



Erasmus Mundus Student Agreement Master of Science in Imaging and Light in Extended Reality (IMLEX)

The Consortium of Erasmus Mundus Japan - Master of Science in Imaging and Light in Extended Reality, IMLEX (hereinafter the Consortium), represented by University of Eastern Finland, the Coordinator,

of the one part and

First name(s): _____

Family name: _____

Passport or ID card number: _____

Date of birth: ___/___/_____ (please fill in order of: day, month, year)

Nationality: _____

Country of Residence: _____

Address in home country: _____

the student, of the other part

HAVE AGREED with the following terms and conditions.

Words beginning with a capital letter shall have the meaning defined either herein or in the Erasmus+ Programme Guide Version 2 (2019): 15/01/2019

1 IMLEX CURRICULA

- 1.1 The student hereby commits to accept the study place in the Master of Science in Imaging and Light in Extended Reality, IMLEX (hereinafter IMLEX).
- 1.2 The student commits to pay the Student Union of the University of Eastern Finland's yearly membership fee during the first academic year as required by Finnish law, see more on <https://www.isyy.fi/en/services/membership/degree-students.html>
This enables the student to have access to student health care and to be eligible for numerous discounts in student restaurants and in travel in Finland.
- 1.3 The student commits to complete at least 120 ECTS during the two-year programme and to take part in the IMLEX study modules offered by the IMLEX partner universities according to a study plan that shall be approved by the IMLEX Coordinating Institution on behalf of the Consortium of four universities. The study plan will be constructed in a way that the student can obtain at least 60 ECTS during the first academic year, which is a prerequisite for continuing the studies during the second academic year. The student shall graduate by the end of the semester 4.

- 1.4 IMLEX curriculum consists of the following studies:

SEMESTER 1: UNIVERSITY OF EASTERN FINLAND

Core courses for all students ECTS credits

| | |
|---|---|
| Photonics and Optics Fundamentals | 4 |
| Design and Analysis of Algorithms | 4 |
| Robotics and XR | 4 |
| Physical Optics | 4 |
| Eye Tracking | 4 |
| English or Japanese or national language course | 2 |

Track specific courses

| Lighting track | ECTS credits | Computational Imaging track | ECTS credits |
|------------------------------------|--------------|-----------------------------|--------------|
| Mathematical Methods for Photonics | 4 | Color Science | 4 |
| Applications of Photonics | 4 | Advanced Spectral Imaging | 4 |

SEMESTER 2: LIGHTING TRACK, KU LEUVEN

| Core courses | ECTS credits |
|---|--------------|
| Lighting Science | 6 |
| Lighting Technology | 6 |
| Lighting Metrology | 3 |
| Lighting Design | 6 |
| Lighting Business | 6 |
| English or Japanese or national language course | 3 |

SEMESTER 2: COMPUTATIONAL IMAGING TRACK, UNIVERSITY JEAN MONNET

| Core courses | ECTS credits |
|---|--------------|
| Real-time 3D Visualization | 5 |
| Real-time processing of Conventional/ Non-Conventional Image with GPU | 5 |
| Complex Computer Rendering Methods in Real Time | 6 |
| Machine Learning: Fundamentals and Algorithms | 5 |
| Deep Learning and Computer Vision | 6 |
| English or Japanese or national language course | 3 |

SEMESTER 3: TOYOHASHI UNIVERSITY OF TECHNOLOGY**Track specific courses**

| Lighting track | ECTS credits | Computational Imaging track | ECTS credits |
|------------------------------|--------------|--|--------------|
| Human Sensation & Perception | 4 | 3D Vision Computation | 4 |
| X Reality and Psychology | 4 | Robotic Perception and Human-robot Interaction | 4 |

| Core courses for all students | ECTS credits |
|--|--------------|
| Data Science and Analysis | 4 |
| Advanced Research Methods | 6 |
| Japanese Culture and Society | 4 |
| Case Study in Imaging and Light and XR | 6 |
| Japanese Industrial Technologies and Innovations | 2 |

SEMESTER 4: Master's Thesis, 30 ECTS

- 1.5 The student must regularly attend to the above mentioned studies, and if required complete assignments and participate in examinations and seminars. The examination procedures and evaluation criteria are described separately in the Academic Study Guide. The evaluation of the courses is based on ECTS (A–F, 5 – 0). The Master's Thesis will be evaluated by two academics from two IMLEX partner universities, and graded with ECTS grading (A – F, 5 – 0). Each Student must defend their Master's Thesis at the Toyohashi University of Technology. The defense will take place in August in the end of the semester 4, and the student needs to be physically in Toyohashi, Japan, for the defense.

Grading scale of IMLEX Full Partner universities

| ECTS | | UEF | TUT | KU Leuven | UJM | % of marks/points (if applicable) |
|------|--------------|-----|----------------|------------------|------------------|-----------------------------------|
| A | excellent | 5 | S (excellent) | $x \geq 18$ | $x \geq 18$ | $90 \leq X < 100$ |
| B | very good | 4 | A (very good) | $16 \leq X < 18$ | $16 \leq X < 18$ | $80 \leq X < 90$ |
| C | good | 3 | B (good) | $14 \leq X < 16$ | $14 \leq X < 16$ | $70 \leq X < 80$ |
| D | satisfactory | 2 | C (sufficient) | $12 \leq X < 14$ | $12 \leq X < 14$ | $60 \leq X < 70$ |
| E | surfficient | 1 | D (fail) | $10 \leq X < 12$ | $10 \leq X < 12$ | $50 \leq X < 60$ |
| FX | fail | 0 | D (fail) | $8 \leq X < 10$ | $8 \leq X < 10$ | $40 \leq X < 50$ |
| F | fail | 0 | D (fail) | $X < 8$ | $X < 8$ | $0 \leq X < 40$ |

- 1.6 In case of failing to attend to the studies of the IMLEX
- that the student cannot justify with medical certificates, or
 - for which permission has not been granted by the IMLEX secretariat (to ensure the permission, the student must ask in advance), or
 - failing to earn 60 ECTS during the first academic year, or
 - becoming the subject of disciplinary measures leading to exclusion from the IMLEX, or
 - becoming the subject of legal prosecutions that prevent student from attending the IMLEX, or
 - withdrawing from the IMLEX of his/her free will or by "force majeure",
- the student must give a written notice to the IMLEX Academic and Management Board without a delay. If the written notice is not given in reasonable time the student shall be expelled from the IMLEX without further notice from the Consortium.
- 1.7 In a case of pregnancy, the student is entitled to a maternity leave. The length of the maternity leave, as well as the rearrangements concerning the study curriculum and possible scholarship payment schedule, must always be negotiated in advance with the IMLEX Coordinating Institution.
- 1.8 Throughout the studies, it is the responsibility of the student to keep his/her contact information updated in the student register of the University of Eastern Finland (WebOodi).
- 1.9 The student gives IMLEX partner universities a permission to share information within the consortium on study records and other information that is relevant for following student's study performance and participation in teaching.
- 1.10 Student must follow all aspects of academic ethics.
- 1.11 Each hosting university will follow their procedure and schedule of offering re-sit sessions for the course exams. The student will be offered at least one re-sit possibility, in case of a failed course or an unsatisfactory course grade.
- 1.12 In addition to the above-mentioned explicit stipulations, student is required to follow the general rules of the hosting IMLEX university, which apply to all students and staff therein.

2 ERASMUS MUNDUS STUDENT SCHOLARSHIP

- 2.1 If the student has been granted with Erasmus Mundus scholarship (EMJMD scholarship), the student accepts to receive this scholarship from the European Commission. The scholarship over the two-year programme consists of

| | student from Partner country | student from Programme country |
|--------------------------------|------------------------------|--------------------------------|
| Participation costs/ two years | 16 000 e | 8 000 e |
| Subsistence costs (max. total) | 24 000 e | 24 000 e |

In addition, the following travel and installation costs are differentiated by the place of origin of the scholarship holders, i.e.

- 1000 e per year per scholarship holder resident in a Programme Country for travel costs
- 2000 e per year for travel costs for scholarship holder resident in a Partner Country, whose location is situated at less than 4.000 km from the EMJMD coordinating HEI +1000 e for installation costs (once only)
- 3000 e per year for travel costs for scholarship holder resident in a Partner Country, whose location is situated at 4.000 km or more from the EMJMD coordinating HEI +1000 e for installation costs (once only)

NOTE:

Contribution to subsistence costs is not awarded to scholarship holders for the course periods (study /research /placement /thesis preparation) spent in their country of residence.

- 2.2 The EMJMD scholarships shall be paid to the student's personal bank account in a European Country. The tentative pay schedule for the scholarship is as follows:

The contribution to travel costs is to be paid in two equal instalments in September 2020 and September 2021 (altogether; 2,000; 4,000 or 6,000 e)

The contribution to installation costs will be paid in September 2020 (1,000 e only for Partner Country residents).

Participation costs are paid to the student on a semester basis in the beginning of each semester. Students who are EMJMD scholarship holders do not have to pay directly Participation Costs, providing that they agree, by signature of this agreement, to allow the Coordinating Institution to directly deduct due Consortium payments from the corresponding EMJMD Participation Cost component.

The contribution to subsistence costs (i.e. monthly allowances of 1,000 euro), are to be paid up to 24 months maximum (from September 2020 to August 2022 on the last day of the previous month. However, the first instalment for September 2020 will not be paid before the Student has arrived in Joensuu and filled in a Grant Payment Form and provided the name of a Finnish/European bank, BIC number and an IBAN account number, where to the scholarship is paid to). The scholarship is not paid in cash.

- 2.3 The Consortium reserves the right to change the pay schedule.
- 2.4 The student must primarily use the EMJMD scholarship to cover expenses that are directly related to performing

the IMLEX studies. Such expenses are e.g. course material, student union fees, residential costs, daily living costs and travel costs.

- 2.5 A prerequisite for receiving the EMJMD scholarship are progress in studies according to the study plan (and paying the consortium fees in due time, if applicable). In case of cancellation or discontinuing the IMLEX or deviating from the personal study plan, the student agrees to pay back parts or the total amount of the scholarship.
- 2.6 The EMJMD scholarship can only be paid to the student while he/she is studying. The scholarship cannot be paid to the student while he/she is on a maternity leave or sick leave.
- 2.7 The EMJMD scholarship holders must spend their studies/research periods in the appropriate Programme/Partner Countries represented in the Consortium. Any exception to this obligation must be approved beforehand by the IMLEX Academic and Management Board.
- 2.8 The EMJMD scholarship holder declares not to have already benefited from a previous EMJMD scholarship or an Erasmus Mundus Master Course/Joint Doctorate scholarship. The EMJMD scholarship holder commits not to benefit from another EU funded scholarship scheme to follow the same EMJMD-IUEP course for the entire period of the course. The financial support shall be repaid by the scholarship holder in case of fraud or false declaration.
- 2.9 The student holding an EMJMD scholarship is allowed to have an occupation with a regular salary in parallel to the studies under the IMLEX if it is in line with the national legislation of the country/ies concerned (ie. the visa or residence permit allows it) and if the scholarship holder can dedicate the necessary efforts to the IMLEX programme's mandatory activities in order to complete the studies successfully in the agreed time.
- 2.10 The EMJMD scholarship does not create or entitle an employer-employee relation between the University of Eastern Finland and the student.
- 2.11 If the student is not able to successfully finish her/his studies by the end of second academic year (exact timing depends on the second year host university), the Consortium is not obliged to provide additional scholarships or other benefits.

3 CONSORTIUM FEE PAYMENTS

- 3.1 The student understands that the consortium fees are administered and used by the Consortium to provide the student tuition and insurance within the IMLEX. The consortium fee does not cover costs such as course material, student union fees, residential costs, daily living costs, travel costs, additional fees related to the field activities, or participation in the courses that are not included in the study plan.
- 3.2 The consortium fee is 8 000 euro / two years for students coming from Erasmus+ Programme countries. The consortium fee is 16 000 euro / two years for students coming from Erasmus+ Partner countries. Erasmus+ Programme Countries are EU countries and the former Yugoslav Republic of Macedonia, Iceland, Liechtenstein, Norway and Turkey. Erasmus+ Partner Countries include all other countries except the countries listed above.
- 3.3 The consortium fee is payable to the Consortium's bank account in four instalments on semestrial basis for each academic semester in advance by the due dates set by the Consortium. Students who are EMJMD scholarship holders do not have to pay directly Participation Costs, providing that they agree, by signature of this agreement, to allow the Coordinating Institution to directly deduct due Consortium Payments from the corresponding EMJMD Participation Cost component.
- 3.4 Paying the consortium fees in due time are prerequisites for participating in the IMLEX. The student agrees to contact the IMLEX secretariat immediately, if he/she encounters any problems in fulfilling the obligations towards the Consortium.
- 3.5 Neglecting the consortium fee payments shall lead to the termination of the student status in the IMLEX and to cancellation of the EMJMD scholarship. No paid fees shall be refunded.
- 3.6 The IMLEX consortium may grant Consortium Scholarships for students who do not benefit from EMJMD scholarship. The Consortium Scholarship will cover the Consortium Fee, and is specified in the Letter of Admission of each Consortium Scholarship holder. The maximum period of the Consortium Scholarship (tuition waiver) is two years. If the Student has not completed a minimum of 60 ECTS during the first academic year (by 31/07/2021) according to the curriculum of the Programme, the tuition waiver for the second academic year will be cancelled.

4 INSURANCE

- 4.1 The Consortium pays a sufficient health and medical insurance for the students to carry out studies within the IMLEX. The insurance is provided to all EMJMD students (EMJMD scholarship holders, Consortium scholarship holders and self funded students) enrolled in the IMLEX.
- 4.2 The student is obliged to accept the provided insurance for the full duration of the two-year studies.
- 4.3 The Consortium universities are exonerated from any responsibility for accidents, illnesses, injuries, losses or damages to persons or goods resulting from the activities that are the object of the present agreement.

5 MANDATORY PARTICIPATION OF THE EMJMD STUDENTS SURVEYS/EVALUATIONS AND EMA

- 5.1 The student is obliged to participate in the surveys/evaluations directed to the students and to join Erasmus Mundus Students and Alumni Association (EMA, see <http://www.em-a.eu/>).

6 EMJMD DIPLOMA

6.1 The Consortium ensures that each student who has been accepted to the IMLEX and who has successfully completed her/his studies under this programme shall be awarded a multiple diploma. One of the diplomas is always awarded by the University of Eastern Finland (Master of Science, Computer Science), one by the Toyohashi University of Technology (Master of Engineering), whereas the third diploma is awarded by the Partner University that hosts the student during the semester 2: either University Jean Monnet (Master Optics, Image, Vision and Multimedia, track *Imaging and Light in Extended Reality*) or KU Leuven (Erasmus Mundus Japan – Master of Science in Imaging and Light in Extended Reality).

All the diplomas must be master's level degree certificates and officially recognised legal documents in at least one of the Consortium countries. In addition, each student who has been accepted to the IMLEX and who has successfully completed their studies under this programme shall receive a Diploma Supplement.

7 SERVICES TO THE STUDENTS

7.1 The partners of the Consortium: University of Eastern Finland, KU Leuven, University Jean Monnet, and Toyohashi University of Technology, are making all the needed measures in order to register a student according to the study path (planned and approved together with the coordinating and a Partner university) with full local student's rights and services. This is done in due time before the student starts the studies in the Partner university in question and study fees will be charged if applicable. Each hosting university will assign an Academic Advisor for the IMLEX students, to ensure full support in academic matters.

8 DISPUTE SETTLEMENTS

8.1 Any disputes arising under the terms of this agreement are to be solved primarily in a conciliatory manner by the student and the IMLEX secretariat. If the conciliation does not lead to a solution, the dispute shall be handled in the district court of Northern Savo (in Finnish: Pohjois-Savon käräjäoikeus).

This Agreement shall be governed by Finnish law.

9 SIGNATURES

I, the undersigned student, have read and understood the Student agreement

Date and place

Signature of the student

Date and place

Signature of the Head of the School of Computing
University of Eastern Finland