational objectives related to the UN's SDGs. Generally, programmes that directly address the SDGs in terms of sustainability and the environment are those directly related to associated technologies.

Regarding the training of digital skills, half of the reviewed programmes offer specific and related training (Figure 10). Similarly, half of the programmes provide specific language training (Figure 11), recognise internships or seminars (Figure 12 and Figure 13), and only a quarter consider extra activities such as Summer/Winter schools (Figure 14).

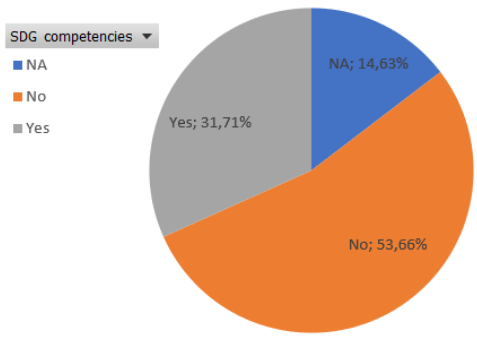

Figure 9 Presence of SDG competencies in the reviewed joint programmes

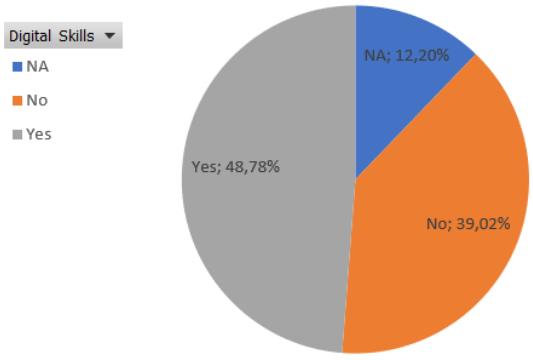

Figure 10 Presence of Digital skills in the reviewed programmes

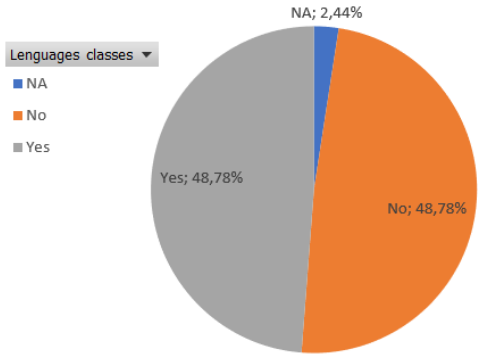

Figure 11 Presence of language classes in the curriculum of the reviewed programmes

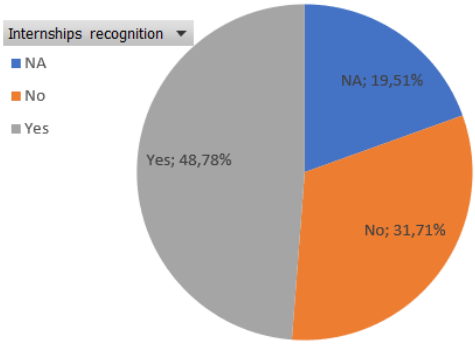

Figure 12 Internships in the curriculum of the reviewed programmes

However, many complementary criteria have sporadic presence, and in some cases, there is no evidence of related activities, as is the case with the recognition

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of volunteering activities (Figure 15), hackathons or apprenticeships (Figure 16 and 17).

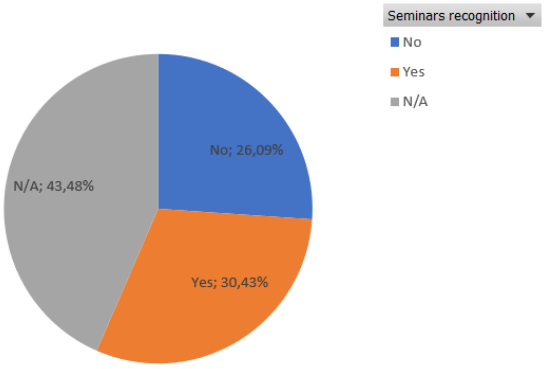

Figure 13 Seminars recognition in the curriculum of the reviewed programmes

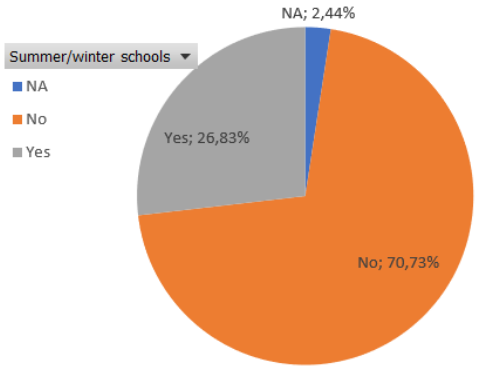

Figure 14 Presence of Summer/Winter schools in the curriculum of the reviewed programmes

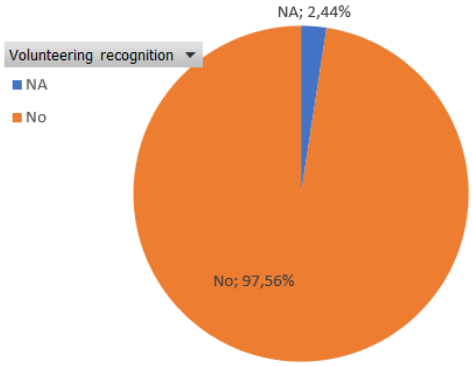

Figure 15 Recognition of volunteering in the curriculum of the reviewed programmes

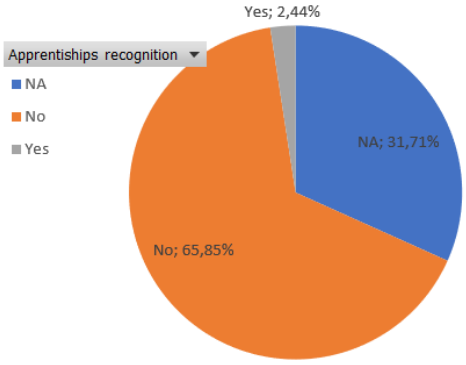

Figure 16 Apprenticeships in the curriculum of the reviewed programmes

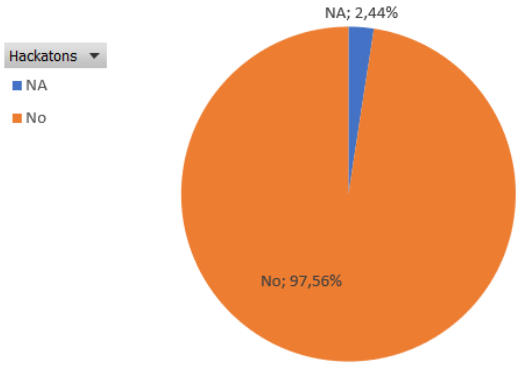

Figure 17 Hackatons in the curriculum of the reviewed programmes

Another noteworthy aspect of the current situation is that a considerable number of programmes are structured in semesters (Figure 18), but some opt for monthly

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periods. This standardisation into semester periods naturally arises due to the minimum mobility periods established, the fact that teaching is predominantly in-person (Figure 19 and the requirements for physical mobility (Figure 20).

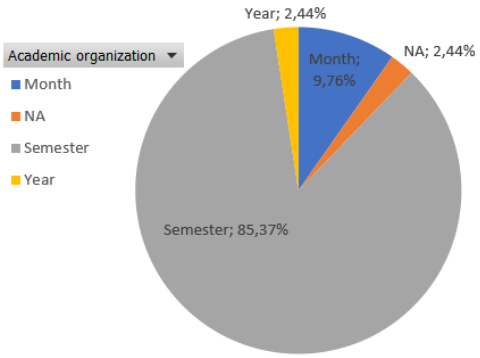

Figure 18 Academic organisation in the curriculum of the reviewed programmes

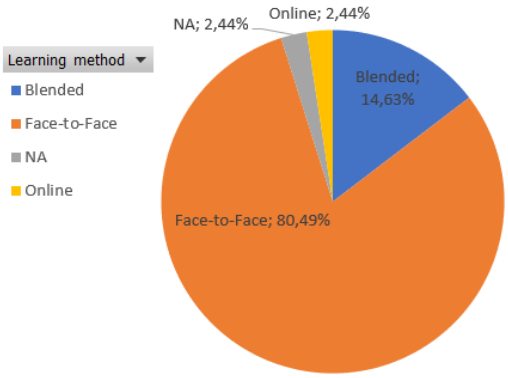

Figure 19 Learning method in the curriculum of the reviewed programmes

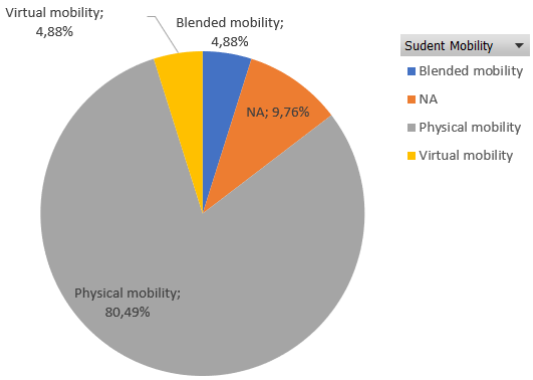

Figure 20 Physical mobility in the curriculum of the reviewed programmes

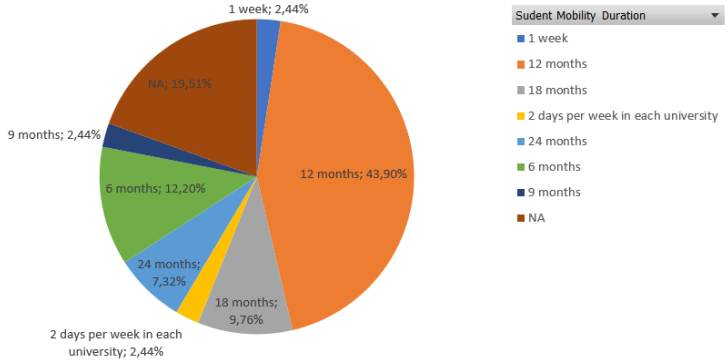

Figure 21 in the curriculum of the reviewed programmes

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The detailed analysis of possible student mobility shows significant variability and even some ambiguity in the found documentation. Nearly all programmes involve physical mobility (Figure 20) but blended and virtual mobility are beginning to appear in some programmes.

Programmes generally are organised around semester periods (6, 12, 18, or 24 months). Still, some programmes offer short-term occasional or regular mobilities if the two HEIs are nearby (Figure 21).

Additional dimensions that were analysed include fees and the admission system. Generally, it has been observed that the admission process is usually unique - 90% (Figure 23), and this is typically since students are admitted by the coordinating HEI of the programme and start studying there. Afterwards, mobility occurs at partner or collaborating HEIs, and there have been cases where the fees vary depending on the HEI's destination (Figure 22).

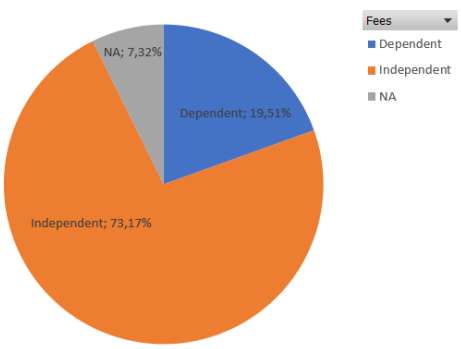

Figure 22 Fees of the reviewed programmes

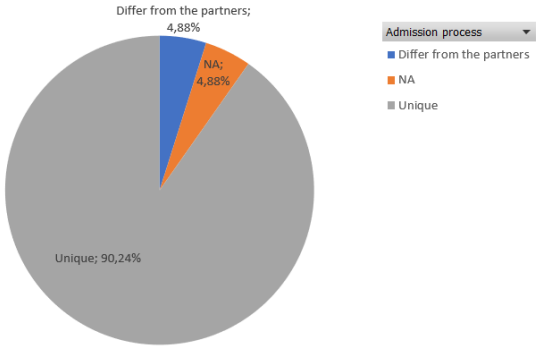

Figure 23 Admission process of the reviewed programmes

In the field of engineering education, the existence of regulated professions is indeed relevant[7]. For example, there are more than 45 different engineering professions with over 300 regulations. However, the reviewed joint programmes cover only a tiny fraction of these regulated professions (Figure 24).

[7] https://ec.europa.eu/growth/tools-databases/regprof/home

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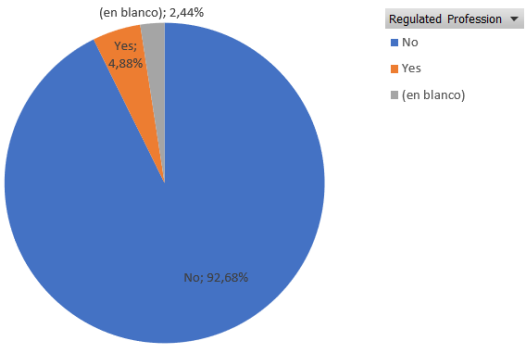

Figure 24 Regulated profession of the reviewed programmes

3.2.6 Future Joint Programmes

In addition to the already accredited programmes, potential active European projects outside the consortium have been analysed[8], which could potentially serve as early adopters of the JEDI label. A set of relevant projects has been selected as potential candidates (Table 11).

Title	Project Id
Advanced digital skills programme Artificial Intelligence and Health	101083880
Collaborative, Multi-modal and Agile Professional Cybersecurity Training Program for A Skilled Workforce In the European Digital Single Market and Industries	101083594
DigiQ: Digitally Enhanced European Quantum Technology Master	101084035
Digital skills for Healthcare Transformation	101083563
Digital twins for complex infrastructures and urban ecosystems	101084054
Master of Managing Digital Transformation in the Health Sector	101083896
Master of Science in Smart, Secure and Interconnected Systems	101083531
Master's Programme focused on the practical application of Advanced Digital Skills within European Companies	101084013

Table 11 Potential Early-adopters out of the consortium for the label

3.3 Insights

3.3.1 Compliance with Mandatory European criteria

After analysing the reviewed joint programmes, it appears that the European Criteria (mandatory ones) are being adhered to. At least no cases of non-compliance have been identified. However, it should be noted that the available information in the evaluation reports on EQAR and the programme websites has imposed limitations on the reviewers' ability to comprehensively extract and verify compliance.

[8] https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search

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Furthermore, it has been noted that there is a lack of clarity in publicly available information regarding the differences between the integration and compliance of the mandatory and optional European criteria. Specifically:

- No clear indication in any fields or documents regarding these differences in available public information exists.
- Additionally, the mandatory European criteria are not consistently described in the documents located.

Indeed, the importance of transparently documenting and communicating compliance with European criteria for Joint Programmes cannot be overstated. Clear and comprehensive compliance communication ensures transparency, instils confidence, and enhances the quality and recognition of these programmes.

In the case of mandatory criteria, the following aspects have been observed:

- Mobility is always justified and explicitly stated. In some instances, blended mobility is proposed, and virtual mobility is encouraged.
- Physical mobility traditionally consists of 2 semesters, which aligns with the mandatory criterion for Erasmus Mundus Joint Programmes.
- Physical mobility typically involves a minimum number of semester periods, with one semester being a requirement for a European Joint Degree. However, in a specific case involving a Joint Degree between two national universities in Germany, mobility considers the number of days per week in each Higher Education Institution (HEI) due to proximity.

These criteria help ensure that mobility within Joint Programmes is clearly defined and aligns with European standards and expectations.

This highlights the importance of transparently documenting and communicating compliance with European criteria for Joint Programmes to ensure clarity and confidence in their accreditation and quality.

3.3.2 Compliance with Optional European criteria

Indeed, the optional criteria proposed by the European Commission are not obligatory. Therefore, collecting objective evidence to determine whether programmes align with these criteria may not result in a comprehensive and dependable analysis of the current situation.

For example, the first criterion related to extra mobility for transnational learning activities with external HEIs, such as virtual exchanges, highlights the challenge in assessing compliance with optional criteria that may not be universally adopted or applied across programmes[9]. However, these activities, which are often

[9] https://youth.europa.eu/erasmusvirtual_en

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initiatives taken by faculty members, may not typically appear in reports or as standardised basic information on the official websites of the programmes. This lack of standardised information can make it challenging to assess the extent to which optional criteria are met.

Similarly, activities and educational objectives related to the Sustainable Development Goals (SDGs), sustainability, or digital competencies can be an integral part of the curriculum, either through directly aligned courses or as components within the syllabi of courses that may not have a close relationship with the subject matter. For this reason, the lack of mandatory or at least transparent and common criteria for these aspects makes it challenging to analyse the reality of these programmes reliably.

In conclusion, the recognition of activities such as summer schools and seminars is common, especially at the Master's level. This is an essential factor for attracting students, and recognition is frequent. Internships are also often recognised, but this is not the case for apprenticeships, which are promoted by the European Union and have legal frameworks in some EU countries[10]. The limited presence of apprenticeships appears to be related to the difficulties in their implementation and the different legal frameworks between countries.

Lastly, hackathons, which are increasingly common in technological universities, are not being integrated into the curricula of joint programmes or traditional degree programmes. However, they are critical educational activities for today's and tomorrow's engineers and scientists.

In any case, it should be noted that the optional criteria are sufficiently generic and open for any programme in any field of knowledge to select/design activities and their scope to align with them. However, they often do not have associated specific minimum metrics or requirements nor clear guidelines on how to justify compliance. This significantly limits visibility and transparency for reviewers as well as for students and society at large.

[10] https://ec.europa.eu/social/main.jsp?catId=1198&langId=en

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4 Why a specific label for joint degrees in engineering

4.1 The future of joint degrees in Europe for engineering

The future of joint degrees in engineering, technology, and sciences in Europe is promising. In an increasingly globalised environment where technology evolves at exponential rates and student recruitment tends to be more international, the mobility of highly skilled engineers within the EU is not just the future but the present reality. Joint degrees contribute to building a more flexible, mobile, and resilient European workforce aligned with European values.

Unlike joint programmes, joint degrees represent a step towards a higher level of integration in the European higher education system, clearly serving as a tool for European university alliances. This integration is taking place gradually, which explains the existing admission mechanisms and the difficulty in establishing uniform criteria and acceptable items for all HEIs.

Given the challenges HEIs face in offering complete degree programmes for various reasons (policy, economic, or resource-related), joint degrees should be seen as an opportunity for shared, scalable resource utilisation and an avenue to establish common European frameworks across all countries. This is particularly relevant for regulated professions, which are prevalent in engineering, and for deploying apprenticeships at the European level.

4.2 A joint European degree label, an opportunity?

Defining and implementing a European Degree Label for Joint Programmes in engineering, technology, and science holds significant interest for alliances for various reasons:

1. Standardization of Information: The label allows for the standardisation of information when applying for the label, making it easier to understand and evaluate.
2. Distinguishing between Mandatory and Optional Criteria: It clearly distinguishes between mandatory and optional criteria, highlighting the novelty or uniqueness of a given Joint European Degree (JEDI).
3. Highlighting Added Value: The label points out the specific added value of a JEDI, enabling comparisons between different degrees and programmes.
4. Creation of a Public Database: The label offers will facilitate the creation of a public database with common criteria that can be filtered, aiding students in making informed choices about their education.
5. Administrative Efficiency: The label streamlines administrative efforts related to the accreditation and recognition of Joint Programmes.

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6. Recognition of Professions: In the case of regulated professions like engineering, the label can boost recognition within the European space.
7. Homogeneity and Alignment: the label promotes homogeneity and alignment of learning outcomes and competencies across programmes, enhancing educational quality.
8. Transparency: The label enhances transparency in the evaluation and recognition of degrees, making the process more accessible and understandable.
9. Labor Market Opportunities: The label can potentially improve labour market opportunities for accredited European Joint Degrees graduates.

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5 Conclusions and future steps

This deliverable focuses on analysing the situation of accredited joint programmes in the STEM (Science, Technology, Engineering, and Mathematics) field as of July 2023, aiming to identify the potential interest in proposing a specific label for these areas of knowledge/education.

The analysis presented in this document is supported by the methodology shown in section 3.1. The analysis of the studied programmes has been included in section 3.2, based on the analysis of the alignment of the programmes with both mandatory and optional criteria proposed by the European Commission, as shown in section 3.3. The future of joint engineering degrees and the interest in designing a specific label have been analysed in sections 4.1 and 4.2.

5.1 Summary of the findings from the review and analysis

After analysing the reviewed joint programmes, it appears that the mandatory European Criteria are generally adhered to. However, a notable issue lies in the lack of clarity in publicly available information regarding the differentiation between the integration and compliance of the mandatory and optional European criteria. Regrettably, there is no explicit indication in any document or field regarding these distinctions in the publicly available information, and the mandatory European criteria are inconsistently described in the documents found. The importance of transparently documenting and communicating compliance with European criteria for Joint Programmes cannot be over-emphasised. Transparent and comprehensive compliance communication ensures transparency, fosters confidence, and enhances the quality and recognition of these programmes.

As the optional criteria proposed by the European Commission are not obligatory, gathering objective evidence to assess whether programmes align with these criteria may not lead to a comprehensive and dependable analysis of the current situation. The absence of standardised information presents challenges when evaluating the degree to which optional criteria are fulfilled. However, it is worth noting that the recognition of activities like summer schools and seminars is common, particularly at the Master's level. This recognition plays a pivotal role in attracting students and is frequently observed.

Nevertheless, it is essential to acknowledge that the optional criteria are designed to be sufficiently generic and adaptable for any programme in any field of knowledge to select or design activities and determine their alignment with these criteria.

However, they often lack specific minimum metrics or requirements and clear guidelines on how to justify compliance. This limitation significantly restricts visibility and transparency, not only for reviewers but also for students and society.

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5.2 Conclusions on the necessity and potential impact of a European label for technical, engineering, and science-oriented degrees

The future of joint degrees in engineering, technology, and sciences in Europe holds excellent promise. In an increasingly globalised world, where technology is advancing at an unprecedented rate, and international student recruitment is on the rise, the need for the mobility of highly skilled engineers within the EU is not a distant vision; it is the present reality. Joint degrees play a pivotal role in shaping a European workforce that is not only adaptable and mobile but also resilient, reflecting the core values of Europe.

In contrast to joint programmes, joint degrees represent a significant step towards deeper integration within the European higher education system, serving as a powerful instrument for European university alliances. This integration will unfold gradually, considering the existing admission mechanisms and the complex task of establishing uniform criteria and universally accepted standards for all participating HEIs.

Recognising the challenges HEIs face in providing complete degree programmes due to various factors, including policy constraints, economic considerations, or resource limitations, it is imperative to view joint degrees as an opportunity for shared and scalable resource utilisation. Moreover, they offer a pathway to establish harmonised European frameworks that transcend national borders. This is especially pertinent in the context of regulated professions, which are prevalent in engineering, and in advancing the promotion of apprenticeships at the European level. Introducing a European label for technical, engineering, and science-oriented degrees can revolutionise and enhance these programmes' quality, recognition, and global competitiveness, aligning them with the evolving needs of the modern world.

Establishing and implementing a European Degree Label for Joint Programmes in engineering, technology, and science presents a compelling opportunity for alliances, students, and society at large. To begin, it introduces a vital standardisation of information, simplifying the application process and enhancing the clarity of evaluations. Moreover, the label differentiates between mandatory and optional criteria, underscoring the uniqueness and innovation inherent in each Joint European Degree (JEDI). Additionally, it emphasises the specific value-added aspects of JEDIs, enabling easy comparisons across a myriad of degrees and programmes. Simultaneously, it facilitates the creation of a public database with shared criteria that can be selectively filtered, thereby empowering students to make well-informed choices about their educational paths.

Furthermore, it streamlines administrative procedures related to the accreditation and recognition of Joint Programmes, consequently promoting administrative efficiency. In the context of regulated professions such as engineering, the label

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possesses the potential to bolster recognition within the European landscape notably. Besides, it champions the cause of homogeneity and alignment in learning outcomes and competencies across programmes, ultimately elevating the quality of education. This label also enhances transparency in the evaluation and recognition of degrees, rendering the process more accessible and understandable to all stakeholders. Finally, it can improve labour market prospects for graduates bearing accredited European Joint Degrees, benefiting individuals and society.

5.3 Recommendations for future actions and considerations

Establishing and implementing a European Degree Label for Joint Programmes in engineering, technology, and science is a critical endeavor to enhance the quality and recognition of such programmes across Europe. To achieve this goal, it is imperative to meticulously follow a well-defined process that adheres to mandatory and optional European Criteria while maintaining transparency.

First and foremost, strict adherence to the mandatory criteria is essential to ensure no ambiguity in publicly available information about the already existing programmes. This step is crucial in preventing any lack of clarity that might undermine the credibility and trustworthiness of the labelled programmes. Therefore, a rigorous evaluation of the mandatory criteria is imperative to ascertain compliance.

Moreover, the optional criteria offer flexibility for programmes across various fields of knowledge to select or design activities that align with their specific objectives and areas of expertise. While the optional criteria are inherently generic, it is advisable to establish specific metrics or requirements tailored to each program's unique characteristics. This customisation ensures that the labelled programmes meet the generic criteria and excel in areas directly relevant to their mission and objectives.

Furthermore, the development process of the European Degree Label should prioritise transparency. Publicity throughout the entire process is essential to garner trust and confidence in the label's validity and reliability. The open communication of the label's criteria, evaluation procedures, and outcomes will provide stakeholders with a clear understanding of the rigorous standards to which these programmes are held.

Establishing a European Degree Label for Joint Programmes in engineering, technology, and science demands meticulous attention to compliance with mandatory and optional criteria, customisation to align with program-specific goals, and unwavering transparency to enhance the quality and recognition of these labelled programmes across Europe.

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5.4 Models for the implementation of the JEDI label in the upcoming stages of the project

From the work carried out by WP2, we can draw the following list of existing joint degrees that will be used for WP3 in the implementation of the JEDI label. For more comprehensive information about the final joint degrees list, please refer to Annex 1.

For more information about all the programs analyzed by the project members, please refer to Annex 2.

Name	Acronym	European Alliances
Executive Master in Digital Twins for Infrastructures and Cities	DigiTwins	EELISA
Joint European Master Degree in Efficient and Sustainable Energy, Transport and Mobility to Build the Smart Cities of the Future	UlysseusCitiesMD	ULYSSEUS
Master in Global Challenges for Sustainability		CHARM-EU
European Master Programme in Medical Technology and Healthcare Business	EMMaH	
Erasmus Mundus in Intelligent Field Robotic Systems	IFRoS	
Erasmus Mundus Joint Master Degree in Sustainable Transportation and Electrical Power Systems	STEPS	
Erasmus Mundus Master in Nanoscience and Nanotechnology	EMM-Nano+	
Joint Master Program in Space Science and Technology	SpaceMaster	
Master of Science in Geospatial Technologies	GeoTech	
Master Bio Marine Technology de l'Université européenne	EUCONEXUS	EUCONEXUS

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As well. as described in milestone number 3 corresponding to WP2, a first agreement for collaboration with an owner of a joint degree and not participating in the project has to be implemented within the project framework (Annex 3). As the initial contact with joint degree owners is being interspersed between WP2 and WP3, the contact process is being carried out at the time of submitting this deliverable.

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Annex 1: Proposal of Joint Degrees for WP3

Full official name of the Programme - acronym	1. Executive Master in Digital Twins for Infrastructures and Cities - DigiTwins
European Alliance Joint Program	EELISA
Level	Master
MSc, BSc, BE, etc.	MSc
Coordinator - Institution (country)	Universidad Politécnica de Madrid (Spain)
Coordinator Country	Spain
List of partners (with their respective countries)	École Nationale des Ponts et Chaussées (France), Budapesti Műszaki és Gazdaságtudományi Egyetem (Hungary), Istanbul Technical University (Turkiye)
Number of partners	France;Hungary;Turkey
Number of partners	3
Years	1
ECTS	60
URL	https://www.digitwin4ciue.eu/master-digital-twins/
Owner email	info@digitwin4ciue.eu
Area of Knowledge / Study Fields	Civil engineering
Type of JP	AJP
Quality Agency	
Delivered Degree type	Unique
Multiple or Joint Degree	Joint Degree
Regulated Profession	No
Fees	Independent
Admission process	Unique
Sudent Mobility	Blended mobility
Student Mobility Duration	9 months
Internships recognition	N/A
Apprenticeships recognition	N/A
Seminars recognition	Yes
Learning method	Blended
Labels	
Academic organisation	Month
Summer/winter schools	No
Hackatons	No
Lenguages classes	No
SDG competencies	No
Digital Skills	Yes
Volunteering recognition	No

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Full official name of the Programme - acronym	**2. Joint European Master Degree in Efficient and Sustainable Energy, Transport and Mobility to Build the Smart Cities of the Future - UlysseusCitiesMD**
European Alliance Joint Program	ULYSSEUS
Level	Master
MSc, BSc, BE, etc.	MSc
Coordinator - Institution (country)	University of Seville (SP)
Coordinator Country	Spain
List of partners (with their respective countries)	Université Côte d'Azur (UCA, France), Management Center Innsbruck (MCI, Austria), University of Genoa (UniGe, Italy), Technical University of Košice (TUKE, Slovakia), Haaga-Helia University of Applied Sciences (HH, Finland)
Number of partners	France;Austria;Italy;Slovakia;Finland
Number of partners	5
Years	2
ECTS	120
URL	https://ulysseus.eu/ The master has not a specific webpage yet
Owner email	vinternacional@us.es
Area of Knowledge / Study Fields	Energy, Mobility, Sustainable Cities
Type of JP	AJP
Quality Agency	Agency for Scientific and University Quality of Andalusia (ACCUA)
Delivered Degree type	Unique
Multiple or Joint Degree	Joint Degree
Regulated Profession	No
Fees	Independent
Admission process	Unique
Sudent Mobility	Physical mobility
Student Mobility Duration	18 months
Internships recognition	N/A
Apprenticeships recognition	N/A
Seminars recognition	N/A
Learning method	Blended
Labels	Joint programme accreditation via European Aproach
Academic organisation	Semester
Summer/winter schools	No
Hackatons	No
Lenguages classes	No
SDG competencies	No
Digital Skills	No
Volunteering recognition	No

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Full official name of the Programme - acronym	**3. Master in Global Challenges for Sustainability**
European Alliance Joint Program	CHARM-EU
Level	Master
MSc, BSc, BE, etc.	MSc
Coordinator - Institution (country)	Trinity College Dublin (Ireland)
Coordinator Country	Ireland
List of partners (with their respective countries)	University of Barcelona (SP) Trinity College Dublin (IR), Utrecht University (NL) Eötvös Loránd University (HU) University of Montpellier (FR)
Number of partners	Spain;Ireland;Netherlands;Hungary;France
Number of partners	5
Years	2
ECTS	90
URL	https://www.charm-eu.eu/masters/globalchallenges
Owner email	charm-euoffice@ub.edu
Area of Knowledge / Study Fields	Sustainability Engineering
Type of JP	AJP
Quality Agency	Accredited in Spain, Ireland, the Netherlands, Hungary and France
Delivered Degree type	Unique
Multiple or Joint Degree	Joint Degree
Regulated Profession	No
Fees	Dependent
Admission process	Unique
Sudent Mobility	Blended mobility
Student Mobility Duration	N/A
Internships recognition	No
Apprenticeships recognition	No
Seminars recognition	N/A
Learning method	Blended
Labels	Joint programme accreditation
Academic organisation	Semester
Summer/winter schools	No
Hackatons	No
Lenguages classes	No
SDG competencies	Yes
Digital Skills	No
Volunteering recognition	No

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Full official name of the Programme - acronym	**4. European Master Programme in Medical Technology and Healthcare Business - EMMaH**
European Alliance Joint Program	No
Level	Master
MSc, BSc, BE, etc.	MSc
Coordinator - Institution (country)	Hochschule für Angewandte Wissenschaften Hamburg (HAW) - Germany
Coordinator Country	Germany
List of partners (with their respective countries)	University of Lille 2 Health and Law (ILIS), France; Instituto Politécnico Do Porto – Escola Superior De Technologia Da Saúde Do Porto (IPP), Portugal; Taipei Medical University in Taiwan (TMU) has also been included in the consortium.
Number of partners	France;Portugal;Taiwan
Number of partners	3
Years	2
ECTS	120
URL	https://master-emmah.eu
Owner email	contact@master-emmah.eu
Area of Knowledge / Study Fields	Information Science and Engineering
Type of JP	EMP
Quality Agency	AQAS
Delivered Degree type	Unique
Multiple or Joint Degree	Joint Degree
Regulated Profession	
Fees	Dependent
Admission process	Unique
Sudent Mobility	Physical mobility
Student Mobility Duration	12 months
Internships recognition	N/A
Apprenticeships recognition	N/A
Seminars recognition	N/A
Learning method	Face-to-Face
Labels	Joint programme accreditation
Academic organisation	Semester
Summer/winter schools	No
Hackatons	No
Lenguages classes	No
SDG competencies	No
Digital Skills	No
Volunteering recognition	No

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Full official name of the Programme - acronym	**5. Erasmus Mundus in Intelligent Field Robotic Systems - IFRoS**
European Alliance Joint Program	No
Level	Master
MSc, BSc, BE, etc.	MsC
Coordinator - Institution (country)	Universitat de Girona (UdG, Spain)
Coordinator Country	Spain
List of partners (with their respective countries)	University of Zagreb (UNIZG, Croatia), Eötvös Loránd University (ELTE, Hungary)
Number of partners	Croatia;Hungary
Number of partners	2
Years	2
ECTS	120
URL	https://ifrosmaster.org/
Owner email	info@ifrosmaster.org
Area of Knowledge / Study Fields	Computer Science, Mathematics, Robotics, or Engineering-based (Biomedical, Electronics, Industrial, Mechanical and similar)
Type of JP	EMP
Quality Agency	
Delivered Degree type	Unique
Multiple or Joint Degree	Joint Degree
Regulated Profession	No
Fees	Independent
Admission process	Unique
Sudent Mobility	Physical mobility
Student Mobility Duration	12 months
Internships recognition	No
Apprenticeships recognition	No
Seminars recognition	No
Learning method	Face-to-Face
Labels	Erasmus Mundus
Academic organisation	Semester
Summer/winter schools	No
Hackatons	No
Lenguages classes	No
SDG competencies	No
Digital Skills	Yes
Volunteering recognition	No

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Full official name of the Programme - acronym	**6. Erasmus Mundus Joint Master Degree in Sustainable Transportation and Electrical Power Systems - STEPS**
European Alliance Joint Program	No
Level	Master
MSc, BSc, BE, etc.	MsC
Coordinator - Institution (country)	Universidad de Oviedo (Spain)
Coordinator Country	Spain
List of partners (with their respective countries)	University of Nottingham (UK), Politécnico de Coimbra (Portugal), Sapienza Università di Roma (Italy)
Number of partners	United Kingdom;Portugal;Italy
Number of partners	3
Years	2
ECTS	120
URL	https://www.emjmdsteps.eu/inicio
Owner email	garciajorge@uniovi.es
Area of Knowledge / Study Fields	Electrical Transportation, Power Systems
Type of JP	EMP
Quality Agency	
Delivered Degree type	Unique
Multiple or Joint Degree	Joint Degree
Regulated Profession	No
Fees	Dependent
Admission process	Differ from the partners
Sudent Mobility	Physical mobility
Student Mobility Duration	6 months
Internships recognition	Yes
Apprenticeships recognition	N/A
Seminars recognition	Yes
Learning method	Face-to-Face
Labels	Erasmus Mundus master degree
Academic organisation	Semester
Summer/winter schools	Yes - Summer/Winter Schools
Hackatons	No
Lenguages classes	Yes
SDG competencies	No
Digital Skills	Yes
Volunteering recognition	No

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Full official name of the Programme - acronym	**7. Erasmus Mundus Master in Nanoscience and Nanotechnology - EMM-Nano+**
European Alliance Joint Program	No
Level	Master
MSc, BSc, BE, etc.	MSc
Coordinator - Institution (country)	KU Leuven (Belgium)
Coordinator Country	Belgium
List of partners (with their respective countries)	Chalmers University of Technology (Sweden) TU Dresden (Germany) Université Grenoble Alpes (France) Universitat de Barcelona (Spain) Interuniversitair Micro-Electronica Centrum (Belgium)
Number of partners	Sweden;Germany;France;Spain;Belgium
Number of partners	5
Years	2
ECTS	120
URL	https://www.emm-nano.org/
Owner email	nano@kuleuven.be
Area of Knowledge / Study Fields	Nanoengineering and Nanotechnology
Type of JP	EMP
Quality Agency	Flemish Quality Assurance System (VLUHR QA)
Delivered Degree type	Unique
Multiple or Joint Degree	Joint Degree
Regulated Profession	No
Fees	Independent
Admission process	Unique
Sudent Mobility	Physical mobility
Student Mobility Duration	12 months
Internships recognition	No
Apprenticeships recognition	No
Seminars recognition	N/A
Learning method	Face-to-Face
Labels	Erasmus Mundus
Academic organisation	Semester
Summer/winter schools	Yes - Spring workshop
Hackatons	No
Lenguages classes	Yes
SDG competencies	N/A
Digital Skills	Yes
Volunteering recognition	No

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Full official name of the Programme - acronym	**8. Joint Master Program in Space Science and Technology - SpaceMaster**
European Alliance Joint Program	No
Level	Master
MSc, BSc, BE, etc.	MSc
Coordinator - Institution (country)	Luleå University of Technology (SE)
Coordinator Country	Sweden
List of partners (with their respective countries)	Aalto University School of Electrical Engineering (FI) Cranfield University (UK) Czech Technical University in Prague (CZ) Université Toulouse III - Paul Sabatier (FR)
Number of partners	Finland;United Kingdom;Czech Republic;France
Number of partners	4
Years	2
ECTS	120
URL	https://www.ltu.se/edu/program/TMRRA/TMRRA-Rymdvetenskap-och-rymdteknik-master-1.76948?l=en
Owner email	victoria.barabash@ltu.se
Area of Knowledge / Study Fields	Aerospace Engineering
Type of JP	EMP
Quality Agency	European Education and Culture Executive Agency (EACEA)
Delivered Degree type	Unique
Multiple or Joint Degree	Joint Degree
Regulated Profession	No
Fees	N/A
Admission process	N/A
Sudent Mobility	N/A
Student Mobility Duration	N/A
Internships recognition	N/A
Apprenticeships recognition	N/A
Seminars recognition	N/A
Learning method	N/A
Labels	
Academic organisation	N/A
Summer/winter schools	N/A
Hackatons	N/A
Lenguages classes	N/A
SDG competencies	N/A
Digital Skills	N/A
Volunteering recognition	N/A

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Full official name of the Programme - acronym	**9. Master of Science in Geospatial Technologies - GeoTech**
European Alliance Joint Program	No
Level	Master
MSc, BSc, BE, etc.	MsC
Coordinator - Institution (country)	Westfälische Wilhelms-Universität Münster (WWU) (Germany)
Coordinator Country	Germany
List of partners (with their respective countries)	Universidade Nova de Lisboa (Portugal), Universitat Jaume I de Castellon (Spain)
Number of partners	Portugal;Spain
Number of partners	2
Years	1,5
ECTS	90
URL	https://mastergeotech.info/
Owner email	broxc@uni-muenster.de
Area of Knowledge / Study Fields	Geospatial technologies
Type of JP	EMP
Quality Agency	
Delivered Degree type	Unique
Multiple or Joint Degree	Joint Degree
Regulated Profession	No
Fees	Independent
Admission process	Unique
Sudent Mobility	Physical mobility
Student Mobility Duration	6 months
Internships recognition	Yes - (one module can be replace by work in ongoing research projects)
Apprenticeships recognition	No
Seminars recognition	Yes - (one module can be replace by annual summer school)
Learning method	Face-to-Face
Labels	Programme accreditation in Germany
Academic organisation	Semester
Summer/winter schools	Yes - Summer/Winter Schools
Hackatons	No
Lenguages classes	No
SDG competencies	No
Digital Skills	Yes
Volunteering recognition	No

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Full official name of the Programme - acronym	**10. Master Bio Marine Technology de l'Université européenne EUCONEXUS**
European Alliance Joint Program	EUCONEXUS
Level	Master
MSc, BSc, BE, etc.	MSc
Coordinator - Institution (country)	Universidad Católica de Valencia San Vicente Mártir (SP)
Coordinator Country	Spain
List of partners (with their respective countries)	Agricultural University of Athens La Rochelle Université Universitatea Tehnica de Constructii Bucuresti Klaipedos Universitetas Sveuciliste u Zadru
Number of partners	Greece;France;Romania;Lithuania;Croatia
Number of partners	5
Years	2
ECTS	120
URL	https://www.eu-conexus.eu/en/marine-biotechnology/
Owner email	MBacademic.coordinator@eu-conexus.eu
Area of Knowledge / Study Fields	Marine Biotechnology
Type of JP	EMP
Quality Agency	HCERES
Delivered Degree type	Unique
Multiple or Joint Degree	Joint Degree
Regulated Profession	No
Fees	Independent
Admission process	Unique
Sudent Mobility	Physical mobility
Student Mobility Duration	24 months
Internships recognition	N/A
Apprenticeships recognition	N/A
Seminars recognition	N/A
Learning method	Blended
Labels	Joint programme accreditation via European Aproach
Academic organisation	Semester
Summer/winter schools	No
Hackatons	No
Lenguages classes	No
SDG competencies	No
Digital Skills	No
Volunteering recognition	No

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Annex 2: List of reviewed programmes

Full official name of the Programme - acronym	5.5 Analytical Instruments, Measurement and Sensor Technology - AIMS
European Alliance Joint Program	No
Level	Master
MSc, BSc, BE, etc.	MSc
Coordinator - Institution (country)	Hochschule für angewandte Wissenschaften Coburg (GE)
Coordinator Country	Germany
List of partners (with their respective countries)	University of Shanghai for Science and Technology (China) University of Siena (Italy)
Number of partners	China;Italy
Number of partners	2
Years	2
ECTS	120
URL	https://www.hs-coburg.de/studium/master/technik-informatik/analytical-instruments-measurement-and-sensor-technology.html
Owner email	aims@hs-coburg.de
Area of Knowledge / Study Fields	Mathematics, natural sciences and engineering sciences
Type of JP	Other
Quality Agency	ASIIN e.V. (ASIIN) (Germany)
Delivered Degree type	Unique
Multiple or Joint Degree	Joint Degree
Regulated Profession	No
Fees	Independent
Admission process	Unique
Sudent Mobility	Physical mobility
Student Mobility Duration	6 months
Internships recognition	Yes
Apprenticeships recognition	No
Seminars recognition	No
Learning method	Face-to-Face
Labels	EUR-ACE
Academic organisation	Semester
Summer/winter schools	No
Hackatons	No
Lenguages classes	Yes
SDG competencies	No
Digital Skills	N/A
Volunteering recognition	No

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Full official name of the Programme - acronym	5.6 Bachelor of European Studies - BAES
European Alliance Joint Program	UNA Europa
Level	Bachelor
MSc, BSc, BE, etc.	BA
Coordinator - Institution (country)	KU Leuven (Belgium)
Coordinator Country	Belgium
List of partners (with their respective countries)	Universidad Complutense de Madrid (Spain) Uniwersytet Jagiellónski w Krakowie (Poland) Alma Mater Studiorum – Università di Bologna, (Italy)
Number of partners	Spain;Poland;Italy
Number of partners	3
Years	3
ECTS	180
URL	http://www.jointbaes.eu/
Owner email	baes@kuleuven.be
Area of Knowledge / Study Fields	European studies
Type of JP	AJP
Quality Agency	NVAO
Delivered Degree type	Unique
Multiple or Joint Degree	Joint Degree
Regulated Profession	No
Fees	Independent
Admission process	Unique
Sudent Mobility	Physical mobility
Student Mobility Duration	12 months
Internships recognition	Yes
Apprenticeships recognition	No
Seminars recognition	No
Learning method	Face-to-Face
Labels	Programme accreditation in Belgium + European Approach
Academic organisation	Semester
Summer/winter schools	No
Hackatons	No
Lenguages classes	Yes
SDG competencies	N/A
Digital Skills	N/A
Volunteering recognition	No

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Full official name of the Programme - acronym	**5.7 BSc degree in Engineering - ENGINEERING BSC**
European Alliance Joint Program	No
Level	Bachelor
MSc, BSc, BE, etc.	BSc
Coordinator - Institution (country)	University of Salzburg (Austria)
Coordinator Country	Austria
List of partners (with their respective countries)	Technical University of Munich (Germany)
Number of partners	Germany
Number of partners	1
Years	3,5
ECTS	210
URL	https://www.plus.ac.at/studium/studienangebot/bachelor-und-diplomstudien/bachelors-degree-programmes/engineering/?lang=en
Owner email	simone.pokrant@plus.ac.at
Area of Knowledge / Study Fields	Mathematics, natural sciences and engineering sciences
Type of JP	Other
Quality Agency	N/A
Delivered Degree type	Unique
Multiple or Joint Degree	Joint Degree
Regulated Profession	No
Fees	Independent
Admission process	Unique
Sudent Mobility	Physical mobility
Student Mobility Duration	12 months
Internships recognition	Yes
Apprenticeships recognition	No
Seminars recognition	No
Learning method	Face-to-Face
Labels	
Academic organisation	Semester
Summer/winter schools	No
Hackatons	No
Lenguages classes	No
SDG competencies	No
Digital Skills	Yes
Volunteering recognition	No

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Full official name of the Programme - acronym	5.8 Copernicus Master in Digital Earth
European Alliance Joint Program	No
Level	Master
MSc, BSc, BE, etc.	MSc
Coordinator - Institution (country)	Paris-London University Salzburg, Austria
Coordinator Country	Austria
List of partners (with their respective countries)	University of South Brittany, France Palacky University Olomouc, Czech Republic
Number of partners	France;Czech Republic
Number of partners	2
Years	2
ECTS	120
URL	https://master-cde.eu
Owner email	msc-cde@plus.ac.at
Area of Knowledge / Study Fields	Environmental and geosciences
Type of JP	EMP
Quality Agency	The Agency for Quality Assurance and Accreditation Austria
Delivered Degree type	Double
Multiple or Joint Degree	Multiple Degree
Regulated Profession	No
Fees	N/A
Admission process	Unique
Sudent Mobility	Physical mobility
Student Mobility Duration	12 months
Internships recognition	N/A
Apprenticeships recognition	N/A
Seminars recognition	N/A
Learning method	Face-to-Face
Labels	Euroepan Approach for QA of Joint Programmes
Academic organisation	Semester
Summer/winter schools	Yes
Hackatons	No
Lenguages classes	No
SDG competencies	No
Digital Skills	No
Volunteering recognition	No

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Full official name of the Programme - acronym	5.9 Data Analytics and FinTech
European Alliance Joint Program	EMERGE
Level	Master
MSc, BSc, BE, etc.	MSc
Coordinator - Institution (country)	Neapolis University (CH)
Coordinator Country	Cyprus
List of partners (with their respective countries)	Hellenic Mediterranean University (GR)
Number of partners	Greece
Number of partners	1
Years	1,5
ECTS	90
URL	https://www.nup.ac.cy/msc-in-data-analytics-and-financial-technology-distance-learning/
Owner email	
Area of Knowledge / Study Fields	Data Science Finances
Type of JP	AJP
Quality Agency	CYQAA
Delivered Degree type	Unique
Multiple or Joint Degree	Joint Degree
Regulated Profession	No
Fees	N/A
Admission process	Unique
Sudent Mobility	Virtual mobility
Student Mobility Duration	N/A
Internships recognition	No
Apprenticeships recognition	No
Seminars recognition	No
Learning method	Online
Labels	Joint programme accreditation
Academic organisation	Semester
Summer/winter schools	No
Hackatons	No
Lenguages classes	No
SDG competencies	No
Digital Skills	Yes
Volunteering recognition	No

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Full official name of the Programme - acronym	5.10 Digital Technologies
European Alliance Joint Program	No
Level	Bachelor
MSc, BSc, BE, etc.	BSc
Coordinator - Institution (country)	Technische Universität Clausthal
Coordinator Country	Germany
List of partners (with their respective countries)	Ostfalia Hochschule für angewandte Wissenschaften
Number of partners	Germany
Number of partners	1
Years	3
ECTS	180
URL	https://www.digitecstudieren.de/
Owner email	hello@digitecstudieren.de
Area of Knowledge / Study Fields	Information Science and Engineering
Type of JP	Other
Quality Agency	ASIIN e.V. (ASIIN)
Delivered Degree type	Unique
Multiple or Joint Degree	Joint Degree
Regulated Profession	No
Fees	Independent
Admission process	Unique
Sudent Mobility	Physical mobility
Student Mobility Duration	2 days per week in each university
Internships recognition	No
Apprenticeships recognition	N/A
Seminars recognition	Yes
Learning method	Face-to-Face
Labels	Joint programme accreditation
Academic organisation	Semester
Summer/winter schools	No
Hackatons	No
Lenguages classes	No
SDG competencies	No
Digital Skills	Yes
Volunteering recognition	No

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Full official name of the Programme - acronym	5.11 Elektrotechnik (Automatisierungstechnik)
European Alliance Joint Program	No
Level	Bachelor
MSc, BSc, BE, etc.	BSc
Coordinator - Institution (country)	University of Shanghai for Science and Technology
Coordinator Country	China
List of partners (with their respective countries)	Hamburg University of Applied Sciences (Germany)
Number of partners	Germany
Number of partners	1
Years	4
ECTS	240
URL	http://sgc-de.usst.edu.cn/5231/list.htm
Owner email	chenqi@usst.edu.cn michael.roether@haw-hamburg.de
Area of Knowledge / Study Fields	Electrical Engineering
Type of JP	Other
Quality Agency	ASIIN e.V. (ASIIN)
Delivered Degree type	Double
Multiple or Joint Degree	Multiple Degree
Regulated Profession	Yes
Fees	Independent
Admission process	Unique
Sudent Mobility	Virtual mobility
Student Mobility Duration	N/A
Internships recognition	Yes
Apprenticeships recognition	N/A
Seminars recognition	N/A
Learning method	Blended
Labels	Joint programme accreditation
Academic organisation	Semester
Summer/winter schools	No
Hackatons	No
Lenguages classes	Yes
SDG competencies	No
Digital Skills	No
Volunteering recognition	No

Co-funded by the European Union

This project has received funding from the Erasmus+ Programme of the European Union under grant agreement No 101114604

Full official name of the Programme - acronym	**5.12 Erasmus Mundus Advanced Ship Design and Offshore Renewable Energies - EMSHIP+**
European Alliance Joint Program	No
Level	Master
MSc, BSc, BE, etc.	MsC
Coordinator - Institution (country)	Université de Liège (Belgium)
Coordinator Country	Belgium
List of partners (with their respective countries)	Ecole Centrale de Nantes (ECN) (France), University of Rostock (URO) (Germany), Universidad Politecnica de Madrid (UPM) (Spain)
Number of partners	France;Germany;Spain
Number of partners	3
Years	2
ECTS	120
URL	https://www.emship.eu/
Owner email	ph.rigo@ulg.ac.be, emship@uliege.be
Area of Knowledge / Study Fields	Naval architecture, ship and offshore design
Type of JP	EMP
Quality Agency	In Spain, Ministerio de Universidades vía Royal Decree additional disposition
Delivered Degree type	Double (three double degrees between Uliege and other EMSHIP university)
Multiple or Joint Degree	Multiple Degree
Regulated Profession	No
Fees	Independent
Admission process	Unique
Sudent Mobility	Physical mobility
Student Mobility Duration	12 months
Internships recognition	Yes
Apprenticeships recognition	N/A
Seminars recognition	No
Learning method	Face-to-Face
Labels	Erasmus Mundus master degree
Academic organisation	Semester
Summer/winter schools	No
Hackatons	No
Lenguages classes	Yes
SDG competencies	No
Digital Skills	N/A
Volunteering recognition	No

Co-funded by the European Union

This project has received funding from the Erasmus+ Programme of the European Union under grant agreement No 101114604

Full official name of the Programme - acronym	**5.13 Erasmus Mundus in Intelligent Field Robotic Systems - IFRoS**
European Alliance Joint Program	No
Level	Master
MSc, BSc, BE, etc.	MsC
Coordinator - Institution (country)	Universitat de Girona (UdG, Spain)
Coordinator Country	Spain
List of partners (with their respective countries)	University of Zagreb (UNIZG, Croatia), Eötvös Loránd University (ELTE, Hungary)
Number of partners	Croatia;Hungary
Number of partners	2
Years	2
ECTS	120
URL	https://ifrosmaster.org/
Owner email	info@ifrosmaster.org
Area of Knowledge / Study Fields	Computer Science, Mathematics, Robotics, or Engineering-based (Biomedical, Electronics, Industrial, Mechanical and similar)
Type of JP	EMP
Quality Agency	
Delivered Degree type	Unique
Multiple or Joint Degree	Joint Degree
Regulated Profession	No
Fees	Independent
Admission process	Unique
Sudent Mobility	Physical mobility
Student Mobility Duration	12 months
Internships recognition	No
Apprenticeships recognition	No
Seminars recognition	No
Learning method	Face-to-Face
Labels	Erasmus Mundus
Academic organisation	Semester
Summer/winter schools	No
Hackatons	No
Lenguages classes	No
SDG competencies	No
Digital Skills	Yes
Volunteering recognition	No

Co-funded by the European Union

This project has received funding from the Erasmus+ Programme of the European Union under grant agreement No 101114604

Full official name of the Programme - acronym	**5.14 Erasmus Mundus Joint Doctorate in Sustainable Energy Technologies and Strategies - SETS**
European Alliance Joint Program	No
Level	PhD
MSc, BSc, BE, etc.	PhD
Coordinator - Institution (country)	Universidad Pontificia Comillas (SP)
Coordinator Country	Spain
List of partners (with their respective countries)	Kungliga Tekniska Högskolan-The Royal Institute of Technology (SE) - Technische Universiteit Delft(NL) [Other collaborators: Johns Hopkins University (USA); Florence School of Regulation (IT); Paris Sud 11 (FR)]
Number of partners	Sweeden;Netherlands;USA;Italy;France
Number of partners	5
Years	4
ECTS	60 of Compulsory training
URL	https://www.comillas.edu/es/unidad-de-calidad-y-prospectiva/informacion-oficial-titulos/programas-doctorado/erasmus-mundus
Owner email	rector@upcomillas.es
Area of Knowledge / Study Fields	Energy Engineering
Type of JP	EMP
Quality Agency	European Education and Culture Executive Agency (EACEA)
Delivered Degree type	Unique
Multiple or Joint Degree	Joint Degree
Regulated Profession	No
Fees	Independent
Admission process	N/A
Sudent Mobility	N/A
Student Mobility Duration	N/A
Internships recognition	No
Apprenticeships recognition	Yes
Seminars recognition	N/A
Learning method	Face-to-Face
Labels	Erasmus Mundus
Academic organisation	Year
Summer/winter schools	Yes
Hackatons	No
Lenguages classes	No
SDG competencies	Yes
Digital Skills	No
Volunteering recognition	No

Co-funded by the European Union

This project has received funding from the Erasmus+ Programme of the European Union under grant agreement No 101114604

Full official name of the Programme - acronym	**5.15 Erasmus Mundus Joint Master - ChEMoinformatics+ - ChEMoinformaticsPlus**
European Alliance Joint Program	No
Level	Master
MSc, BSc, BE, etc.	MSc
Coordinator - Institution (country)	Université de Strasbourg (France)
Coordinator Country	France
List of partners (with their respective countries)	University of Paris (France), University NOVA of Lisbon (Portugal), University of Milan (Italy), University of Ljubljana (Slovenia), University of Bar Ilan (Israel), Taras Shevchenko National University of Kiyv (Ukraine).
Number of partners	France;Portugal;Italy;Slovenia;Israel;Ukraine
Number of partners	6
Years	2
ECTS	120
URL	https://masterchemoinfo.u-strasbg.fr/?lang=en
Owner email	g.marcou@unistra.fr
Area of Knowledge / Study Fields	Chemoinformatics
Type of JP	EMP
Quality Agency	European Education and Culture Executive Agency (EACEA)
Delivered Degree type	Double
Multiple or Joint Degree	Multiple Degree
Regulated Profession	No
Fees	Dependent
Admission process	Unique
Sudent Mobility	Physical mobility
Student Mobility Duration	18 months
Internships recognition	Yes
Apprenticeships recognition	No
Seminars recognition	No
Learning method	Face-to-Face
Labels	Erasmus Mundus master degree
Academic organisation	semester
Summer/winter schools	Yes - Summer/Winter Schools
Hackatons	No
Lenguages classes	Yes
SDG competencies	Yes
Digital Skills	No
Volunteering recognition	No

Co-funded by the European Union

This project has received funding from the Erasmus+ Programme of the European Union under grant agreement No 101114604

Full official name of the Programme - acronym	**5.16 Erasmus Mundus Joint Master Degree in Sustainable Transportation and Electrical Power Systems - STEPS**
European Alliance Joint Program	No
Level	Master
MSc, BSc, BE, etc.	MsC
Coordinator - Institution (country)	Universidad de Oviedo (Spain)
Coordinator Country	Spain
List of partners (with their respective countries)	University of Nottingham (UK), Politécnico de Coimbra (Portugal), Sapienza Università di Roma (Italy)
Number of partners	United Kingdom;Portugal;Italy
Number of partners	3
Years	2
ECTS	120
URL	https://www.emjmdsteps.eu/inicio
Owner email	garciajorge@uniovi.es
Area of Knowledge / Study Fields	Electrical Transportation, Power Systems
Type of JP	EMP
Quality Agency	
Delivered Degree type	Unique
Multiple or Joint Degree	Joint Degree
Regulated Profession	No
Fees	Dependent
Admission process	Differ from the partners
Sudent Mobility	Physical mobility
Student Mobility Duration	6 months
Internships recognition	Yes
Apprenticeships recognition	N/A
Seminars recognition	Yes
Learning method	Face-to-Face
Labels	Erasmus Mundus master degree
Academic organisation	Semester
Summer/winter schools	Yes - Summer/Winter Schools
Hackatons	No
Lenguages classes	Yes
SDG competencies	No
Digital Skills	Yes
Volunteering recognition	No

Co-funded by the European Union

This project has received funding from the Erasmus+ Programme of the European Union under grant agreement No 101114604

Full official name of the Programme - acronym	**5.17 Erasmus Mundus Joint Master Degree Photonics for Security Reliability and Safety - PSRS**
European Alliance Joint Program	No
Level	Master
MSc, BSc, BE, etc.	MSc
Coordinator - Institution (country)	Université Jean Monnet - St Etienne
Coordinator Country	France
List of partners (with their respective countries)	The University Paris-Est Créteil (UPEC), France, University of Eastern Finland (UEF) in Joensuu, Politecnico di Torino (PoliTo) in Italy
Number of partners	France;Finland;Italy
Number of partners	3
Years	2
ECTS	120
URL	https://www.master-photonics4security.eu/
Owner email	nathalie.destouches@univ-st-etienne.fr
Area of Knowledge / Study Fields	Photonics, nanotechnologies, machine learning
Type of JP	EMP
Quality Agency	European Education and Culture Executive Agency (EACEA)
Delivered Degree type	Multiple
Multiple or Joint Degree	Multiple Degree
Regulated Profession	No
Fees	Independent
Admission process	Unique
Sudent Mobility	Physical mobility
Student Mobility Duration	18 months
Internships recognition	Yes
Apprenticeships recognition	No
Seminars recognition	No
Learning method	Face-to-Face
Labels	Erasmus Mundus master degree
Academic organisation	semester
Summer/winter schools	Yes - Summer/Winter Schools
Hackatons	No
Lenguages classes	Yes
SDG competencies	Yes
Digital Skills	Yes
Volunteering recognition	No

Co-funded by the European Union

This project has received funding from the Erasmus+ Programme of the European Union under grant agreement No 101114604

Full official name of the Programme - acronym	**5.18 Erasmus Mundus Joint Master in Cybersecurity - CYBERUS**
European Alliance Joint Program	No
Level	Master
MSc, BSc, BE, etc.	MSc
Coordinator - Institution (country)	Université de Bretagne sud
Coordinator Country	France
List of partners (with their respective countries)	Université du Luxembourg (UL), Luxembourg and Université Libre de Bruxelles (ULB), Belgique
Number of partners	Luxembourg;Belgium
Number of partners	2
Years	2
ECTS	120
URL	https://master-cyberus.eu/
Owner email	
Area of Knowledge / Study Fields	Cybersecurity
Type of JP	EMP
Quality Agency	European Education and Culture Executive Agency (EACEA)
Delivered Degree type	Double
Multiple or Joint Degree	Multiple Degree
Regulated Profession	No
Fees	Independent
Admission process	Unique
Sudent Mobility	Physical mobility
Student Mobility Duration	6 months
Internships recognition	Yes
Apprenticeships recognition	No
Seminars recognition	No
Learning method	Face-to-Face
Labels	Erasmus Mundus master degree
Academic organisation	semester
Summer/winter schools	Yes
Hackatons	No
Lenguages classes	Yes
SDG competencies	No
Digital Skills	NO
Volunteering recognition	No

Co-funded by the European Union

This project has received funding from the Erasmus+ Programme of the European Union under grant agreement No 101114604

Full official name of the Programme - acronym	**5.19 Erasmus Mundus Master in Nanoscience and Nanotechnology - EMM-Nano+**
European Alliance Joint Program	No
Level	Master
MSc, BSc, BE, etc.	MSc
Coordinator - Institution (country)	KU Leuven (Belgium)
Coordinator Country	Belgium
List of partners (with their respective countries)	Chalmers University of Technology (Sweden) TU Dresden (Germany) Université Grenoble Alpes (France) Universitat de Barcelona (Spain) Interuniversitair Micro-Electronica Centrum (Belgium)
Number of partners	Sweden;Germany;France;Spain;Belgium
Number of partners	5
Years	2
ECTS	120
URL	https://www.emm-nano.org/
Owner email	nano@kuleuven.be
Area of Knowledge / Study Fields	Nanoengineering and Nanotechnology
Type of JP	EMP
Quality Agency	Flemish Quality Assurance System (VLUHR QA)
Delivered Degree type	Unique
Multiple or Joint Degree	Joint Degree
Regulated Profession	No
Fees	Independent
Admission process	Unique
Sudent Mobility	Physical mobility
Student Mobility Duration	12 months
Internships recognition	No
Apprenticeships recognition	No
Seminars recognition	N/A
Learning method	Face-to-Face
Labels	Erasmus Mundus
Academic organisation	Semester
Summer/winter schools	Yes - Spring workshop
Hackatons	No
Lenguages classes	Yes
SDG competencies	N/A
Digital Skills	Yes
Volunteering recognition	No

Co-funded by the European Union

This project has received funding from the Erasmus+ Programme of the European Union under grant agreement No 101114604

Full official name of the Programme - acronym	**5.20 Erasmus Mundus Master's Programme in Industrial Ecology - MIND**
European Alliance Joint Program	No
Level	Master
MSc, BSc, BE, etc.	MSc
Coordinator - Institution (country)	TU Graz (Austria)
Coordinator Country	Austria
List of partners (with their respective countries)	Leiden Univ, TU Delft (The Netherlands), Waseda Univ (Japan), Asian Inst of Technology (Thailand), Rochester Inst of Technology (USA),
Number of partners	Netherlands;Netherlands;Japan;Thailand;USA
Number of partners	5
Years	2
ECTS	120
URL	https://static.uni-graz.at/fileadmin/urbi-institute/Systemwissenschaften/documents/international_joint_master.pdf
Owner email	hthomas.Brudermann@uni-graz.at
Area of Knowledge / Study Fields	Environmental Engineering
Type of JP	EMP
Quality Agency	Agency for Quality Assurance and Accreditation Austria
Delivered Degree type	Unique
Multiple or Joint Degree	Joint Degree
Regulated Profession	No
Fees	Independent
Admission process	Unique
Sudent Mobility	Physical mobility
Student Mobility Duration	12 months
Internships recognition	No
Apprenticeships recognition	No
Seminars recognition	N/A
Learning method	Face-to-Face
Labels	Erasmus Mundus
Academic organisation	Semester
Summer/winter schools	Yes
Hackatons	No
Lenguages classes	Yes
SDG competencies	Yes
Digital Skills	Yes
Volunteering recognition	No

Co-funded by the European Union

This project has received funding from the Erasmus+ Programme of the European Union under grant agreement No 101114604

Full official name of the Programme - acronym	**5.21 European Master in Biological and Chemical Engineering for a Sustainable Bioeconomy - BIOCEB**
European Alliance Joint Program	No
Level	Master
MSc, BSc, BE, etc.	MSc
Coordinator - Institution (country)	Paris Institute of Technology for Life, Food and Environmental Sciences (AgroParisTech) (FR)
Coordinator Country	France
List of partners (with their respective countries)	Aalto University (FI) Tallinn University of Technology (TalTech) (EE) Université de Liège (ULiège) (BE) Université Reims-Champagne-Ardennes (URCA)
Number of partners	Finland;Estonia;Belgium;France
Number of partners	4
Years	2
ECTS	120
URL	https://www.bioceb.eu/What-is-Bioceb.html
Owner email	stephanie.baumberger@agroparistech.fr
Area of Knowledge / Study Fields	Biological and Chemical Engineering
Type of JP	EMP
Quality Agency	European Education and Culture Executive Agency (EACEA)
Delivered Degree type	Multiple
Multiple or Joint Degree	Multiple Degree
Regulated Profession	No
Fees	Independent
Admission process	Unique
Sudent Mobility	Physical mobility
Student Mobility Duration	N/A
Internships recognition	Yes
Apprenticeships recognition	No
Seminars recognition	No
Learning method	Face-to-Face
Labels	Erasmus Mundus
Academic organisation	Semester
Summer/winter schools	no
Hackatons	no
Lenguages classes	Yes
SDG competencies	Yes
Digital Skills	Yes
Volunteering recognition	No

Co-funded by the European Union

This project has received funding from the Erasmus+ Programme of the European Union under grant agreement No 101114604

Full official name of the Programme - acronym	**5.22 European master in Biorefinery - BIOREF EMJMD**
European Alliance Joint Program	No
Level	Master
MSc, BSc, BE, etc.	MSc
Coordinator - Institution (country)	University of Lille, France
Coordinator Country	France
List of partners (with their respective countries)	University of Technology of Troyes, France, Cracow University of Technology, Poland University of Bari Aldo Moro, Italy
Number of partners	France;Poland;Italy
Number of partners	3
Years	2
ECTS	120
URL	https://master-bioref.eu/
Owner email	mickael.capron@univ-lille.fr
Area of Knowledge / Study Fields	Biorefinery
Type of JP	EMP
Quality Agency	European Education and Culture Executive Agency (EACEA)
Delivered Degree type	Multiple
Multiple or Joint Degree	Multiple Degree
Regulated Profession	No
Fees	Independent
Admission process	Unique
Sudent Mobility	Physical mobility
Student Mobility Duration	24 months
Internships recognition	Yes
Apprenticeships recognition	No
Seminars recognition	No
Learning method	Face-to-Face
Labels	Erasmus Mundus
Academic organisation	Semester
Summer/winter schools	Yes
Hackatons	No
Lenguages classes	Yes
SDG competencies	Yes
Digital Skills	Yes
Volunteering recognition	No

Co-funded by the European Union

This project has received funding from the Erasmus+ Programme of the European Union under grant agreement No 101114604

Full official name of the Programme - acronym	**5.23 European Master of Science in Viticulture and Enology (Vinifera EuroMaster) - VINIFERA EUROMASTER**
European Alliance Joint Program	No
Level	Master
MSc, BSc, BE, etc.	MsC
Coordinator - Institution (country)	Montpellier SupAgro (France)
Coordinator Country	France
List of partners (with their respective countries)	École nationale supérieure des sciences agronomiques de Bordeaux Aquitaine (France), Universidad Politécnica de Madrid (Spain), Hochschule Geisenheim University (FH) (Germany), University of Lisbon (Portugal), University of Turin (Italy), University of Udine (Italy)
Number of partners	France;Spain;Germany;Portugal;Italy;Italy
Number of partners	6
Years	2
ECTS	120
URL	https://www.vinifera-euromaster.eu/
Owner email	anne.pellegrino@supagro.fr
Area of Knowledge / Study Fields	Enology, wine biology, economy, viticulture, project management
Type of JP	Other
Quality Agency	ASIIN e.V. (ASIIN) (Germany) , By UFA as Franco-German Double degree , By A3ES (Portugal)
Delivered Degree type	Unique
Multiple or Joint Degree	Joint Degree
Regulated Profession	No
Fees	Independent
Admission process	Unique
Sudent Mobility	Physical mobility
Student Mobility Duration	12 months
Internships recognition	Yes
Apprenticeships recognition	No
Seminars recognition	Yes - (as part of the Viticulture course)
Learning method	Face-to-Face
Labels	Euromaster
Academic organisation	Month
Summer/winter schools	No
Hackatons	No
Lenguages classes	Yes
SDG competencies	No
Digital Skills	No
Volunteering recognition	No

Co-funded by the European Union

This project has received funding from the Erasmus+ Programme of the European Union under grant agreement No 101114604

Full official name of the Programme - acronym	**5.24 European Master Programme in Medical Technology and Healthcare Business - EMMaH**
European Alliance Joint Program	No
Level	Master
MSc, BSc, BE, etc.	MSc
Coordinator - Institution (country)	Hochschule für Angewandte Wissenschaften Hamburg (HAW) - Germany
Coordinator Country	Germany
List of partners (with their respective countries)	University of Lille 2 Health and Law (ILIS), France; Instituto Politécnico Do Porto – Escola Superior De Technologia Da Saúde Do Porto (IPP), Portugal; Taipei Medical University in Taiwan (TMU) has also been included in the consortium.
Number of partners	France;Portugal;Taiwan
Number of partners	3
Years	2
ECTS	120
URL	https://master-emmah.eu
Owner email	contact@master-emmah.eu
Area of Knowledge / Study Fields	Information Science and Engineering
Type of JP	EMP
Quality Agency	AQAS
Delivered Degree type	Unique
Multiple or Joint Degree	Joint Degree
Regulated Profession	
Fees	Dependent
Admission process	Unique
Sudent Mobility	Physical mobility
Student Mobility Duration	12 months
Internships recognition	N/A
Apprenticeships recognition	N/A
Seminars recognition	N/A
Learning method	Face-to-Face
Labels	Joint programme accreditation
Academic organisation	Semester
Summer/winter schools	No
Hackatons	No
Lenguages classes	No
SDG competencies	No
Digital Skills	No
Volunteering recognition	No

Co-funded by the European Union

This project has received funding from the Erasmus+ Programme of the European Union under grant agreement No 101114604

Full official name of the Programme - acronym	**5.25 Executive Master in Digital Twins for Infrastructures and Cities - DigiTwins**
European Alliance Joint Program	EELISA
Level	Master
MSc, BSc, BE, etc.	MSc
Coordinator - Institution (country)	Universidad Politécnica de Madrid (Spain)
Coordinator Country	Spain
List of partners (with their respective countries)	École Nationale des Ponts et Chaussées (France), Budapesti Műszaki és Gazdaságtudományi Egyetem (Hungary), Istanbul Technical University (Turkiye)
Number of partners	France;Hungary;Turkey
Number of partners	3
Years	1
ECTS	60
URL	https://www.digitwin4ciue.eu/master-digital-twins/
Owner email	info@digitwin4ciue.eu
Area of Knowledge / Study Fields	Civil engineering
Type of JP	AJP
Quality Agency	
Delivered Degree type	Unique
Multiple or Joint Degree	Joint Degree
Regulated Profession	No
Fees	Independent
Admission process	Unique
Sudent Mobility	Blended mobility
Student Mobility Duration	9 months
Internships recognition	N/A
Apprenticeships recognition	N/A
Seminars recognition	Yes
Learning method	Blended
Labels	
Academic organisation	Month
Summer/winter schools	No
Hackatons	No
Lenguages classes	No
SDG competencies	No
Digital Skills	Yes
Volunteering recognition	No

Co-funded by the European Union

This project has received funding from the Erasmus+ Programme of the European Union under grant agreement No 101114604

Full official name of the Programme - acronym	**5.26 ICT Innovation -**
European Alliance Joint Program	No
Level	Master
MSc, BSc, BE, etc.	MSc
Coordinator - Institution (country)	Technische Universität Berlin (DE)
Coordinator Country	Germany
List of partners (with their respective countries)	Aalto University, Association Sorbonne Université, Budapest University of Technology and Economics, Comue Université Côte d'Azur, Comue Université Paris-Saclay, Eindhoven University of Technology, Eötvös Loránd University, KTH Royal Institute of Technology, Politecnico di Milano, Tallinn University of Technology, Technical University of Berlin, Technical University of Madrid (SP), University of Nice Sophia Antipolis, University of Rennes 1, University of Trento, University of Turku, University of Twente
Number of partners	Finland;France;Hungary;France;France;Netherlands;Netherlands;Denmark;Italy;Estonia;Germany;Spain;France;France;Italy;Finland;Netherlands
Number of partners	17
Years	2
ECTS	120
URL	https://www.tu.berlin/en/studying/study-programs/all-programs-offered/study-course/ict-innovation-m-sc
Owner email	
Area of Knowledge / Study Fields	computer science, computer engineering, electrical engineering
Type of JP	EJP
Quality Agency	ASIIN e.V. (ASIIN)
Delivered Degree type	Double
Multiple or Joint Degree	Multiple Degree
Regulated Profession	No
Fees	Independent
Admission process	Unique
Sudent Mobility	Physical mobility
Student Mobility Duration	12 months
Internships recognition	No
Apprenticeships recognition	No
Seminars recognition	No
Learning method	Face-to-Face
Labels	Euro-Inf review
Academic organisation	Semester
Summer/winter schools	No
Hackatons	No
Lenguages classes	No
SDG competencies	No
Digital Skills	No
Volunteering recognition	No

Co-funded by the European Union

This project has received funding from the Erasmus+ Programme of the European Union under grant agreement No 101114604

Full official name of the Programme - acronym	5.27 Informationstechnologie - Joint Degree
European Alliance Joint Program	No
Level	Bachelor
MSc, BSc, BE, etc.	BSc
Coordinator - Institution (country)	Carinthia University of Applied Sciences (Austria)
Coordinator Country	Austria
List of partners (with their respective countries)	University of Applied Sciences Technikum Vienna
Number of partners	Austria
Number of partners	1
Years	3
ECTS	180
URL	https://www.fh-kaernten.at/en/studium/engineering-it/bachelor/joint-degree
Owner email	t.klinger@fh-kaernten.at
Area of Knowledge / Study Fields	Information Science and Engineering
Type of JP	Other
Quality Agency	The Agency for Quality Assurance and Accreditation Austria
Delivered Degree type	Unique
Multiple or Joint Degree	Joint Degree
Regulated Profession	No
Fees	Independent
Admission process	Unique
Sudent Mobility	Physical mobility
Student Mobility Duration	24 months
Internships recognition	Yes
Apprenticeships recognition	N/A
Seminars recognition	N/A
Learning method	Face-to-Face
Labels	Joint programme accreditation
Academic organisation	Semester
Summer/winter schools	No
Hackatons	No
Lenguages classes	No
SDG competencies	No
Digital Skills	Yes
Volunteering recognition	No

Co-funded by the European Union

This project has received funding from the Erasmus+ Programme of the European Union under grant agreement No 101114604

Full official name of the Programme - acronym	**5.28 Innovated Sustainable Energy Engineering - ISEE**
European Alliance Joint Program	No
Level	Master
MSc, BSc, BE, etc.	MSc
Coordinator - Institution (country)	Aalto University (Finland)
Coordinator Country	Finland
List of partners (with their respective countries)	Royal Institut of Technology (Sweden), Technical University of Denmark (Denmark), Chalmers University of Technology (Sweden)
Number of partners	Sweden;Denmark;Sweden
Number of partners	3
Years	2
ECTS	120
URL	http://www.nordicfivetech.org/studies
Owner email	borje.helenius@aalto.fi
Area of Knowledge / Study Fields	Innovated Sustainable Energy Engineering
Type of JP	Other
Quality Agency	Finnish Education Evaluation Centre (FINEEC)
Delivered Degree type	Double
Multiple or Joint Degree	Multiple Degree
Regulated Profession	No
Fees	Independent
Admission process	Unique
Sudent Mobility	Physical mobility
Student Mobility Duration	12 months
Internships recognition	No
Apprenticeships recognition	No
Seminars recognition	N/A
Learning method	Face-to-Face
Labels	Nordic Five Tech
Academic organisation	semester
Summer/winter schools	No
Hackatons	No
Lenguages classes	Yes
SDG competencies	Yes
Digital Skills	Yes
Volunteering recognition	No

Co-funded by the European Union

This project has received funding from the Erasmus+ Programme of the European Union under grant agreement No 101114604

Full official name of the Programme - acronym	**5.29 International Master in Materials Science and Engineering - AMASE**
European Alliance Joint Program	No
Level	Master
MSc, BSc, BE, etc.	MsC
Coordinator - Institution (country)	European School of Materials, Saarland University (Germany)
Coordinator Country	Germany
List of partners (with their respective countries)	Luleå University of Technology (Sweden), Universitat Politècnica de Catalunya (Spain), Université de Lorraine (France), Montanuniversitaet Leoben (Austria), Università degli Studi di Padova (Italy)
Number of partners	Sweden;Spain;France;Austria;Italy
Number of partners	5
Years	2
ECTS	120
URL	https://www.eusmat.net/international-studies/master/amase/
Owner email	f.soldera@matsci.uni-sb.de
Area of Knowledge / Study Fields	Materials science, materials engineering
Type of JP	EMP
Quality Agency	
Delivered Degree type	Double
Multiple or Joint Degree	Multiple Degree
Regulated Profession	No
Fees	Independent
Admission process	Unique
Sudent Mobility	Physical mobility
Student Mobility Duration	12 months
Internships recognition	Yes
Apprenticeships recognition	No
Seminars recognition	Yes
Learning method	Face-to-Face
Labels	Erasmus Mundus
Academic organisation	Semester
Summer/winter schools	Yes - Professional Summer School
Hackatons	No
Lenguages classes	Yes
SDG competencies	No
Digital Skills	Yes
Volunteering recognition	No

Co-funded by the European Union

This project has received funding from the Erasmus+ Programme of the European Union under grant agreement No 101114604

Full official name of the Programme - acronym	**5.30 Joint European Master Degree in Efficient and Sustainable Energy, Transport and Mobility to Build the Smart Cities of the Future - UlysseusCitiesMD**
European Alliance Joint Program	ULYSSEUS
Level	Master
MSc, BSc, BE, etc.	MSc
Coordinator - Institution (country)	University of Seville (SP)
Coordinator Country	Spain
List of partners (with their respective countries)	Université Côte d'Azur (UCA, France), Management Center Innsbruck (MCI, Austria), University of Genoa (UniGe, Italy), Technical University of Košice (TUKE, Slovakia), Haaga-Helia University of Applied Sciences (HH, Finland)
Number of partners	France;Austria;Italy;Slovakia;Finland
Number of partners	5
Years	2
ECTS	120
URL	https://ulysseus.eu/ The master has not a specific webpage yet
Owner email	vinternacional@us.es
Area of Knowledge / Study Fields	Energy, Mobility, Sustainable Cities
Type of JP	AJP
Quality Agency	Agency for Scientific and University Quality of Andalusia (ACCUA)
Delivered Degree type	Unique
Multiple or Joint Degree	Joint Degree
Regulated Profession	No
Fees	Independent
Admission process	Unique
Sudent Mobility	Physical mobility
Student Mobility Duration	18 months
Internships recognition	N/A
Apprenticeships recognition	N/A
Seminars recognition	N/A
Learning method	Blended
Labels	Joint programme accreditation via European Aproach
Academic organisation	Semester
Summer/winter schools	No
Hackatons	No
Lenguages classes	No
SDG competencies	No
Digital Skills	No
Volunteering recognition	No

Co-funded by the European Union

This project has received funding from the Erasmus+ Programme of the European Union under grant agreement No 101114604

Full official name of the Programme - acronym	**5.31 Joint Master Program in Space Science and Technology - SpaceMaster**
European Alliance Joint Program	No
Level	Master
MSc, BSc, BE, etc.	MSc
Coordinator - Institution (country)	Luleå University of Technology (SE)
Coordinator Country	Sweden
List of partners (with their respective countries)	Aalto University School of Electrical Engineering (FI) Cranfield University (UK) Czech Technical University in Prague (CZ) Université Toulouse III - Paul Sabatier (FR)
Number of partners	Finland;United Kingdom;Czech Republic;France
Number of partners	4
Years	2
ECTS	120
URL	https://www.ltu.se/edu/program/TMRRA/TMRRA-Rymdvetenskap-och-rymdteknik-master-1.76948?l=en
Owner email	victoria.barabash@ltu.se
Area of Knowledge / Study Fields	Aerospace Engineering
Type of JP	EMP
Quality Agency	European Education and Culture Executive Agency (EACEA)
Delivered Degree type	Unique
Multiple or Joint Degree	Joint Degree
Regulated Profession	No
Fees	N/A
Admission process	N/A
Sudent Mobility	N/A
Student Mobility Duration	N/A
Internships recognition	N/A
Apprenticeships recognition	N/A
Seminars recognition	N/A
Learning method	N/A
Labels	
Academic organisation	N/A
Summer/winter schools	N/A
Hackatons	N/A
Lenguages classes	N/A
SDG competencies	N/A
Digital Skills	N/A
Volunteering recognition	N/A

Co-funded by the European Union

This project has received funding from the Erasmus+ Programme of the European Union under grant agreement No 101114604

Full official name of the Programme - acronym	**5.32 Master Bio Marine Technology de l'Université européenne EUCONEXUS**
European Alliance Joint Program	EUCONEXUS
Level	Master
MSc, BSc, BE, etc.	MSc
Coordinator - Institution (country)	Universidad Católica de Valencia San Vicente Mártir (SP)
Coordinator Country	Spain
List of partners (with their respective countries)	Agricultural University of Athens La Rochelle Université Universitatea Tehnica de Constructii Bucuresti Klaipedos Universitetas Sveuciliste u Zadru
Number of partners	Greece;France;Romania;Lithuania;Croatia
Number of partners	5
Years	2
ECTS	120
URL	https://www.eu-conexus.eu/en/marine-biotechnology/
Owner email	MBacademic.coordinator@eu-conexus.eu
Area of Knowledge / Study Fields	Marine Biotechnology
Type of JP	EMP
Quality Agency	HCERES
Delivered Degree type	Unique
Multiple or Joint Degree	Joint Degree
Regulated Profession	No
Fees	Independent
Admission process	Unique
Sudent Mobility	Physical mobility
Student Mobility Duration	24 months
Internships recognition	N/A
Apprenticeships recognition	N/A
Seminars recognition	N/A
Learning method	Blended
Labels	Joint programme accreditation via European Aproach
Academic organisation	Semester
Summer/winter schools	No
Hackatons	No
Lenguages classes	No
SDG competencies	No
Digital Skills	No
Volunteering recognition	No

Co-funded by the European Union

This project has received funding from the Erasmus+ Programme of the European Union under grant agreement No 101114604

Full official name of the Programme - acronym	5.33 Master in Global Challenges for Sustainability
European Alliance Joint Program	CHARM-EU
Level	Master
MSc, BSc, BE, etc.	MSc
Coordinator - Institution (country)	Trinity College Dublin (Ireland)
Coordinator Country	Ireland
List of partners (with their respective countries)	University of Barcelona (SP) Trinity College Dublin (IR), Utrecht University (NL) Eötvös Loránd University (HU) University of Montpellier (FR)
Number of partners	Spain;Ireland;Netherlands;Hungary;France
Number of partners	5
Years	2
ECTS	90
URL	https://www.charm-eu.eu/masters/globalchallenges
Owner email	charm-euoffice@ub.edu
Area of Knowledge / Study Fields	Sustainability Engineering
Type of JP	AJP
Quality Agency	Accredited in Spain, Ireland, the Netherlands, Hungary and France
Delivered Degree type	Unique
Multiple or Joint Degree	Joint Degree
Regulated Profession	No
Fees	Dependent
Admission process	Unique
Sudent Mobility	Blended mobility
Student Mobility Duration	N/A
Internships recognition	No
Apprenticeships recognition	No
Seminars recognition	N/A
Learning method	Blended
Labels	Joint programme accreditation
Academic organisation	Semester
Summer/winter schools	No
Hackatons	No
Lenguages classes	No
SDG competencies	Yes
Digital Skills	No
Volunteering recognition	No

Co-funded by the European Union

This project has received funding from the Erasmus+ Programme of the European Union under grant agreement No 101114604

Full official name of the Programme - acronym	5.34 Master Internacional en Empresa y Políticas Públicas - MIEPP
European Alliance Joint Program	EELISA
Level	Master
MSc, BSc, BE, etc.	MSc
Coordinator - Institution (country)	UPM
Coordinator Country	Spain
List of partners (with their respective countries)	ENPC
Number of partners	France
Number of partners	1
Years	1
ECTS	65
URL	http://miepp.eu/
Owner email	carmen.benavente@upm.es
Area of Knowledge / Study Fields	Business sciences
Type of JP	AJP
Quality Agency	
Delivered Degree type	Unique
Multiple or Joint Degree	Joint Degree
Regulated Profession	No
Fees	Independent
Admission process	Unique
Sudent Mobility	N/A
Student Mobility Duration	N/A
Internships recognition	N/A
Apprenticeships recognition	N/A
Seminars recognition	N/A
Learning method	Blended
Labels	N/A
Academic organisation	Month
Summer/winter schools	No
Hackatons	No
Lenguages classes	No
SDG competencies	No
Digital Skills	No
Volunteering recognition	No

Co-funded by the European Union

This project has received funding from the Erasmus+ Programme of the European Union under grant agreement No 101114604

Full official name of the Programme - acronym	**5.35 Master LAGLOBE - Latin American and Europe in a Global World - LAGLOBE**
European Alliance Joint Program	No
Level	Master
MSc, BSc, BE, etc.	MSc
Coordinator - Institution (country)	Université Paris 3 Sorbonne Nouvelle
Coordinator Country	France
List of partners (with their respective countries)	Universidad de Salamanca, Spain; Stockholm University, Sweden
Number of partners	Spain;Sweden
Number of partners	2
Years	2
ECTS	120
URL	https://www.masterlaglobe.eu/fr/accueil/
Owner email	laglobe@sorbonne-nouvelle.fr
Area of Knowledge / Study Fields	Latin American Studies
Type of JP	EMP
Quality Agency	HCERES
Delivered Degree type	Multiple
Multiple or Joint Degree	Multiple Degree
Regulated Profession	No
Fees	Dependent
Admission process	Unique
Sudent Mobility	Physical mobility
Student Mobility Duration	12 months
Internships recognition	Yes
Apprenticeships recognition	No
Seminars recognition	No
Learning method	Face-to-Face
Labels	Joint programme accreditation via European Aproach and Erasmus Mundus
Academic organisation	Semester
Summer/winter schools	No
Hackatons	No
Lenguages classes	Yes
SDG competencies	Yes
Digital Skills	N/A
Volunteering recognition	No

Co-funded by the European Union

This project has received funding from the Erasmus+ Programme of the European Union under grant agreement No 101114604

Full official name of the Programme - acronym	5.36 Master of Science in Geospatial Technologies - GeoTech
European Alliance Joint Program	No
Level	Master
MSc, BSc, BE, etc.	MsC
Coordinator - Institution (country)	Westfälische Wilhelms-Universität Münster (WWU) (Germany)
Coordinator Country	Germany
List of partners (with their respective countries)	Universidade Nova de Lisboa (Portugal), Universitat Jaume I de Castellon (Spain)
Number of partners	Portugal;Spain
Number of partners	2
Years	1,5
ECTS	90
URL	https://mastergeotech.info/
Owner email	broxc@uni-muenster.de
Area of Knowledge / Study Fields	Geospatial technologies
Type of JP	EMP
Quality Agency	
Delivered Degree type	Unique
Multiple or Joint Degree	Joint Degree
Regulated Profession	No
Fees	Independent
Admission process	Unique
Sudent Mobility	Physical mobility
Student Mobility Duration	6 months
Internships recognition	Yes - (one module can be replace by work in ongoing research projects)
Apprenticeships recognition	No
Seminars recognition	Yes - (one module can be replace by annual summer school)
Learning method	Face-to-Face
Labels	Programme accreditation in Germany
Academic organisation	Semester
Summer/winter schools	Yes - Summer/Winter Schools
Hackatons	No
Lenguages classes	No
SDG competencies	No
Digital Skills	Yes
Volunteering recognition	No

Co-funded by the European Union

This project has received funding from the Erasmus+ Programme of the European Union under grant agreement No 101114604

Full official name of the Programme - acronym	**5.37 Mastère Spécialisé® Action Publique Avancée Maroc - MAPAM**
European Alliance Joint Program	No
Level	Master
MSc, BSc, BE, etc.	MSc
Coordinator - Institution (country)	ENPC (France)
Coordinator Country	France
List of partners (with their respective countries)	UM6P (Morocco)
Number of partners	Morocco
Number of partners	1
Years	1
ECTS	75
URL	https://ecoledesponts.fr/mastere-specialise-action-publique-avancee-maroc
Owner email	yann.kervinio@enpc.fr
Area of Knowledge / Study Fields	Political sciences
Type of JP	Other
Quality Agency	CGE (conférence des grandes écoles)
Delivered Degree type	Unique
Multiple or Joint Degree	Joint Degree
Regulated Profession	No
Fees	Independent
Admission process	Unique
Sudent Mobility	Physical mobility
Student Mobility Duration	1 week
Internships recognition	Yes
Apprenticeships recognition	No
Seminars recognition	No
Learning method	Face-to-Face
Labels	Joint programme accreditation
Academic organisation	Month
Summer/winter schools	No
Hackatons	No
Lenguages classes	No
SDG competencies	Yes
Digital Skills	No
Volunteering recognition	No

Co-funded by the European Union

This project has received funding from the Erasmus+ Programme of the European Union under grant agreement No 101114604

Full official name of the Programme - acronym	5.38 Mechatronic Systems
European Alliance Joint Program	No
Level	Master
MSc, BSc, BE, etc.	MSc
Coordinator - Institution (country)	Augsburg University of Applied Sciences
Coordinator Country	Germany
List of partners (with their respective countries)	University of Ulster
Number of partners	United Kingdom
Number of partners	1
Years	1.5
ECTS	90
URL	https://www.hs-augsburg.de/en/Electrical-Engineering/Mechatronic-Systems-MEng.html
Owner email	peter.kopystynski@hs-augsburg.de
Area of Knowledge / Study Fields	Mechatronics
Type of JP	EJP
Quality Agency	ASIIN e.V. (ASIIN)
Delivered Degree type	Double
Multiple or Joint Degree	Multiple Degree
Regulated Profession	Yes
Fees	Dependent
Admission process	Differ from the partners
Sudent Mobility	Physical mobility
Student Mobility Duration	6 months
Internships recognition	N/A
Apprenticeships recognition	N/A
Seminars recognition	N/A
Learning method	Face-to-Face
Labels	EUR-ACE joint programme review
Academic organisation	Semester
Summer/winter schools	No
Hackatons	No
Lenguages classes	No
SDG competencies	No
Digital Skills	No
Volunteering recognition	No

Co-funded by the European Union

This project has received funding from the Erasmus+ Programme of the European Union under grant agreement No 101114604

Full official name of the Programme - acronym	**5.39 MSc in Spatial and Ecological modelling in European Forestry Erasmus mundus -**
European Alliance Joint Program	No
Level	Master
MSc, BSc, BE, etc.	MSc
Coordinator - Institution (country)	University of Eastern finland
Coordinator Country	Finland
List of partners (with their respective countries)	University of Lleida (Spain) AgroParisTech (France) Uni Freiburg (Germany) Universitatea Transilvania Brasov (Romania) Universtät für Bodenkultur Wien (Austria)
Number of partners	Spain;France;Germany;Romania;Austria
Number of partners	5
Years	2
ECTS	120
URL	https://www.europeanforestry.udl.cat/en/
Owner email	cristina.vega@udl.cat
Area of Knowledge / Study Fields	Forestry Engineering
Type of JP	EMP
Quality Agency	AQAS
Delivered Degree type	Unique
Multiple or Joint Degree	Joint Degree
Regulated Profession	No
Fees	Independent
Admission process	Unique
Sudent Mobility	N/A
Student Mobility Duration	N/A
Internships recognition	Yes
Apprenticeships recognition	No
Seminars recognition	Yes
Learning method	Face-to-Face
Labels	Erasmus Mundus
Academic organisation	Semester
Summer/winter schools	No
Hackatons	No
Lenguages classes	No
SDG competencies	N/A
Digital Skills	No
Volunteering recognition	No

Co-funded by the European Union

This project has received funding from the Erasmus+ Programme of the European Union under grant agreement No 101114604

Full official name of the Programme - acronym	**5.40 Nordic five Tech in Environmental Engineering - eNviro5Tech**
European Alliance Joint Program	No
Level	Master
MSc, BSc, BE, etc.	MSc
Coordinator - Institution (country)	Technical university of Denmark (Denmark)
Coordinator Country	Denmark
List of partners (with their respective countries)	Aalto University (Finland), Norweigan University of Science and Technology, Chalmers University of Technology (Sweden)
Number of partners	Finland;Norway;Sweden
Number of partners	3
Years	2
ECTS	120
URL	http://www.nordicfivetech.org/studies
Owner email	anbruu@dtu.dk
Area of Knowledge / Study Fields	Environmental Engineering
Type of JP	Other
Quality Agency	The Danish Accreditation Institution (AI)
Delivered Degree type	Double
Multiple or Joint Degree	Multiple Degree
Regulated Profession	No
Fees	Independent
Admission process	Unique
Sudent Mobility	Physical mobility
Student Mobility Duration	12 months
Internships recognition	No
Apprenticeships recognition	No
Seminars recognition	N/A
Learning method	Face-to-Face
Labels	Nordic Five Tech
Academic organisation	semester
Summer/winter schools	No
Hackatons	No
Lenguages classes	Yes
SDG competencies	Yes
Digital Skills	Yes
Volunteering recognition	No

Co-funded by the European Union

This project has received funding from the Erasmus+ Programme of the European Union under grant agreement No 101114604

Full official name of the Programme - acronym	**5.41 Nordic five Tech in Maritime Engineering - NME**
European Alliance Joint Program	No
Level	Master
MSc, BSc, BE, etc.	MSc
Coordinator - Institution (country)	Aalto University (Finland)
Coordinator Country	Finland
List of partners (with their respective countries)	Technical University of Denmark (Denmark), Norweigan University of Science and Technology, Chalmers University of Technology (Sweden)
Number of partners	Denmark;Norway;Sweden
Number of partners	3
Years	2
ECTS	120
URL	http://www.nordicfivetech.org/studies
Owner email	borje.helenius@aalto.fi
Area of Knowledge / Study Fields	Maritime Engineering
Type of JP	Other
Quality Agency	Finnish Education Evaluation Centre (FINEEC)
Delivered Degree type	Double
Multiple or Joint Degree	Multiple Degree
Regulated Profession	No
Fees	Independent
Admission process	Unique
Sudent Mobility	Physical mobility
Student Mobility Duration	12 months
Internships recognition	No
Apprenticeships recognition	No
Seminars recognition	N/A
Learning method	Face-to-Face
Labels	Nordic Five Tech
Academic organisation	semester
Summer/winter schools	No
Hackatons	No
Lenguages classes	Yes
SDG competencies	Yes
Digital Skills	Yes
Volunteering recognition	No

Co-funded by the European Union

This project has received funding from the Erasmus+ Programme of the European Union under grant agreement No 101114604

Full official name of the Programme - acronym	**5.42 Nordic five Tech in Polymer Technology - N5PolTech**
European Alliance Joint Program	No
Level	Master
MSc, BSc, BE, etc.	MSc
Coordinator - Institution (country)	the Royal Institut of Technology (Sweden)
Coordinator Country	Sweden
List of partners (with their respective countries)	Technical University of Denmark (Denmark), Norweigan University of Science and Technology, Chalmers University of Technology (Sweden)
Number of partners	Denmark;Norway;Sweden
Number of partners	3
Years	2
ECTS	120
URL	http://www.nordicfivetech.org/studies
Owner email	perda@kth.se
Area of Knowledge / Study Fields	Polymer Technology
Type of JP	Other
Quality Agency	Swedish Higher Education Authority (UKÄ)
Delivered Degree type	Double
Multiple or Joint Degree	Multiple Degree
Regulated Profession	No
Fees	Independent
Admission process	Unique
Sudent Mobility	Physical mobility
Student Mobility Duration	12 months
Internships recognition	No
Apprenticeships recognition	No
Seminars recognition	N/A
Learning method	Face-to-Face
Labels	Nordic Five Tech
Academic organisation	Semester
Summer/winter schools	No
Hackatons	No
Lenguages classes	Yes
SDG competencies	Yes
Digital Skills	Yes
Volunteering recognition	No

Co-funded by the European Union

This project has received funding from the Erasmus+ Programme of the European Union under grant agreement No 101114604

Full official name of the Programme - acronym	**5.43 Produktion und Automatisierung (Bachelor) - PAB**
European Alliance Joint Program	No
Level	Bachelor
MSc, BSc, BE, etc.	B.Eng.
Coordinator - Institution (country)	Hochschule München
Coordinator Country	Germany
List of partners (with their respective countries)	EPF Ecole d´ingénieurs in Sceaux/Paris (France)
Number of partners	France
Number of partners	1
Years	3,5
ECTS	210
URL	https://sci.hm.edu/studienangebote/bachelor/pab_pam/index.de.jsp
Owner email	aylin.calik@hm.edu
Area of Knowledge / Study Fields	Engineering, Production, Supply Chain Management
Type of JP	Other
Quality Agency	ASIIN e.V. (ASIIN) (Germany)
Delivered Degree type	Double Degree
Multiple or Joint Degree	Multiple Degree
Regulated Profession	No
Fees	Dependent
Admission process	Unique
Sudent Mobility	Physical mobility
Student Mobility Duration	18 months
Internships recognition	Yes
Apprenticeships recognition	No
Seminars recognition	No
Learning method	Face-to-Face
Labels	Joint programme accreditation, EUR-ACE
Academic organisation	Semester
Summer/winter schools	no
Hackatons	no
Lenguages classes	Yes
SDG competencies	N/A
Digital Skills	Yes
Volunteering recognition	No

Co-funded by the European Union

This project has received funding from the Erasmus+ Programme of the European Union under grant agreement No 101114604

Full official name of the Programme - acronym	**5.44 Produktion und Automatisierung (Master) - PAB**
European Alliance Joint Program	No
Level	Master
MSc, BSc, BE, etc.	M.Eng. / Diplôme d´Ingénieurs
Coordinator - Institution (country)	Hochschule München
Coordinator Country	Germany
List of partners (with their respective countries)	EPF Ecole d´ingénieurs in Sceaux/Paris (France)
Number of partners	France
Number of partners	1
Years	2,5
ECTS	90
URL	https://sci.hm.edu/studienangebote/bachelor/pab_pam/index.de.jsp
Owner email	aylin.calik@hm.edu
Area of Knowledge / Study Fields	Engineering, Production, Supply Chain Management
Type of JP	Other
Quality Agency	ASIIN e.V. (ASIIN) (Germany)
Delivered Degree type	Double Degree
Multiple or Joint Degree	Multiple Degree
Regulated Profession	No
Fees	Dependent
Admission process	Unique
Sudent Mobility	Physical mobility
Student Mobility Duration	12 months
Internships recognition	No
Apprenticeships recognition	No
Seminars recognition	No
Learning method	Face-to-Face
Labels	Joint programme accreditation, EUR-ACE
Academic organisation	Semester
Summer/winter schools	no
Hackatons	No
Lenguages classes	No
SDG competencies	N/A
Digital Skills	Yes
Volunteering recognition	No

Co-funded by the European Union

This project has received funding from the Erasmus+ Programme of the European Union under grant agreement No 101114604

Full official name of the Programme - acronym	**5.45 Erasmus Mundus Master of Science in Nanoscience and Nanotechnology - EMM NANO**
European Alliance Joint Program	No
Level	Master
MSc, BSc, BE, etc.	MsC
Coordinator - Institution (country)	KU Leuven (Belgium)
Coordinator Country	Belgium
List of partners (with their respective countries)	Chalmers University of Technology (Sweden), University Grenoble Alpes (France), TU Dresden (Germany), University Barcelona (Spain)
Number of partners	Sweden;France;Germany;Spain
Number of partners	4
Years	2
ECTS	120
URL	https://www.emm-nano.org/
Owner email	nano@kuleuven.be
Area of Knowledge / Study Fields	Nanotechnology, nanoscience
Type of JP	EMP
Quality Agency	CTI (Commission des Titres d'Ingénieur)
Delivered Degree type	Unique
Multiple or Joint Degree	Joint Degree
Regulated Profession	No
Fees	Independent
Admission process	Unique
Sudent Mobility	Physical mobility
Student Mobility Duration	12 months
Internships recognition	Yes
Apprenticeships recognition	No
Seminars recognition	Yes
Learning method	Face-to-Face
Labels	EUR-ACE
Academic organisation	Semester
Summer/winter schools	No
Hackatons	No
Lenguages classes	No
SDG competencies	No
Digital Skills	No
Volunteering recognition	No

Co-funded by the European Union

This project has received funding from the Erasmus+ Programme of the European Union under grant agreement No 101114604

Annex 3: Letter of intent

Letter of intent

Dr./Prof. [name, affiliation], in representation of the [Name of the joint degree/multiple degree],

OBJECT

Through this letter manifest the intention, established by common agreement, to work together to implement the following action.

In the framework of the one-year project, Joint European Degree Label in Engineering (JEDI), co-funded by the Erasmus+, this programme pilots a joint European degree label aimed at recognizing the value of innovative transnational learning experiences.

The objective of JEDI is to develop a prototype label for engineering, technology, science-oriented and European joint degrees in Europe. Such a label would be issued as a complementary certificate to the qualifications obtained by students graduating from joint programs delivered in the context of transnational cooperation between several higher education institutions.

The Master [Name of the joint degree/multiple degree], as a joint/multiple degree in engineering, technology, and applied sciences, agrees to participate in the validation process of the prototype JEDI label and participate in the discussions leading to the final design of the JEDI label.

SIGNATURES

[Name of degree owner] [Affiliation] [University name]	Ramón Martínez Coordinator of JEDI Project Universidad Politécnica de Madrid

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