

MSc's Rules and Requirements

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Introduction

ADMIRE

"A tailor-made sustainability strategy needs to be developed and included in the original design of each Master programme. This strategy needs to be elaborated jointly by all consortium members"

Sustainability of Erasmus Mundus Master Courses, Best practice guide based on survey results and analysis (2017)

The successful implementation of Joint Master Degrees continues to be a major challenge in Europe, where some key factors are directly related with the design and management. Several good practices and tools have been piloted and implemented in particular trough the Erasmus Mundus programme, providing useful results for the development of future initiatives.

Historically, the approach for developing Joint Master Degrees has been related with the direct cooperation and settlement of an agreement between higher education providers and ADMIRE project's structure is based on the Knowledge Triangle, focusing on responding and striving for excellence in the cornerstones of the knowledge triangle, namely, to boost cooperation between education institutions, research organisations and business.

The current document has been developed under ADMIRE project work package 2 and updated after the pilot courses in work package 5. The present document establishes the strategy for the setup, implementation and the fundamental rules and requirements related with the final European Metal Additive Manufacturing Master, the AM MSc Council, quality assurance mechanisms, admission requirements and length of the studies cycle, developed to support the implementation phase of the AM MSc during ADMIRE Project.

The inclusion of the final European Metal AM MSc Curriculum in the International AM Qualification System facilitates the process of awarding a Joint Master, and more important it defines the path for European Universities to award a European harmonized Curriculum totally aligned with industry requirements. Being so this document aims to contemplate all the requisites, rules and procedures needed to sustain the quality of this European Curriculum and is composed by the following sections:

- Quality Assurance
- Metal Additive Manufacturing Joint Master
- AM MSc Council
- Degree's Outcome Profile
- Admission Requirements
- Examination Procedures
- Apply for the International AM Qualification System

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Quality Assurance of International AM Qualification System

The final Curriculum developed in ADMIRE project is part of the International AM Qualification System (IAMQS). Being so, there are several Quality Assurance Procedures to be kept in order to provide transparency and quality of the courses taught under the scope of the IAMQS.

AM Education, Training, Examination and Qualification Guidelines (from now on referred to as AM Qualification Guidelines) are the responsibility of International AM Qualification Council, which reviews them every three years and updates whenever needed for the IAMQS members to comply with the updates within 18 months.

AM Qualification Guidelines (annex: Final MSc Curriculum Guideline) that define the training syllabus and examination requirements for AM Qualifications require participants to comply with access conditions and always with a minimum attendance at an approved AM course delivered by a University from the ADMIRE Network of Universities. This leads through examination by the IAMQS member, to qualification and the award of a European Diploma.

All the diplomas are issued through a centralised platform and they are all registered in that platform. IAMQS Universities must ensure that all participants on AM Qualification approved training programs give their formal authorisation for their data to be stored in a database for the purpose of issuing AM Diplomas and/or verification of validity of AM Diplomas.

Claims of conformity to the AM Qualification Guideline by training bodies are valid only after approval has been granted to an IAMQS University by an IAMQS member organization.

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Metal Additive Manufacturing Joint Master

AM MSc Quality Assurance Mechanisms are to be settled according to the European Approach for Quality Assurance of Joint Programmes, approved by EHEA ministers in May 2015, and the Standards and Guidelines for Quality Assurance in the European Higher Education Area (ESG). (2015). Brussels, Belgium.

This will support in one hand, the development of a European Approach regarding Quality Assurance, and, facilitate a future accreditation process in case ADMIRE project decides to submit a proposal for a Joint Programme Accreditation.

The Metal Additive Manufacturing Joint Master (AM MSc) aims providing to the EU current and future workforce the necessary knowledge, skills, autonomy and responsibility outcomes required for the metal additive manufacturing industry, thus contributing both for the employability (trough the development of the right kills for the right jobs) and mobility (trough the development of supporting mechanisms for the mobility within the European Union either of learners or professionals) of EU citizens within the European Union.

To provide a European response for this need, AM MSc follows the motto of a Joint Programme (JP), meaning "an integrated curriculum coordinated and offered jointly by different higher education institutions from EHEA", as approved by EHEA ministers in May 2015 in the European Approach for Quality Assurance of Joint Programs, although it's main purpose is not to develop an joint accreditation process, but to directly contribute for the fostering of the cooperation and innovation between the higher education provision and the metal additive manufacturing industry at EU level.

The inclusion of the Final European Metal AM MSc Curriculum in the International AM Qualification System (IAMQS) facilitates the process of System's Universities to award a Joint MSc. Thus, the IAMQS encourages networking between the Universities that compose it and facilitates the process of awarding Joint Masters. The IAMQS rules and procedures are adapted to this situation and it Universities are encouraged to collaborate.

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AM MSc Council in the International AM Qualification System

It is of relevance to point out that within the frame of EU-level profile qualifications, EWF is also willing to recognize AM MSc por the purpose of its diploma awarding, thus contributing for the industry recognition at wider scope.

EWF as manager of the IAMQS created amongst its member organizations an International Metal AM Qualification Council (IAMQC), which will be responsible for the review and update of the final European Metal AM MSc Curriculum.

This Council was created for the design of the MSc structure and for the definition of the scientific content, teaching, learning and assessment strategies. It will participate in the definition of the general MSc Learning Outcomes (LOs) and, specifically, in the definition of the LOs units for each module regarding suitable knowledge, skills and competences. LOs will be defined based on complete workbased learning and theoretical assignments, working processes, areas of work, work-based learning, fields of action or competence and specific for the AM MSc.

Additional members will be engaged by invitation based on their technological relevance to the sector.

Selection process

→ representation of all Countries within the consortium (UK, Portugal, Germany, France, Netherlands, Belgium) and IAMQS members

Share

During ADMIRE project:

• Scholars (university + teaching staff): 100%

After ADMIRE project:

- Industry: 50% (AM experts that collaborate with the IAMQS)
- Scholars (university + teaching staff): 50%

The percentages of the Councils compositions changed during the project duration due to the inclusion of the developed Curriculum in the IAMQS. Therefore, in an initial phase the Councils will be composed only by experts representing the member organizations from the IAMQS. At a later stage industrial experts will be joining the International AM Qualification Councils.

The Councils will schedule periodical meetings to review and update the final European Metal AM MSc Curriculum every 3 months. Physical meetings are preferable although in case of impossibility an online meeting will be scheduled.

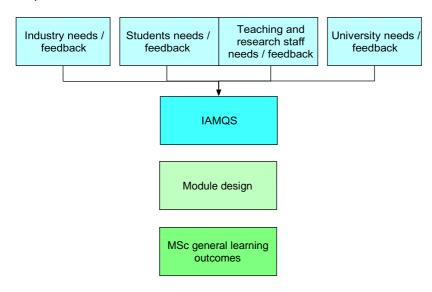
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Input: minutes from meetings

Output: report containing list of recommendations

The Council will continue with the meetings to update the European Metal AM MSc Curriculum structure (if necessary), its strategies, guidelines, contents and materials. This will be done based on the feedback, assessment of the targets, the external evaluation process and the lessons learned. In this line, the 'combined' teaching staff is also expected to continue exercising its activity, as there is shortage of qualified workman force.



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Degree's Outcome Profile

The final European Metal AM MSc is aimed at educating engineers, project development leaders and innovation experts in the emerging field of metal additive manufacturing (metal AM). Experts in metal additive manufacturing industries are lacking and becoming intensively looked after by companies and institutions acting namely in research and innovation, services and machine suppliers, and other relevant fields of activity such as welding and related technologies, gas suppliers and railway maintenance.

Looking into the current labour market requirements regarding a specific set of skills and competencies in the field of metal AM, AM MSc should be able to prepare its candidates for undertaking the following tasks and responsibilities upon completion of the programme:

- Evaluate manufacturing suitability for clients' requests defining which process is fit for the request, developing cost models and providing feedback concerning operating costs;
- Develop and execute custom and standard manufacturing plans for additive manufacturing, from validation of design, development, pre and post processing operations, parts conformity and to identifying causes and corrective actions of technical production problems;
- Coordinate the tasks distribution between the operators according to the workplan as well as manage the link between them and the management.
- Apply a wide variety of engineering techniques, will contribute to projects in a teaming environment and will investigate, transfer, and adapt processes, techniques, or methods to new applications.

In terms of general descriptors according to the EQF level 7 (and its compatibility with the second cycle of the Framework for Qualifications of the European Higher Education Area) regarding the outcome profile for the AM MSc, the following statements should be considered as starting point for the programme design:

ISCED LEVELS	EQF LEVELS	KNOWLEDGE	SKILLS	AUTONOMY AND RESPONSIBILITY
7	7	Highly specialised and forefront knowledge including original thinking, research and critical assessment of theory, principles and applicability of metal additive manufacturing processes and technologies.	Highly specialised problem- solving skills including critical and original evaluation, allowing to define or develop the best technical and economical solutions, when applying metal additive manufacturing technologies, in complex and unpredictable conditions	Manage and transform the metal additive manufacturing processes in a highly complex context. Fully responsible for the definition and revision of personnel's tasks.

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Admission Requirements

For the purpose of entry and admission requirements, beyond the ones described in the current draft guideline, additional national requirements if existing, should also be considered. Annex 1 in the current draft guideline details the current existing national requirements in ADMIRE Project Partner Countries.

The following can apply:

- Engineering degree in Mechanical, Materials, Aeronautic, Materials or similar
- Holders of a 1st degree in the areas of Industrial, Process, Materials or Mechanical engineering, subject to curricular appreciation of the candidate.
- The program requires Metallurgy, Mechanical Engineering and Materials notions at the level of a first general engineering cycle;
- Holders of a higher academic degree conferred after a 1st cycle of studies organized in the above areas, in accordance with the principles of the Bologna Process by a State adhering to this Process:
- Holders of a higher academic degree conferred after the 1st cycle of studies, in those areas, outside the Bologna Process agreement that is recognized as meeting the objectives of the degree by the MSc Council;
- Holders of an academic, scientific or professional curriculum recognized by the by the MSc
 Council of the programme, as testifying the ability to carry out this programme;
- MSc Council employees from the representative industrial holders of a higher academic degree conferred after the 1st cycle of studies, willing to develop expertise in the field of Metal additive Manufacturing.

Also, people without a formal academic recognition can apply for a place onto the course, including people with a Higher National Diploma (HND) or a full-time Higher National Certificate (HNC). These would have to be interviewed to assess their level of competence.

Part-time students can start at any point in time during the academic year.

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Examination Procedures within the International Metal AM Qualification System

One key point to sustain harmonization of a Qualification System is to ensure harmonization of the examination of the courses taught within the System's scope.

Keeping Harmonized Examination is a key factor to sustain the International AM Qualification System. All System's exams are fully harmonized, which means that the IAMQS Universities do not develop their own exams and are provided with one upon request to the IAMQS Country member.

The appointed IAMQS member organization is responsible for the development of the exams. Upon request of the University, the member organization develops the exam based on a database of examination questions owned by the IAMQS. 2 days before the exam date, the IAMQS member organization provides the exam for the University to carry it out. Afterwards, the University delivers the exam to the students and collects the answers. Then, the University delivers the answers to the member organization that in its position corrects the exam and delivers the results back to the University. In the end the University informs the students of the exam results.

In a Nutshell, the IAMQS University is only responsible for delivering the exam, collecting the answers and informing the students of the results. The remaining procedures, such as developing and correcting the exam are of responsibility of an assigned IAMQS member organization.

In order to award a European Diploma, the University must deliver one exam for each Competence Unit of the final European Metal AM MSc Curriculum. All exams from the IAMQS are generated randomly from a previously defined database of questions.

Examinations within the IAMQS scope are done under the Multiple Choice Questions Methodology. All exams shall have one question per contact hour defined in the Curriculum. Also, every question shall have more than one possible correct answer.

Furthermore, examination can also be done by case studies to practical Competence Units from the final European Metal AM MSc Curriculum. The development of exam questions and case studies is of the member organizations of the IAMQS. All case studies must be aligned with the Learning Outcomes Job Functions and Job Activities of the appointed Competence Unit. There is a confidentiality agreement between the University and the IAMQS that sustains the case studies provided can be used by other IAMQS Universities in their course's examination.

Although IAMQS develops the exam questions all Universities that deliver the final European Metal AM MSc Curriculum can developed their own exam accordingly to the rules defined by the IAMQS. If a University decides to do so, the exam needs to be validated by an appointed IAMQS member organization.

Moreover, in order for a University to evaluate its students through Thesis in the end of the Metal AM MSc, it must comply with the rules and procedures of the IAMQS. Universities are given a wide scope of the thesis subject, nevertheless the thesis must be related to the LOs of the final European Metal MA MSc Curriculum. Within the Quality Assurance System of the IAMQS all thesis must be validated by the

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IAMQS appointed member organization in order to be accepted as an official evaluation of the MSc. The information resulted from the thesis is confidential.

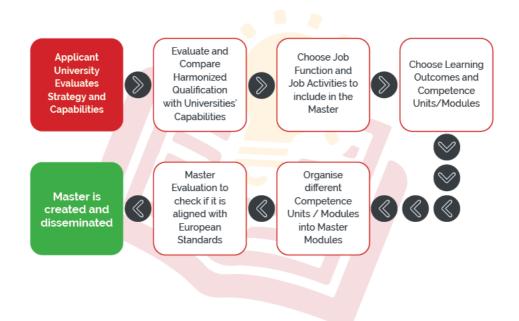
One main aspect highlighted as a necessity of the final European Metal AM MSc Curriculum is to award a European Diploma recognized by Industry worldwide. If a University complies with the rules and procedures of the IAMQS and students successfully pass the System's exams the student is awarded with a European Diploma emitted by the IAMQS appointed member organization.

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Apply for the International AM Qualification System

Universities to be part of the IAMQS have to comply with several previously defined rules and procedures. At this point of the document will be highlighted the several steps an applicant University must go through in order to become an IAMQS official University. An IAMQS appointed member organization will provide guidance through the all process. The following figure gives an overview of the process:



- 1- Applicant University evaluates its Strategy and Capabilities assessing clearly its Metal AM objectives and defining if want to: develop a full MSc Curriculum from ground, align existing University's Metal AM Curriculum with the European Metal AM Curriculum, or if the Applicant University want to deliver just some of the Competence Units of the European Metal AM Curriculum;
- 2- European Organization shares the European Metal AM Engineer Harmonized Guidelines and the Applicant University compares it with the Strategy and Capabilities previously identified;
- 3- Afterwards, Applicant University chooses which Job Functions and Job Activities they want to deliver;
- 4- Applicant University chooses the Competence Units they want to include in the Metal AM MSc course, or that they want to teach separately;
- 5- Applicant University organises the selected Competence Units in larger Modules (either new ones or by including the content on existing Modules);
- 6- New Curriculum created by the Applicant University is evaluated by the EWF Authorized Nominated Body (ANB) and if complies with the rules and requirements the Curriculum is recognized, otherwise is provided counselling on how to improve it;

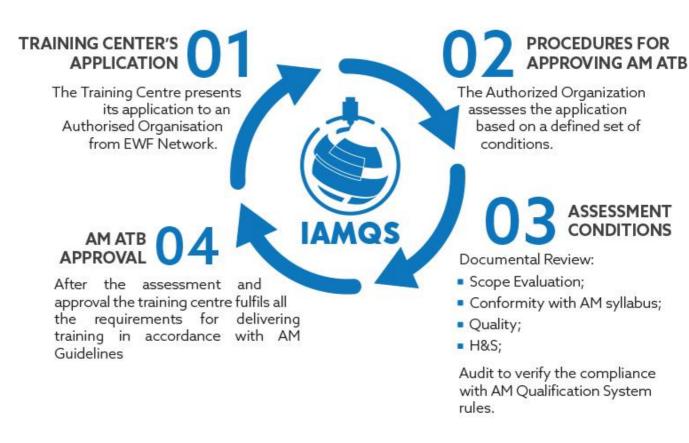
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7- University enters the Metal AM MSc Network and the Master or individual Learning Units are disseminated by the European Organization.

The applicant University will also be audited by an appointed IAMQS member organization ensuring it complies with all rules that encompass the IAMQS Quality Assurance System.

The procedure is highlighted as follows:



The Applicant University would have to present its application to the IAMQS member organization. Then member organization assesses the application based on a specific set of rules and conditions previously defined, such as scope evaluation, Conformity with syllabus, Quality, H&S. The applicant University will be audited accordingly to the IAMQS rules and conditions. By the end the applicant is officially approved and can deliver the final European Metal MA MSc Curriculum.

Please note that all documentation provided during the process is confidential.

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Annex 1 - Current National Requirements for a Master Degree

UK

Here we explain the minimum entry requirements and the range of assistance available to help you meet them.

If you are an international student you may need to provide evidence of your English language proficiency when you receive an offer to study with us.

Minimum entry requirements

- A UK first (>70%) or second-class honours (60%-70%) degree in a relevant subject area:
- An equivalent international qualification (find out whether your qualification meets our requirements by visiting our International Student page) or
- Relevant work experience in combination with a degree below second class honours (<60%).

If you do not meet our formal entry requirements, but still feel you can demonstrate the ability to complete the course successfully, you may still be accepted onto the course. Each application will be considered on its merits.

English language requirements

If you are an international student you will need to provide evidence that you have achieved a satisfactory test result in an English qualification. The minimum standard expected from a number of accepted courses are as follows:

- IELTS Academic 6.5
- TOEFL 92
- Pearson PTE Academic 65
- Cambridge English Scale 180
- Cambridge English: Advanced C
- Cambridge English: Proficiency C
- Trinity College London Integrated Skills in English III minimum overall score of pass

In addition to these minimum scores you are also expected to achieve a balanced score across all elements of the test. We may reject any test score if any one element of the test score is too low. Some courses may specify higher test scores so please check the details of your course for the English language requirements you will be expected to meet.

We can only accept tests taken within two years of your registration date, with the exception of Cambridge English tests, which have no expiry date.

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Students requiring a Tier 4 (General) visa will also need to meet the UK Home Office Tier 4 (General) student visa English language requirements. The UK Home Office are not currently accepting TOEFL or TOEIC tests for Tier 4 (General) visa applications. Other restrictions from the UK Home Office may apply from time to time and we will advise applicants of these restrictions where appropriate.

What can I do if I don't meet the English language requirement for my chosen course?

If you have not met the appropriate English language requirement for your course, you could consider one of our Presessional English for Academic Purposes (EAP) courses. They are offered to international students who do not meet the minimum scores as described above.

- Working with a team of well-qualified and experienced tutors, we will help you:
- Improve your English language skills to satisfy our entry requirement,
- Develop and improve your knowledge and use of academic English,
- Prepare for the kinds of assignments you will complete on your course,
- Gain the confidence and skills needed to succeed in your academic studies,
- Introduce you to life in the UK and to UK culture.

Winter and summer courses are offered each year, with students enjoying a choice of three course lengths, over 20, 10 or five weeks.

The winter programme has been designed for applicants for research programmes starting in the summer. Applicants for courses starting in September/October are strongly advised to apply for the summer English programme. Applicants must provide their most recent UKVI IELTS test to be considered, as we are unable to consider an international applicant who has taken an alternative English language test.

Applicants who have not met the standard entry requirements for any of the above courses should contact the Pre-sessional team further advice and guidance. All applications are considered on their merits, on a case-by-case basis.

Pre-Master's programme at KIC London

International students who do not meet the direct entry requirements may qualify for the Pre-Master's programme at KIC London. Successful completion of the programme guarantees your acceptance onto your chosen degree with Cranfield University.

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Germany

evidence of having obtained a prior academic degree in an appropriately related field of study
 (e. g. a Bachelor degree with 180 ECTS or equivalent). The degree can be recognized;

- a final grade (or average grade at the time of application) better than or equal to certain CP from one or more of the main disciplines while studying on the prior degree course (don't know who set up this CP level or main disciplines, probably the MSc organizers);
- competence in the English language (proof should be provided); if the MSc is taught in English, the competence asked for is at a level of C1 according to the Common European Framework of Reference for Languages.
- a Letter of Motivation giving student reasons for choosing this particular program. The criteria
 for assessing applications are: The specific reference to the program, a clear and convincing
 depiction of student personal aptitude and goals, especially with regard to the relation between
 the content of the program and career expectations, and congruence between motivation to
 study and the program focus.
- CV (optional)
- If applicable, evidence of professional or other experience related to the field of study (optional)

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Annex 2 - Towards Sustainability: Quality Assurance Mechanisms for Joint Programs

Considering that a future accreditation process for a Joint Programme of Am MSc could be in place, it is strongly recommended that a team (AM MSc Quality Assurance Team, composed by members of the AM MSc Council and Higher Education partner institutions representatives) is settled for the preparation of a submission process.

AM MSc Quality Assurance Team should take care of the implementation of the internal quality assurance system and external quality requirements, following the European Approach for Quality Assurance of Joint Programmes, approved by EHEA ministers in May 2015, and the Standards and Guidelines for Quality Assurance in the European Higher Education Area (ESG). (2015). Brussels, Belgium.

By complying with this approach for external quality assurance and accreditation, AM MSc Quality Assurance Team should agree and decide on the selection of a suitable quality assurance agency from the list of EQAR-registered agencies to ensure external quality assessment and accreditation at programme level, that following the agreed standards and procedures of the European Approach will be able to carry out a single evaluation or accreditation of the entire joint programme.

This procedure ensures that the external quality assurance decision will be accepted and recognised in all EHEA countries where the programme is offered, as agreed in the Bucharest Communiqué.

During ADMIRE Project, it is of critical importance that contacts with National Agencies are undertaken, in order to ensure AM MSc accreditation and approval, since although under the umbrella of the European Approach for Quality Assurance of Joint Programmes countries shall not apply any additional national criteria, many countries still apply additional national criteria trough national legislation, such as the need of separate national programme accreditations, inexistent legislation concerning recognition of foreign quality assurance agencies, national contradiction regarding ECTS attribution, etc.

The AM MSc Quality Assurance Team should also ensure during ADMIRE project that all partners have a common understanding of the Am MSc internal quality assurance system, that the responsibilities regarding the internal quality assurance is clearly shared and coordinated and that the quality assurance policy covers both the academic and administrative aspects of the AM MSc.

Principles and regulations to comply with in case of submission of AM Msc as a Joint Programme:

I Consortium, Governance and Management

Good working relationships are a key factor for the success of AM MSc, and should be inherent to the selection of future Partners, as well as the added-value of this joint programme;

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All institutions must be recognized and/or accredited as higher education institutions in their (sub)national higher education systems and can legally offer AM MSc as a joint programme;

There shall be a consortium agreement, signed by the competent authorities of the partner institutions, stating overall partners responsibilities within the consortium and regarding the coordination of the joint programme.

A local coordinator assigned by each partner shall be identified;

The bellow aspects should be further detailed concerning Consortium, Governance and Management:

- Coordination and responsibilities regarding internal and external quality assurance;
- Financial organisation (including sharing of costs and incomes, charging registration and/or tuition fees, grants and fellowships);
- Amending, renewing or terminating the agreement;
- Changes in partnership;
- The consortium recognises the required financial (and administrative) resources and has a common policy on tuition fees
- A clear and transparent budgeting strategy is settled
- The partners agree on the proactive and reactive provision of information
- Type of degree (joint, multiple) and awarding modalities;
- "User-friendly" public information on the programme, including tuition fees, application process, enrolment, program, etc (including a dedicated website);
- The application procedure is organised transparently for all those involved and information regarding the application is shared among all partners
- Admission and selection procedures for students;
- Mobility of students and teachers;
- Examination regulations, student assessment and recognition of credits in the consortium;
- Teaching language(s);
- Administration of student's data and performance records (jointly arguived);
- Support for student mobility;

II Teaching and Learning Outcomes

Both the general Learning Outcomes of AM MSc (fully developed in deliverable 2.3 Design Process' Draft Guideline) and each Module Learning Outcomes (fully developed in deliverable 3.1 Draft Guideline of the AM MSc's Purposes and Strategies Alignment) are to be developed and shared by all partners and in alignment with the Master's Degree corresponding level in the relevant qualifications framework;

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AM MSc Learning Outcomes should also satisfy the requirements of the joint programme's (research) discipline(s) and the professional field of Metal Additive Manufacturing;

The MSc Council has the responsibility of ensuring that the developed learning outcomes is confirmed by alumni, employers, professional organisations and the Metal Additive Manufacturing sector;

For the purpose of the curriculum implementation, a common teaching and assessment methodology should be undertaken (which will be fully developed under WP3);

III Students

- The programme provides adequate services to students in order to facilitate mobility, the mobility model is clearly outlined, and all the necessary information shall be provided before (and on) arrival.
- The joint programme has a dedicated alumni network

Students Support Strategies will be fully developed in deliverable 3.2 Students' support strategies

IV Degree and diploma supplement

To be further developed in deliverable 2.3 Design Process' Draft Guideline

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Annex 3 - Final MSc Curriculum Guideline

To have a full overview of the final Metal AM MSc Curriculum which belongs to the International AM Qualification System please check the following document.



ADMIRE_Final MSc Curriculum_Guideline

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