

Decision on the Evaluation Result

Study programme:

“Joint European Master Degree in Efficient and Sustainable Energy, Transport and Mobility to Build the Smart Cities of the Future” (UlysseusCitiesMD)

offered by **University of Seville** (USE, Spain, coordinator) in cooperation with **Université Côte d’Azur** (UCA, France), **Management Center Innsbruck** (MCI, Austria), **University of Genoa** (UniGe, Italy), **Technical University of Košice** (TUKE, Slovakia) and **Haaga-Helia University of Applied Sciences** (HH, Finland), which are all members of the Ulysseus European University.

Based on the report of the expert panel on the 21st May 2023 the Direction¹ of the Agency for Scientific and University Quality of Andalusia decides:

1. The master degree programme “**Joint European Master Degree in Efficient and Sustainable Energy, Transport and Mobility to Build the Smart Cities of the Future**” offered by University of Seville (Spain) in cooperation with Université Côte d’Azur (France), Management Center Innsbruck (Austria), University of Genoa (Italy), Technical University of Košice (Slovakia) and Haaga-Helia University of Applied Sciences (Finland) is accredited according to the criteria and procedures defined in the European Approach for Quality Assurance of Joint Programmes.


The study programme complies with the requirements defined by the European Approach for Quality assurance of Joint Programmes and the European Qualifications Framework (EQF) in its current version.

2. The accreditation is given for a period of **six years**, valid until 21/05/2029.
3. A follow-up report shall be submitted to ACCUA by the end of the third year of implementation of the joint programme.

The following recommendations are given for further improvement of the programme:

1. Due to some regulatory issues, participants from Finland, Slovakia and Italy cannot award the joint master degree. When the eligibility barriers in those countries have been lifted, a modification to the degree should be filed.
2. The cooperation agreements should be signed before the programme starts and should include detailed information about the funding of the joint programme

¹Consultation of the European Approach Reporting Commission has not been necessary as it is a single evaluation report.

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3. The review panel recommends that the Study Programme provides more detail on the assessment procedures, detailed syllabuses and the distribution of ECTS within modules, as well as the number of hours allocated to the different learning activities.
4. The review panel recommends that the study programme reinforces modelling and simulations, as well as humanities and resilience.
5. It is recommended that the affirmative action rules built in the admission procedures are explicit and known by the applicants.
6. The entry profile for the students should be very well defined. It is recommended to ensure a common starting point for all students, including relevant training on economics for students with a pure engineering background.
7. The review panel recommends the introduction of regular coordination meetings between the teaching staff in order to align the content of the modules and other aspects.
8. The review panel recommends the coordination and centralization of the academic and professional orientation services available and, equally important, the information provided to students about these services. In particular, concerning the mobility support services, that should play a central role in this programme.
9. The panel recommends keeping the student fees as low as possible, e.g. by applying for European funding.
10. The quality management system should be completely in place before the start of the programme, including the definition of the specific quality objectives to be achieved once the joint programme starts.

With regard to the rationale behind this decision the Direction refers to the attached evaluation report.

In Córdoba, on the date of the electronic signature.

THE DIRECTOR

Signed by substitution: THE TECHNICAL COLLABORATOR OF THE AGENCY FOR THE
COORDINATION OF THE AREA OF INSTITUTIONAL ACCREDITATION
(art. 20.3 of the Statutes approved by Decree 17/2023,
of February 14. BOJA no. 39 of February 27, 2023)

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Evaluation Report by the Review Panel

Name of the Programme

**Joint European Master Degree in Efficient and Sustainable Energy,
Transport and Mobility to Build the Smart Cities of the Future
(UlysseusCitiesMD)**

Name of the Coordinating Institution:

University of Seville



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EXECUTIVE SUMMARY

This evaluation corresponds to an ex-ante accreditation of a proposal for the joint master programme made by the European University alliance Ulysseus. The evaluation process has been coordinated by the Agency for Scientific and University Quality of Andalusia (ACCUA) in accordance with the European Approach for Quality Assurance of Joint Programmes (EA).

The joint programme proposal has been presented by the University of Seville (USE) as coordinator of both, the joint master programme and the European University alliance Ulysseus. Participants of this alliance are:

USE: University of Seville, Spain (coordinator).

UCA: Université Côte d'Azur, France.

MCI: Management Center Innsbruck, Austria.

UniGe: University of Genoa, Italy.

TUKE: Technical University of Košice, Slovakia.

HH: Haaga-Helia University of Applied Sciences, Finland.

Only USE, UCA and MCI will award the degree in the first step of the presented roadmap. UniGE, TUKE and HH are only participating institutions until regulatory issues are addressed.

Joint programme description

Name of the joint programme: Joint European Master Degree in Efficient and Sustainable Energy, Transport and Mobility to Build the Smart Cities of the Future (UlysseusCitiesMD).

EQF level: 7 *QF-EHEA level:* 2nd cycle

Degree awarded: Joint European Master Degree in Efficient and Sustainable Energy, Transport and Mobility to Build the Smart Cities of the Future

Number of ECTS: 120

ISCED field(s) of study: Interdisciplinary (9999)

Language of teaching: English

Teaching modality: in-person and online

Description of the strengths of the programme

1. The interdisciplinary content of the joint master degree is appreciated by the review panel and has been strongly supported by the company representatives involved in the review process. The review panel confirmed that the joint degree will provide skills that are demanded by the labour market, a view which has been shared by the students during their respective interviews.
2. The European mobility, which is supported by this master, is also viewed as a timely opportunity for



the students to get international experience.

3. The involved universities can rely on multiple forms of already existing cooperation, this should ensure a successful start of the programme.
4. The panel appreciates the co-creation process for this joint degree and the involvement of relevant stakeholders.

Detailed and reasoned description of the recommendations for improvement per standard provided by the review panel

Standard 1. Eligibility

- Due to some regulatory issues, participants from Finland, Slovakia and Italy cannot award the joint master degree. When the eligibility barriers in those countries have been lifted, a modification to the degree should be filed.
- The cooperation agreements should be signed before the programme starts and should include detailed information about the funding of the joint programme.

Standard 3. Study programme

- The review panel recommends that the Study Programme provides more detail on the assessment procedures, detailed syllabuses and the distribution of ECTS within modules, as well as the number of hours allocated to the different learning activities.
- The review panel recommends that the study programme reinforces modelling and simulations, as well as humanities and resilience.

Standard 4. Admission and recognition

- It is recommended that the affirmative action rules built in the admission procedures are explicit and known by the applicants.
- The entry profile for the students should be very well defined. It is recommended to ensure a common starting point for all students, including relevant training on economics for students with a pure engineering background.

Standard 5. Learning, teaching and assessment

- The review panel recommends the introduction of regular coordination meetings between the teaching staff in order to align the content of the modules and other aspects.

Standard 6. Student support

- The review panel recommends the coordination and centralization of the academic and professional orientation services available and, equally important, the information provided to students about these services. In particular, concerning the mobility support services, that should play a central role in this programme.



- The panel recommends keeping the student fees as low as possible, e.g. by applying for European funding.

Standard 9. Quality assurance

- The quality management system should be completely in place before the start of the programme, including the definition of the specific quality objectives to be achieved once the joint programme starts.



INTRODUCTION

A) The procedure conducted for the review process

As coordinator of the joint master and of the European University alliance, USE requested ACCUA the ex-ante evaluation of the joint master programme according to the European Approach, providing the self-evaluation report (SER) according to the proposed format and 23 annexes as additional evidence.

After discussion with quality assurance agencies from France and Austria and with the European Student Union (ESU), ACCUA proposed the expert panel. The panel composition and CVs were sent to USE. No allegations were sent and ACCUA nominated the expert panel. ACCUA provided an online training session for the panel with the collaboration of the German quality agency AQAS.

Each member of the panel analysed the self-evaluation report (version 21-10-2022) and provided an individual assessment. In a meeting of the panel, these individual reports were discussed and additional information was requested to the Consortium.

The additional information was sent to the panel members before the visit.

The external visit was held online and took place on April 17th and 18th, 2023.

With all the information provided by the Consortium and the external visit, the panel issues this preliminary report.

B) Information on the review panel and its activity

- **Composition of the review panel**

President: Prof. Andreas Reuter

Academic member of the panel: Prof. P. Eloina Coll Aliaga

Student: D. Matej Drobnic

Professional member of the panel: Prof. Emmanuel Natchitz

Secretary: Prof. María Paz Espinosa Alejos

- **Coordination of the review process**

The review process and the internal procedures to nominate the expert panel have been coordinated by ACCUA and developed according to the European Approach. Communication between USE and the expert panel has been fluent.

- **Description of the panel visit**

The visit took place online, on April 17th and 18th, 2023. The agenda was agreed with the coordinating university and the expert panel. The coordinating university provided a list of participants who attended the different sessions via Cisco platform. ACCUA organised the online visit and provided technical assistance. The visit took place without any remarkable incidence. All planned meetings were held and most of participants attended.

- **Coordination for the review report writing**

The provisional report has been elaborated by the secretary of the panel taking in consideration the individual reports of all members of the panel and the findings during the visit.



INFORMATION ON THE PROGRAMME

Name of the programme: Joint European Master Degree in Efficient and Sustainable Energy, Transport and Mobility to Build the Smart Cities of the Future (UlysseusCitiesMD).

EQF level: 7

QF-EHEA level: 2nd cycle

Degree awarded: Joint European Master Degree in Efficient and Sustainable Energy, Transport and Mobility to Build the Smart Cities of the Future

Number of ECTS points: 120

ISCED field(s) of study: Interdisciplinary (9999)

The Consortium responsible for the degree is formed by the following institutions:

MCI/Austria

HH/Finland

USE/Spain

UCA/France

TUKE/Slovakia

UniGe/Italy



ASSESSMENT OF EACH STANDARD

STANDARD 1: ELIGIBILITY

1.1. Status

Guideline

The Institutions offering a joint programme should be recognised as Higher Education institutions by the relevant authorities of their countries. Their respective national legal frameworks should enable them to participate in a joint programme, and, if applicable, to award a joint degree. The institutions awarding the degree/s should ensure that the degree/s belong to the higher education degree system at the countries in which they are based.

Assessment

All participating institutions have applicable legal national frameworks, which entitle them to participate in a joint programme (Annex 3).

Only Austria, Finland, France and Spain can implement the use of the European Approach for Quality Assurance of Joint Programmes (EA). Slovakia and Italy do not accept the EA for accreditation of joint programs.

HH is not authorized (by the Finnish Educational Authorities) to offer a joint programme in the knowledge areas concerning this joint master (Annex 14).

The degree will be accredited and awarded in a first step by the universities in Spain, Austria and France. In following steps, in Slovakia and Italy. The presented roadmap seems to be feasible and the institutions highly committed.

Documentary evidence

- SER.
- Annex 1 presents the legal statutes of the universities of Austria, Finland, France and Spain.
- Annex 3 shows Memorandum_Int_joint_degrees of HH, MCI_joint_degrees in German, Slovakian_law_joint_programme, FR Legal basis_Master degree_Arrêté_2018 in French, Italy_1271_decreto_22_10_2004 in Italian and Royal Decree 1002/2010, of August 5, on the issuance of official university degrees in Spanish.
- Table 3 shows of status of the external quality assurance systems (France, Finland, Spain and France). Annex 14 summarizes the status of the national and regional evaluation agencies regarding their inclusion in the EQAR register.
- Figure 3 illustrates the step-by-step approach for the accreditation and awarding UlysseusCitiesMD.
- During the site visit, the panel verified commitment of all involved institutions with this joint master.



Achieved	Partially Achieved	Not Achieved
X		

Recommendations:

- ***Due to some regulatory issues, participants from Finland, Slovakia and Italy cannot award the joint master degree. When the eligibility barriers in those countries have been lifted, a modification to the degree should be filed.***

1.2. Joint Design and Delivery

Guideline

Joint programmes should be offered jointly, involving all the cooperating institutions in the design and delivery of the programme.

Assessment

The six partner universities are all belonging to the European University Ulysseus, coordinated by the USE. UlysseusCitiesMD follows an integrated approach involving participation of all required stakeholders and distribution of roles among them. All six institutions will participate in the academic governance and Quality Assurance (QA) structure, admission and selection of students, teaching/training, and supervision and evaluation of the master thesis. USE will take care of general coordination (Annex 16, Annex 17).

The Master's programme allows for graduation in three institutions. The other 3 institutions enrol students in the framework of international mobility. The cooperation agreements between these institutions precede this project and have facilitated relations between them.

One strength of the joint degree is the design of the curriculum through a co-creation process involving students, experts and associated partners. The design of the programme is very much a joint one, with each of the partners contributing expertise in one area. They all belong to the governance system developed to manage and administer the programme.

A common internal quality management system is foreseen to ensure the monitoring and development of the Master.

The pedagogical resources are shared by the six partners through the involvement of their professors. The design has provided for transparency of information from the recruitment of students to the monitoring of learning objectives through a shared assessment process. Co-design groups have made it possible to work jointly on the development of the pedagogical model and all the governance bodies.

The management documents of the Master are well-defined in the Self-Evaluation Report.

There is no information about the development of the participation budget agreed by the consortium. The



Self-Evaluation Report and its annexes do not really mention the financial and budgetary aspects of the Master's programme or the agreements made within the framework of the project's operation. The USE, which is the university in charge of the project, seems to be also the budgetary coordinating body. During the site visit this aspect was discussed.

Documentary evidence:

- SER.
- Annex 15 presents a selection of commitments letters from associated partner related to UlysseusCitiesMD.
- Annex 16 shows Ulysseus associated partners participating in the design of UlysseusCitiesMD. The six Ulysseus universities, their students, and their associated partners have jointly designed this programme.
- Annex 17 shows the handbook for Co-creation, design thinking and flexible curricula in Ulysseus Degrees, the co-creation group is composed of experts, students and partners. The documents provided are adequate to show how the programme was designed by the universities, their students, and their partners. The documents also show the establishment of joint regulations for examinations and the development of the participation budget.
- During the site visit it was explained that USE is in charge of financial management and will distribute the available money between the involved universities. They also will apply for additional EU funding.

Achieved	Partially Achieved	Not Achieved
X		

Recommendations: N/A

1.3. Cooperation Agreement

Guideline

The terms and conditions on the joint programme should be laid down in a cooperation agreement. The agreement should cover in particular the following issues:

- Denomination of the degree/s awarded in the programme.
- Coordination and responsibilities of the partners involved with regard to management and financial organisation, (including funding, sharing of costs and income, etc.).
- Admission and selection procedures for students.
- Mobility of students and teachers.
- Examination regulations, student assessment methods, recognition of credits and degree



awarding procedures in the consortium.

Assessment

The distribution of roles between the partners is clearly defined, with a roadmap established to consider the progress of the three universities that will not graduate students.

The agreements define the roles and duties of each. The governance system is described and corresponds to the administration needs of this type of programme. In addition to the academic partners, the project includes socio-economic partners who guarantee the viability of the training programme and the employability of future graduates in all the countries involved.

The programme describes in detail the distribution of pedagogical elements and the associated ECTS credits.

The only point that is difficult to assess is the financial distribution between all stakeholders. The Self-Evaluation Report does not provide enough information to do so.

The cooperation agreements are not signed. During the site visit it has been confirmed that the agreements will be signed upon accreditation of the programme.

The cooperation agreements do not include information on how the programme is going to be financed.

Documentary evidence:

- SER.
- Annex 2 (cooperation agreement) and Annex 18 (general agreement).
- Additional information on how the programme is financed during the site visit.

Achieved	Partially Achieved	Not Achieved
X		

Recommendations:

- ***It is recommended that the cooperation agreements be signed before the programme starts. During the site visit it has been confirmed that the agreements will be signed upon accreditation of the programme.***
- ***It is recommended that the cooperation agreement include information on the funding of the programme.***



STANDARD 2: LEARNING OUTCOMES

2.1. Level

Guideline

The intended learning outcomes should align with the corresponding level in the Framework for Qualifications in the European Higher Education Area (FQ-EHEA), as well as the applicable national qualification framework(s).

Assessment

The learning expectations are clearly explained in the Self-Evaluation Report. The learning outcomes correspond to the Master level (Annexes 4, 5 and 6).

UlysseusCitiesMD has 20 programme-learning outcomes (PLOs). Annex 4 presents the correspondence of these PLOs, the five learning outcomes defined by level 7 of the qualifications framework for the European Higher Education Area, and the six learning outcomes defined by the European Institute of Innovation and Technology. Moreover, annexes 5 and 6 show the transformation of these PLOs into Module Learning Outcomes (MLOs). These annexes show that the learning outcomes are in line with the European and national frameworks.

Documentary evidence:

- SER.
- Annexes 4, 5, 6.
- Additional information provided on request.

Achieved	Partially Achieved	Not Achieved
X		

Recommendations: **N/A**

2.2. Disciplinary field

Guideline

The intended learning outcomes should comprise knowledge, skills and competencies in the respective disciplinary field(s).



Assessment

The learning outcomes correspond to the Master’s field. They are interdisciplinary in nature, in line with the Master’s orientation.

The programme responds to a real need to train new profiles of people capable of approaching urban planning by integrating energy, transport and mobility issues and more sustainable aspects in the development of urban activities. The master develops interdisciplinary topics such as the energy efficiency of buildings, zero-emission mobility driven by electric vehicles, the incorporation of shared mobility models, and new electric traction technologies. The training addresses multi-sector and multiscale (building/city) aspects through the design thinking approach. These are developed taking an international, interdisciplinary and intersectoral approach, which includes the development of specific transversal skills to lead technical situations in multicultural and diverse environments. The programme is built around learning methods related to systematic project management. Technical skills are complemented by a more sociological and human approach. The innovative aspect is also a striking element of the training, which corresponds to a need in urban management.

UlysseusCitiesMD graduates are intended to develop an innovative and entrepreneurial mindset based on the integration of elements of business, education, and research into the programme of study.

The evidence provided shows that the intended learning outcomes are in line with the programme.

The Self-Evaluation Report does not indicate whether the degree is a Master of Science or a Master of Engineering. Considering the multinational nature of the degree and that fact that at some European countries this distinction is relevant. During the site visit, it has been clarified by the consortium coordinators that the degree will be issued according to the individual national requirements (either M.Sc., M.Eng. or others).

Documentary evidence:

- SER.
- Annexes 4 (Learning outcomes), 5 and 6 (Modules).
- Additional information provided on request during the site visit.

Achieved	Partially Achieved	Not Achieved
X		

Recommendations: N/A



2.3. Achievement

Guideline

The programme should provide the necessary procedures to demonstrate the intended learning outcomes are achieved.

Assessment

The Study programme can be found in Annexes 5 and 6. The architecture of the programme is well balanced.

In order to achieve the objectives of the programme, the title profile has been developed and agreed by all partners. As seen in the SER, students, sector professionals, and academic experts have contributed to this programme to guarantee the achievement of the expected learning results, innovation in the learning process and the evaluation of the acquisition of competences.

To achieve the learning outcomes, Ulysseus Cities MD consists of 120 ECTS divided into two years. The first has a core interdisciplinary and technical programme with required subjects and a second year with optional subjects depending on the academic offer of all Ulysseus partner universities. The programme includes the opportunity to do an internship in a company or in a research group.

Annex 5 (sections 5 and 6) includes the guides with the workload, the learning results, the contents, the teaching and learning methodology, the evaluation criteria and methods, and any other necessary information following the TUNING methodology.

The design of the programme will allow to achieve the expected learning outcomes. The proposed assessment procedures seem effective to demonstrate that the learning outcomes are achieved.

In Annex 19 (UlysseusCitiesMD STUDENT'S HANDBOOK) there is only an outline/index of the handbook, it will be available online and in printable version. The Handbook will include also sections "General objectives and learning outcomes. Roadmap for progressive achievement through the semesters and modules.", "Study Programme" and "Workload and length". On request, a more elaborate version was sent to the panel. The information will be available on the website before the programme starts. The student guide has been issued and viewed as sufficient by the students interviewed during the site visit.

Documentary evidence:

- SER.
- Annex 4, 5, 6 and 19.
- Additional information provided on request.



Achieved	Partially Achieved	Not Achieved
X		

Recommendations: N/A

2.4. Regulated Professions

Guideline

If relevant for the specific joint programme, the minimum agreed training conditions specified in the European Union Directive 2005/36/CE, or relevant common training frameworks established under the Directive, should be taken into account.

Assessment

This standard is not applicable. The joint programme will not qualify for any of the regulated professions.

Achieved	Partially Achieved	Not Achieved	Not applicable
			X

Recommendations: N/A

STANDARD 3: STUDY PROGRAMME

3.1. Curriculum

Guideline

The curriculum structure and content should be adequate to achieve the intended learning outcomes.

Assessment

The programme is well constructed to address the city as a whole. The fundamental elements are clearly identified (energy production, transport, mobility, etc.) and are approached in an operational and pragmatic way. The students will be able to carry out projects in a concept of transversality of the fields of action and skills. Certain aspects such as modelling and simulations should be reinforced. Human sciences and resilience are points to be further developed as well.

To achieve the learning outcomes, the co-creation group established a 120 ECTS study programme, divided into two years (4 semesters, 30 ETCS each), with three main parts (the “Core”, the “flexible semester, and the “getting into the sector semester”), as well as a previous “Fundamentals” module.

Figure 6 and 7 of the Self-Evaluation Report (p. 29) show the UlysseusCitiesMD temporal and modular



structure, as well as its distribution in semesters, partner universities and teaching formats and contents.

The subjects of the courses are adequate for the intended learning outcomes.

The timeline is also adequate.

The description of the modules does not explain in detail how the learning outcomes are going to be evaluated. Written exams are mentioned for some part of the modules, but it is not detailed the weight of the different evaluation systems.

The Self-Evaluation Report explains the grading system adopted (as percentage) and its correspondence with the different national systems.

Although the credits for each of the modules are detailed, the syllabus for the different courses are not included, nor the number of hours allocated to the different learning activities. Special effort should be made to make public a more detailed Study Programme before the joint programme starts.

Documentary evidence

- SER.
- Annexes 4, 5 and 6.

Achieved	Partially Achieved	Not Achieved
X		

Recommendations:

- ***It is recommended that the Study Programme provide more detail on the assessment procedures, detailed syllabuses and the distribution of ECTS within modules, as well as the number of hours allocated to the different learning activities.***
- ***It is recommended that the study programme reinforces modelling and simulations, as well as humanities and resilience.***

3.2. Credits

Guideline

The European Credit Transfer System (ECTS) should be applied properly and the distribution of credits should be clear.



Assessment

The structure of the programme is coherent and the distribution of ECTS is adequate.

The programme is correctly constructed to distribute the 120 ECTS between the different parts of the Master.

A fundamental part is seen before entering the Master to ensure the prerequisites of students in the areas covered in the core of the training. The hybrid format allows joint production by the 6 project partners. Semesters 1 and 2 provide a common core of knowledge and skills for all students. Semester 3 facilitates the choice of a specialization and the pooling of offers specific to partner establishments. The Master will use existing programs in universities. This 27 ECTS module is supplemented by 3 ECTS addressing issues of innovation and entrepreneurship or cross-cutting themes. The last semester offers professional immersion for students (15 ECTS) which leads to the production of a technical report (15 ECTS).

The Fundamentals module (up to 24ECTS, pre-semester 1, compulsory), is offered by the USE and will take place before semester 1 starts in a hybrid seminar format (onsite, online), taught by experts in the fields from the six Ulysseus partner universities.

The CORE is the technical and technological training to be taught mainly during the first programme year. The “core” comprises three main blocks with five modules:

(1) The Green block, corresponding to the Green Module (9 ECTS, semesters 1, 2 & 3; compulsory).

(2) The “Foundations on Smart Grids” block, corresponding to the Smart Grid and Renewable Energy Production and Integration Module (27 ECTS, semester 1, compulsory).

(3) The “Smart” block includes 3 modules: Digitalization of Smart Cities Module (15 ECTS, semester 2, compulsory) and two specialization electives: Mobility and Transport in Smart Cities Module (12ECTS, semester 2, elective). Energy efficiency and Smart Buildings module (12 ECTS, semester 2, elective). These three modules will be offered by USE and TUKE in a hybrid format (on-site, online).

FLEXIBLE SEMESTER: Specialization module (27 ECTS, semester 3, elective), Transversal skills module (27 ECTS, semester 3, elective). These modules are offered by the six partner universities on an on-site format, with the participation of the six university partners, associated partners and external experts.

GETTING INTO THE SECTOR SEMESTER: Traineeships module (15 ECTS, semester 4, compulsory) and Master thesis module (15 ECTS, semester 4, compulsory).

Documentary evidence:

- SER
- Annexes 5 and 6.



Achieved	Partially Achieved	Not Achieved
X		

Recommendations: N/A

3.3. Workload

Guideline

A joint bachelor programme will typically amount to a total student workload of 180-240 ECTS-credits; a joint master programme will typically amount to 90-120 ECTS-credits and should not be less than 60 ECTS-credits at second cycle level (credits ranges according to the FQ-EHEA); for joint doctorates no credit range is specified.

Assessment

The total workload is 120 ECTs distributed in four semesters. For those who have to take the fundamentals module (presemester) the load may increase by 24 ECTs.

In the first semester students enrol at USE. In the second semester, students follow the programme either at USE or TUKE (on a mobility basis).

It has been stated that on a theoretical basis the joint master can be followed online, although given the important aspect of European mobility, this is not recommended or foreseen.

In the third semester, students can choose to go to UCA, MCI, UniGe or HH. They may follow onsite courses at the host HEI and online courses in the remaining HEI. The master coordinators will make every effort to provide enough choice of elective courses and avoid conflicting time schedules.

Mobility (a minimum of 1 semester and a maximum of 3 semesters) may impose an additional load.

Documentary evidence:

- SER
- Annexes 4, 5 and 6.

Achieved	Partially Achieved	Not Achieved
X		



Recommendations: N/A

STANDARD 4: ADMISSION AND RECOGNITION

4.1. Admission

Guideline

Admission requirements and selection procedures should be appropriate in light of the programme's level and discipline.

Assessment

The admission criteria include affirmative action rules based on gender, diversity and inclusiveness, but the rules are not detailed (up to ten points or a 5% quota). The groups that are targeted by these rules are ethnic minorities, people with migration background, or with disability, people from low-income families, or students of low qualified parents, among others. It is unclear whether the application form will provide information on the students' socioeconomic background. It is also unclear the weight given to gender balance in the admission process.

Applicants who are in their last year of the Bachelors will not be able to provide a copy of the official university first cycle qualification. However, they will be allowed to apply with a letter from their university.

In order to establish the entry requirements and the criteria for admission to the programme, which are the same for all students, the internal procedures for admission and selection of students that all partner universities have been taken into account are shown in Annex 7. The access requirements, the application procedure and documentation, and the selection process are detailed in the document provided.

Applications will be ranked according to criteria, rated on a scale of 0 to 100. To ensure the clearness and transparency of the selection process, every applicant will have the right to know their final position according to the following scheme:

- Group I: Applications of very good quality (score higher than 75 points out of 100).
- Group II: Applications of good quality (score between 60 and 75 points out of 100).
- Group III: Applications of weak quality (score less than 60 points out of 100).

The admission requirements for this specific programme have been designed to be applied to all applicants regardless of their home institution and are therefore fair to all. They will be clearly announced in the written procedures of the Master. The prerequisites are displayed and the admission's procedure is centralized on a single website. The automatic recognition of access diplomas meets the expectations of this type of programme. The selection and admission schedule are also clearly defined. Once the candidates' files have been registered, the selection and evaluation procedure for the candidates is defined and qualified.



The roadmap is to be publicly available to guarantee the transparency of the access and admission processes and the Selection Committee will have the right to reserve a 5% quota of every first-year intake to promote diversity, inclusiveness, and gender equality.

Overall, it is considered the admission requirements are appropriate for the joint programme.

A common starting point including also some basics in economics for engineers is recommended by the review panel.

Documentary evidence:

- SER.
- Annexes 17, 18, 19 and 21.
- Additional information provided on request during the site visit.

Achieved	Partially Achieved	Not Achieved
	X	

Recommendations:

- ***It is recommended that the affirmative action rules built in the admission procedures are explicit and known by the applicants.***
- ***The entry profile for the students should be very well defined. It is recommended to ensure a common starting point for all, including relevant training on economics for students with a pure engineering background.***

4.2. Recognition

Guideline
Recognition of qualifications and periods of studies, (included recognition of prior learning) should be applied in line with the Lisbon Recognition Convention and subsidiary documents.

Assessment

The recognition of qualifications and periods of studies, (including prior learning) is in line with the Lisbon Recognition Convention (application form in Annex 22).

All Ulysseus partner universities have internal regulations and procedures for the recognition of



qualifications (included prior learning) and periods of study that they show in Annex 8. Additionally, the Framework Agreement on Academic Recognition (Annex 18) shows the steps to promote academic recognition of qualifications and credits earned in any Ulysseus university.

A good job of analysing the elements of mutual recognition has been done and has led to the creation of a single document validated by the partners to facilitate academic recognition on the 6 institutions. This document is complete because it takes into consideration the qualifications and prior learning of potential students as well as the learning outcomes to be achieved, in a way that promotes lifelong learning and increasing access to education and training.

Documentary evidence:

- SER.
- Annexes 8 (Recognition), 18 (Framework Agreement on Academic Recognition) 20 (Roadmap to Ulysseus educational activities) and 22 (credits recognition form).

Achieved	Partially Achieved	Not Achieved
X		

Recommendations: **N/A**

STANDARD 5: LEARNING, TEACHING AND ASSESSMENT

5.1. Learning and teaching

Guideline

The joint programme should be designed to correspond with the intended learning outcomes, and the learning and teaching approaches applied should be adequate to achieve them. Student diversity and their needs should be respected and attended to, especially in view of potential different cultural backgrounds of students.

Assessment

The methodology and educational approach applied in the joint programme are adequate.

Annex 9 shows the internal regulations and procedures for teaching and assessment of students of all Ulysseus partner universities. Annex 9 shows the outline of the Student’s Handbook. Each module will have a guidebook describing the context within UlysseusCitiesMD programme and overall objectives.



According to the Bologna strategy and the TUNING methodology, the guidebooks will also include the workload, intended learning outcomes, and aligned contents, teaching and learning methodology, assessment methods and criteria, as well as any other necessary information.

In the Self-Evaluation Report, Section 7.1 (p. 44) shows the building of transnational teaching teams made of teachers from Ulysseus partner universities, associated partners, invited experts and volunteer students. Aligned teaching is competence-based.

Learning activities include 'learning-by-doing', 'learning by developing', and 'learning-by-thinking/reflecting about this doing/developing'. Module description tables provided in Annex 5 include the module workload, general objective, intended learning outcomes, the main module contents, as well as the teaching and learning methodology and assessment methods.

The pedagogical engineering work done by the Master's team proposes a student-centred learning.

The pedagogical development of the project implements a succession of pedagogical means and methods that facilitate the student's learning process. The simulation will facilitate the acquisition of skills by the student. These scenarios complete the reversed pedagogy, which is also an asset of this Master.

The learning objectives are well-defined by module and are presented to the students at the beginning of the course. The e-learning course offers both theoretical and practical approaches, with seminars to complement the teachers' presentations.

The use of Digital Learning is well mastered and allows all the Master's partners to be present throughout the programme.

Some of the teaching will be delivered online. The Self-Evaluation Report does not detail whether the online teaching will be synchronous or asynchronous.

Documentary evidence:

- SER.
- Annexes 5, 6 and 9.

Achieved	Partially Achieved	Not Achieved
X		

Recommendations:

- **The review panel recommends the introduction of regular coordination meetings between the teaching staff in order to align the content of the modules and other aspects.**



5.2. Assessment of students

Guideline

The examination regulations and the assessment of the achieved learning outcomes should correspond with the intended learning outcomes. They should be applied consistently among partner institutions.

Assessment

In the UlysseusCitiesMD joint programme, different assessment approaches will be used (content-based, competence-based and impact-based assessments). Ulysseus joint degrees will use a grading system with an assessment scale from 0 to 100%, that is, the Master adopts the Spanish grading system. Students failing to pass individual taught modules will be able to take supplemental examination or re-submit required work.

In the Self-Evaluation Report, the weights of the different assessment methods were not specified. However, in the additional information provided, this point has been clarified. The assessment procedures seem adequate.

The evaluation methods use a wide range of pedagogical possibilities. The Master puts forward active and passive methods of evaluation of knowledge and skills. The innovative approach of this Master's programme is also integrated in the assessment methods of the students. The students have a reading grid of their evaluation that allows them to know the areas of improvement that are required of them. The master ensures a homogeneity of evaluation, whatever the path taken and the host university.

The professors in this programme will also be able to evaluate themselves thanks to an internal quality assurance system. Support is provided to guide them in their work within the Master's programme.

Documentary evidence

- SER.
- Annexes 4, 5 and 6.

Achieved	Partially Achieved	Not Achieved
X		

Recommendations: N/A



STANDARD 6: STUDENT SUPPORT

Guideline

The student support services should contribute to the achievement of the intended learning outcomes. They should take into account specific challenges of mobile students.

Assessment

As can be seen in the Self-Evaluation Report, there are Ulysseus students support services, guides and programmes (The UlysseusCitiesMD academic governance and management structure, The Ulysseus Central Management Office, The Ulysseus Student Association and the UlysseusCitiesMD students’network,).They seem sufficient to facilitate the achievement of the intended learning outcomes.

There is a Mobility Office (Innsbruck, Austria) but the extent of the students’ support they provide is not detailed in the self-evaluation report. During the interview it was stated that each involved university offers specific local support and there is a centralised mobility office in Innsbruck specifically for mobility.

The programme uses all the levers for integrating students into the programme to enable them to take the courses in the best possible conditions. A link between the partner institutions allows the promotion of the Master’s programme and ensures cohesion in the activities offered to students. The supporting documents will facilitate the immersion of the students in an international curriculum with different orientation paths. The creation of an Alumni network is an important element in the follow-up and tutoring of incoming students.

Documentary evidence:

- SER.
- Annex 19 (Student Handbook).
- Additional information provided on request during the site visit.

Achieved	Partially Achieved	Not Achieved
X		

Recommendations:

- **The review panel recommends the coordination and centralization of the academic and professional orientation services available and, equally important, the information provided to students about these services. In particular, concerning the mobility support services, that should play a central role in this programme.**



STANDARD 7: RESOURCES

7.1. Academic, administration and services staff

Guideline

The staff should be sufficient and adequate (qualifications, professional and international experience) to implement the study programme.

Assessment

Annex 10 includes the CVs of the main academic staff that will be involved in UlysseusCitiesMD. The qualifications are adequate. There are sufficient academic staff according to number, profiles, category and experience to implement the joint programme.

All the people involved in this programme are considered experts in their field and have the teaching and research legitimacy to participate in this Master. The coordinating team has clearly identified the programme's contact persons in each country. These teacher-researchers are capable of surrounding themselves with professionals who have a contribution and complementarity in the professional approaches.

The administrative team is also well defined to meet the organizational, monitoring and logistical needs of the Master.

Documentary evidence:

- SER.
- Annex 10 (CVs)

Achieved	Partially Achieved	Not Achieved
X		

Recommendations: **N/A**

7.2. Facilities and material resources

Guideline

The facilities provided should be sufficient and adequate in view of the intended learning outcomes.

Assessment

The facilities and material resources are adequate, in particular the digital platform.



The consortium universities have made available to the teams all the human and material resources necessary for the programme to run smoothly. The digital resources (MOODLE, etc.) are compatible between the 6 partners and are sufficiently interoperable to facilitate their remote administration.

The collaborative tools are standard and easy to use, both for the contributors and for the students.

The six Ulysseus Innovation Hubs (IH), one at each partner university, address six R&D challenges shared with regions and cities. Hubs are connected to local nodes around each partner university, to consolidate the Innovation Ecosystem. The IH on Energy, Transport, Mobility and Smart Cities, hosted by the University of Seville, is already settled in the Seville Port space.

Although it has not been possible to personally visit the facilities, the expert panel is well aware of the high-quality facilities of the participant universities for students learning, research and innovation activities and they are sufficient and adequate for the expected number of students to achieve the intended learning outcomes.

Documentary evidence:

- SER.
- Annex 23 (Facilities).

Achieved	Partially Achieved	Not Achieved
X		

Recommendations: N/A

STANDARD 8: TRANSPARENCY AND DOCUMENTATION

Guideline

Relevant information about the programme like admission requirements and procedures, course catalogue, examination and assessment procedures etc., should be well documented and published by taking into account specific needs of mobile students.

Assessment

At the time the Self-Evaluation Report was written, part of the information was not available (e.g. the Student's Handbook). The Student's Handbook was made available to the panel before the visit. This information will be available to students.



UlysseusCitiesMD website is a specific page within the Ulysseus webpage. All partners commit to having it advertised on their frontpage for a minimum of 2 weeks during the application period.

There is an open repository hosted in the Ulysseus Digital Platform, and available through the UlysseusCitiesMD website, what will include, among others, Master Thesis projects from students of previous cohorts. They organize an info-session per year at each partner university. The available public information is sufficient, adequate and accessible to students.

Achieved	Partially Achieved	Not Achieved
X		

Recommendations: N/A

STANDARD 9: QUALITY ASSURANCE

Guideline

The cooperating institutions should apply joint internal quality assurance processes in accordance with part one of the ESG2015.

Assessment

According to the SER, UlysseusCitiesMD will develop a joint transnational internal quality assurance system (IQAS), following the ESG2015. Procedures are defined in the UlysseusCitiesMD Internal QA Handbook (version 31-03-2023)

The Master will apply the Internal Quality assessment procedures that have been agreed upon by all partners. These procedures will be integrated in the UlysseusCitiesMD Internal QA Handbook.

The Ulysseus Internal Quality Assurance System has been inspired by that of the NOHA Joint Master Degree (Joint Master’s Programme in International Humanitarian Action), which has been accredited using the European Approach for Quality Assurance Programme and is available at the NOHA website.

The USE QA Management Unit is in charge of coordinating accreditation and monitoring of the joint degree in contact with the external quality control agency ACCUA.

The proposed surveys among students, alumni, staff, and external stakeholders will allow for the identification of strengths and needs for improvements in the programme design and in the teaching methods.

The governing bodies are structured to meet the quality assurance requirements and hold the necessary accreditation for the award of the degree. The tools seem to be functional and cover all logistical, pedagogical and organizational aspects to ensure the quality of training expected for a Master's degree.



Although the Internal QA system for the joint programme is well defined, the panel missed the public policy for quality assurance of the consortium which should be part of its strategic management as ESG1.1 states. Moreover, reference values have been found for only four quality objectives (graduation rate, dropout rate, success rate and performance rate).

Documentary evidence:

- SER.
- Annex 11 (internal QA).

Achieved	Partially Achieved	Not Achieved
	X	

Recommendations:

- **The quality management system should be completely in place before the start of the programme.**



CONCLUSION

11.1. Recommendations Summary

The recommendations summary is indicated in the "Executive Summary" section.

11.2. The Review Panel Assessment per Standard

In this section, a summary table including assessment per standard is provided and, just in final reports, an evaluation proposal in terms of favourable or unfavourable.

STANDARD		ACHIEVED	PARTIALLY ACHIEVED	NOT ACHIEVED
STANDARD 1. ELIGIBILITY	Status	X		
	Joint Design and Delivery	X		
	Cooperation Agreement	X		
STANDARD 2. LEARNING OUTCOMES	Level	X		
	Disciplinary field	X		
	Achievement	X		
	Regulated Professions (if applicable)	N/A		
STANDARD 3. STUDY PROGRAMME	Curriculum	X		
	Credits	X		
	Workload	X		
STANDARD 4. ADMISSION AND RECOGNITION	Admission		X	
	Recognition	X		
STANDARD 5. LEARNING, TEACHING AND ASSESSMENT	Learning and Teaching	X		
	Assessment of Students	X		
STANDARD 6. STUDENT SUPPORT		X		
STANDARD 7. RESOURCES	Academic, Administration and Services Staff	X		
	Facilities and material resources	X		



STANDARD	ACHIEVED	PARTIALLY ACHIEVED	NOT ACHIEVED
STANDARD 8. TRANSPARENCY AND DOCUMENTATION	X		
STANDARD 9. QUALITY ASSURANCE		X	

Final evaluation proposal: **FAVOURABLE**



ANNEXES

REVIEW PANEL

Prof. Dr. Ing. **Andreas Reuter** is Managing Director Fraunhofer IWES and prof. for wind energy at Leibniz University (Hannover). His previous experience includes:

- Kenersys GmbH, Kenersys Europe GmbH, Managing Director. In charge for the European business of the Kenersys Group and the global product development. Between 2007 and now developed the strategic positioning of the new venture and growing the company from 10 to 70 employees, implementing all required processes for engineering and non-engineering activities and heading the design of 2 new turbine platforms.
- RSBconsult GmbH, Co-Founder & Managing Director. Founder and owner of RSBconsult, consulting company with 8 employees, focus on high level strategic and technical support to the wind industry covering both on- and offshore projects. Initiating and executing the sale of the company to Kalyani Group in order to create Kenersys.
- GE Wind Energy GmbH, Generalbevollmächtigter
- Enron Wind GmbH, Managing Director
- Tacke Windenergie GmbH, Vice President Engineering since June 99. Responsible for all engineering activities globally at GEWE and growing the engineering organisation from 20 to 250 engineers and covering manufacturing support, service engineering as well as development of new products including the GE 1.5 turbine, currently the most successful turbine with around 12.000 installations globally. Representation of the company on fairs and conferences, also organizing the participation in research programs (e.g. NREL). Participation in various M&A processes.
- aerodyn Energiesysteme, Structural Design Engineer. In charge for the areas of structural design and load calculation. Executed design projects for a number of major German and Danish wind turbine manufacturers. Development of new approaches in tower design and fatigue analysis for wind turbines
- Technische Universität Berlin, Rotor Dynamics and Wind Energy Responsible for the lectures and research activities in the field of wind energy and rotor dynamics. PhD. in wind energy (site specific fatigue of wind turbines). As an assistant professor, implemented new curriculum resulting in a successful teaching book on wind energy (Windkraftanlagen, Teubner-Verlag). Integration of interdisciplinary approaches in the curriculum and industry participation in the education of the students.

María Paz Espinosa (PhD in Economics, Harvard University) is an Economics professor at the University of the Basque Country, former President of the Spanish Economic Association, and Academic Vicepresident of the Spanish Association for Energy Economics (AEEE). She works on Industrial Organization and Energy Economics, particularly on the introduction of renewable sources and the integration of electricity markets. She has published her academic work in *The Quarterly Journal of Economics*, *Rand Journal of Economics*, *Economic Theory*, *Games and Economic Behavior*, *Energy Economics*, *Energy Policy*, *Economic Modelling*, *Journal of Regulatory Economics*, *International Journal of Industrial Organization*, *Energy Journal*, *Journal of Mathematical Psychology*, *Journal of Behavioral and Experimental Economics*, *Journal of International Economics*, *European Journal of Law and Economics*, *Physica A: Statistical Mechanics and its Applications*, *Journal of Economic Behavior and Organization*, *Journal of Economic Methodology*,



International Game Theory Review, International Tax and Public Finance, Regional Science and Urban Economics, Journal of Economics and Management Strategy, and European Journal of Marketing, among others.

Matej Drobnič is currently student of 3rd cycle Doctoral Study Programme at Mechanical Engineering at University of Ljubljana (Slovenia). He has experience in QA evaluation as member of the pool of experts of NVAO, ENQA, IEP, ESU and the Slovenian Quality Assurance Agency for Higher Education, participating in more than 40 programme and institutional evaluations. He is also board member of the Mechanical Engineering Doctoral Students Society and member of the Student Council of the Faculty of Mechanical Engineering, University of Ljubljana.

Peregrina Eloína Coll (PhD in engineering) is Deputy Director Head of Studies of the Higher Technical School of Cartographic Engineering, Geodesy and Photogrammetry from 2013 to May 2021 and Director of the Faculty Area of the Polytechnic University of Valencia (UPV) from June 2021 to the present. She has directed 4 doctoral theses and 3 doctoral theses in development. In addition to publications, projects and patents, she has 88 publications in conferences (mainly international), 2 complete books and 13 book chapters. She works as Professor at the UPV since 1995 teaching undergraduate and master's degrees on issues related to geographic information, geospatial databases, geographic information systems, spatial data infrastructures, SDG and open data. She belongs to the Spatial Infrastructure Working Group of Spain (GT IDEE) created by the Superior Geographic Council. She is a member of the sub-working group on spatial data infrastructures in local administration and the street and address working group. She is also part of the Specialized Commission on Geographic Standards of the National Geographic Institute. She has experience in quality assurance as expert of the National Agency for Evaluation, Quality and Accreditation (ANECA), AQU Catalunya and AAC-DEVA. She has worked as European Commission expert and as Director of the Governing Company Chair of the Ciutat de València.

Emmanuel Natchitz trained as a topographic engineer and entered higher education in 2001. Initially as associated professor in topography, he quickly turned to new technologies for modelling objects in space. He became Director of Studies in engineering training, then in continuing education and Specialized Masters®, and created various programs in BIM, CIM and more generally in the Smart City. Since March 2018, he is Director of Development at ESITC Paris, where he created ESI 13: The Smart Construction Incubator. Emmanuel Natchitz is also a referent in different professional associations and organizations, where he works on the dissemination of skills and technical knowledge of new approaches in the fields of management and construction. Since 2022, Emmanuel Natchitz is an expert for the CTI (Commission des Titres d'Ingénieurs) and the HECERS (Haut Conseil de l'Evaluation de la Recherche et de l'Enseignement Supérieur).



VISIT PROGRAMME

SITE VISIT AGENDA

Date: 17-18 April 2023

European consortium: Ulysseus

Joint degree: Master Degree in Efficient and Sustainable Energy, Transport and Mobility to Build the Smart Cities of the Future

Panel members:

President: Andreas Reuter

Secretary: María Paz Espinosa Alejos

Academic: P. Eloina Coll Aliaga

Professional: Emmanuel Natchitz

Student: Matej Drobic

The panel was assisted by technical staff of ACCUA.

Type of visit: Online

<https://aac-jda.webex.com/aac-jda/j.php?MTID=me0e55d7add2db5cd0e3e22d33baba7cc>

1st Day online site visit. 17th of April 2023

Time	Activity.
15:00-15:30	Internal meeting of the panel.
15:30-16:15	Meeting with programme coordinators.
16:15-16:30	Internal meeting of the panel.
16:30-17:15	Meeting with teaching staff.
17:15-17:30	Internal meeting of the panel.
17:30-18:15	Meeting with students.
18:15-18:30	Internal meeting of the panel.
18:30-19:00	Meeting with employers/external stakeholders.
19:00-19:15	Internal meeting of the panel.
19:15-19:45	Meeting with consortium coordinators.
19:45-20:00	Internal meeting of the panel. End of day 1.

2nd Day online site visit. 18th of April 2023

Time	Activity
15:00-15:30	Internal meeting of the panel.
15:30-16:15	Meeting with students support services.
16:15-16:30	Internal meeting of the panel.
16:30-17:00	Meeting with quality assurance representatives.
17:00-17:45	Internal meeting of the panel.
17:45-18:15	Final meeting visit conclusions. End of the visit.



LIST OF EVALUATED DOCUMENTARY EVIDENCE AND OTHER ADDITIONAL EVIDENCE

- Self-Evaluation Report (version 21-10-2022).
- Annex 1 to Annex 23.
- Additional information provided by the Consortium (Internal Quality Assurance Handbook, Student's Handbook, programme's financial information, detailed structure of the joint study programme).
- Additional evidence gathered during the external visit.

THE PRESIDENCY 'S SIGNATURE

Andreas
Reuter

Digital unterschrieben
von Andreas Reuter
Datum: 2023.05.21
16:18:35 +02'00'

Prof. Andreas Reuter

THE SECRETARY 'S SIGNATURE

MARIA PAZ
ESPINOSA
ALEJOS -
22716457R

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Prof. María Paz Espinosa

DATE: