

European Masters Programme in Software Engineering



Having fulfilled all requirements foreseen by the study programme and after due examination

STUDENT'S NAME

born in **TOWN** on **DATE**

Has been jointly awarded the
Joint Master Degree

for the European Masters Programme in Software Engineering

The title id equivalent to

Laurea magistrale in Informatica in Italy, Classe delle Lauree n. LM 18 del D.M. n. 270/2004

Master of Science in Information Processing Science

Master of Science (M.Sc.) in Germany

European Master on Software Engineering

The present certificate is issued with all legal effects

Bozen- Bolzano, Oulu, Kaiserslautern, Madrid,

Date

Prof. XXX
Rector
Free University of Bozen-Bolzano

Prof. XXX
Rector
University of Oulu

Prof. XXX
Dean
Technische Universität Kaiserslautern

Prof. XXX
Dean
Universidad Politécnica de Madrid

Consortium Agreement
European Masters Programme in Software Engineering
By and between

Freie Universität Bozen - Libera Università di Bolzano,
P.za Università, 1
I-39100 - Bolzano, Italy
(hereinafter referred to as "FUB")

Technische Universität Kaiserslautern,
Gottlieb-Daimler-Straße 47
67663 Kaiserslautern, Germany
(hereinafter referred to as "UNIKL")

University of Oulu,
Pentti Kaiteran katu 1
FI-90570 Oulu, Finland
(hereinafter referred to as "UoO")

Universidad Politécnica de Madrid,
Av. Ramiro de Maeztu, 7
28040 Madrid, Spain
(hereinafter referred to as "UPM")

collectively referred as "Institutions" and when referred to as a common entity, representing EMSE, the term "Consortium" is used. Associate Partners and Advisory Boards of EMSE are from now on collectively referred to as "Task Force." The term master candidate and candidate is used interchangeably. "Scholarship holder" refers to a student that has a Consortium or Erasmus Mundus scholarship. "Self-paying student" is any other EMSE students.

This agreement concerns the participation and delivery of the European Masters Programme in Software Engineering (hereinafter referred to as EMSE), an integrated joint programme (*joint degree programme*) offered by the Institutions in cooperation with the Task Force. The programme offers a common curriculum, common study and examination regulations and a common internship programme.

Within EMSE the Institutions will offer an integrated study programme according to the constraints set out in the following paragraphs.

§1. Objectives

EMSE is a joint MSc programme offered by the Institutions with the objective of:

- Educating future software engineers to meet the requirements of today international software practice and research;
- Cooperating in students exchange according to the strategic vision and tactics of the Bologna framework. To this aim, the Institutions will mutually recognize study and exam achievements, the final grades following the agreed study schema and thesis co-supervision and according to the ECTS system;
- Exchanging scholars in order to foster the scientific collaboration, to further develop the curriculum and to share didactic and administrative experience.

§2. Admitting and host institution

FUB is the "admitting institution" to which students apply and enrol to the program. Institutions at which students are resident are "host institutions." Each student resides in at least two host institutions.

§3. Coordinating and Partner Institutions

With regard to the Erasmus Mundus framework agreement, as required by the European Commission, FUB shall be referred to as "Co-ordinator." The other institutions are referred to as "Partners." All Institutions will proactively collaborate to guarantee a successful coordination process.

§4. Governing bodies

The EMSE programme is governed by two cooperating bodies: the Joint Board and the Task Force.

§4.1 Joint Board

The Consortium sets up a Joint Board. Each partner shall appoint one member. Every partner has one vote. The Joint Board meets at least twice a year out of which one physically at FUB. Any partner can call for an extra meeting. The meetings can be physical or by video conferencing. The quorum consists of the attendance of at least one commission member from each partner.

The Board is ultimately responsible for all tasks implied by this agreement, and aims at running a successful joint degree program. Among these, the following tasks are included:

- Govern the Consortium and its changes;
- Define and change EMSE regulations;
- Determine and manage tuition fees;
- Selection and placement of candidates;
- Define and update the EMSE curriculum;
- Ensure the quality of the program, its further development, and its implementation;
- Report to all participating institutions;
- Manage additional third party funds;
- Administer joint funds raised by the partners for the purpose of the joint degree program;
- Student advising and complaints management;

- Partner dispute resolutions;
- Invite and select scholars.

The Joint Board is to be consulted if any partner intends to change their part of the EMSE study program; whether due to local regulations, or national law and regulations.

Public decisions will be announced at the official Consortium's website. All partners agree to observe those decisions.

The Joint Board shall work in strict collaboration with the Task Force and commits to explore new opportunities for the development of EMSE. The Joint Board and the Task Force collaborate for sustaining and developing the programme.

§4.2 Task Force

The Task Force includes all the Institutions and a representative of each of advisory boards, companies, and research centres. Representatives are selected by their experience with EMSE and with industrial environment. The Task Force meets at least one time per year. The meeting can be physical or virtual and it is independent from the Joint Board meetings.

The Task Force works in strict collaboration with the Joint Board and commits to explore new opportunities for the development of EMSE.

The major activities of the Task Force are

- Fund rising
- EMSE marketing
- Curriculum synchronization with industry, ICT market, and research
- Management of the Internship Programme (Companies inclusion or exclusion, Students evaluation, quality monitoring)

The Task Force advises the Joint Board on new directions for the employability of the EMSE students whereas the Joint Board reports to the Task Force of the actual learning outcome and statistics on students' performance.

The Task Force evaluates the curriculum quality and the students learning outcome in terms of the employability of the students in industry and research.

§4.3 Staff management

Each Institution will have one local administrative Co-ordinator and one academic representative. FUB will have a project manager and an academic Co-ordinator. Local offices will form an administrative network grouped by competence (e.g., group of international relation offices). The project manager will be responsible of coordinating the overall network acting also as reference point for students and scholars of EMSE.

The academic Co-ordinator will be the representative of the Joint Board for the Erasmus Mundus offices and in any other occasion in which EMSE programme needs to be represented by one person.

Each Institution shall, at its own expenses, compensate their own resources employed for the programme and assume no responsibility for the compensation of the other Institutions' resources.

§5. Official web site of the Consortium

The official Consortium website is <http://emse.inf.unibz.it>.

§6. Structure of the Joint programme

EMSE is a programme of two years through the achievement of 120 ECTS. Students gain 60 ECTS at each host institution according to their mobility schema (see §6.1). Additionally, students gain 4 ECTS for local language or culture courses. At each institution, a tutor advises EMSE students on their learning path (see §6.1).

The joint curriculum is structured in knowledge areas: core areas, Partner-specific topic in software engineering, empirical software engineering research, transversal skills, an internship, and a master thesis. A learning path includes all the knowledge areas in Figure 1 distributed over a learning mobility schema (see §6.1). Learning paths with the exact definition of the subjects and ECTS taught in each of areas are publicly available at the EMSE web site. Additionally, each year, students gain 2 ECTS in language or culture of the country in which they reside.

Core areas are taught during the first year in each learning path. Empirical software engineering research topics can be taught in any of first three semesters. Partner-specific software engineering topics and transversal skills are taught during the first three semesters. All students must complete an internship during their third semester. The thesis work is performed in the fourth semester.

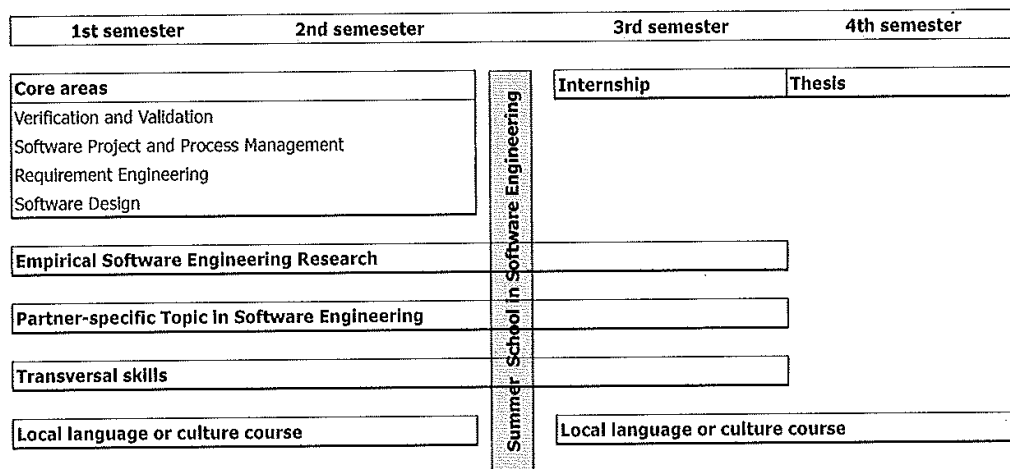


Figure 1: The EMSE curriculum.

At the end of the first year, students attend a Summer school in Software Engineering offered by the Consortium. The attendance is optional for self-paying students and compulsory for scholarship holders. No fee is charged for the school. Optionally, students can also be selected to attend the school a second time at the end of their second year. Upon request of the student, the Joint Board decides whether the student can attend the school a second time.

Institutions accept study credits and study achievements of students on the basis of the grades obtained in each of the core areas, Partner-specific topic in software engineering, empirical software engineering research topics, and master thesis. Institutions can accept study achievements at course level if the two tutors agree (see §6.1).

§6.1 Mobility schema

The mobility schema foresees one year (60 ECTS) in each of two Institutions of the Consortium.

The host Institution of the first year ("First Institution") is responsible to welcome the new students and provide all the services needed for the students' entrance in Europe and for the local admission procedure. The First Institution will also transmit the students' transcript of records to the Second Institution and control of fulfilment of the EMSE mobility rule.

The host Institution of the second year ("Second Institution") is responsible to welcome and provide all the services for the local admission procedures. The Second Institution will also support students in the procedure of thesis submission and defence (see §11).

Learning paths for every pair of Institutions are available for each possible mobility schema, (i.e., for Institution A and Institution B, the Consortium offers the learning paths (A,B) and (B,A)). In addition, students may visit one of the associate partners for their internship or thesis work. Students are jointly monitored by two tutors, one from each of their host Institutions.

§6.1.1 Mobility rule

Students can move to the second-year Institution only if they gain 52-60 ECTS at the first host Institution by the beginning of the academic year of the Second Institution. The Join Board will decide to expel the students that do not achieve the 52 credits. Such students exit the EMSE programme and can finish their master studies in the local master programme of the first-year host institution.

Scholarship holders shall attend the annual summer school on software engineering at the end of their first year (see §6). The Join Board will decide to expel those students who do not attend the school. Such students exit the EMSE programme and can finish their master studies in the local master programme of the first-year host Institution.

§7. Participation to the Programme

§7.1 Prerequisites for Participation

All students intending to study in EMSE programme must apply through the on-line portal of EMSE <http://emse.case.unibz.it/submissions/index.php>. Yearly, the Joint Board decides the deadlines for application (see §4.1).

§7.2 Application

A complete description of the application procedure (highlighting the application deadline) is publicly available at the website <http://emse.case.unibz.it/>.

The application tool is on line at <http://emse.case.unibz.it/submissions/index.php> and it is also reachable from the EMSE official Consortium web site.

The application requires the following data: personal information, short curriculum vitae, entrance qualification (BSc on Software Engineering, Computer Science or equivalent degree), proof of proficiency in English language, other degrees (either on computer science and other disciplines), preferred mobility scheme and issues related to the Erasmus Mundus scholarship or any other scholarship offered by the EMSE Consortium.

Some of the requested data should be supported by the appropriate documents. They are:

- Copy of the applicant's passport.
- Copy of the entrance qualification (BSc on Computer Science or comparable degree).
- Copy of the certificate of proficiency in English language.
- Copies of other degrees (either on computer science or other disciplines) if available.

Due to restrictions placed by the partner universities, the following items will also be requested:

- The BSc on Computer Science (entrance qualification) should be legalised by The Hague Apostille Stamp to verify its authenticity.
- A certification of the subjects taken by the applicants during their degrees (BSc on Computer Science), along with the marks obtained and the number of hours/credits devoted to each subject.

§7.3 Information about scholarships

The website <http://emse.inf.unibz.it> contains information about any scholarship offered by the Consortium, including the eligibility of applicants and the application procedure.

§7.4 Eligibility criteria for admission

The eligibility criteria to participate to EMSE are:

- Respect the application deadline.
- Provide proof of proficiency in English language: The EMSE requests TOEFL (> 550/213), IELTS (> 6.0) or equivalent certificates. Providing an English certificate is encouraged. In exceptional cases, the consortium will conditionally accept a personal interview (face to face or videoconference) to assess the level of proficiency instead of the certificate. Applicants accepted using this procedure should obtain the TOEFL or equivalent certificate while enrolled in the master.
- Have been awarded a BSc on Software Engineering, Computer Science, Computer Engineering, or comparable degrees. Special cases of applicants with different but related Bachelor degrees need to explicitly state in the application and contact the consortium. Degrees should have been legalized by means of the Hague Apostille Stamp.
- Provide certificate of the subjects taken during their degrees, along with the marks obtained and the number of hours/credits devoted to each subject (i.e., Transcript of Records).

§7.5 Application deadlines

There are two admission sessions. Applicants for Erasmus Mundus Scholarships, other scholarships that require it, or applications that need to undergo a visa process must apply by the first deadline, (December 31st, if not otherwise announced).

§7.6 Submission procedure

The submission procedure is completely described in the official Consortium web site.

Applicants apply on line by the deadline (first and second deadline). Applicants should fill out the application form and enclose the required documents. Required documents will be accepted after the deadline, provided that all administrative decisions will be conditional until complete documentation is submitted. All enclosed documents will be accepted in digital (scanned) form. English will be the language used in all administrative procedures.

§7.7 Receipt of applications

Interested people can contact any partner university to get information about the EMSE programme. Applicants also get information in the website <http://emse.case.unibz.it/> and write an email to the emse-secretariat@unibz.it.

Applicants fill and submit the on-line application form uploading all the needed documents in the web portal <http://emse.case.unibz.it/submissions/index.php>.

The Co-ordinator receives all the application forms and checks the formal criteria for admission. All Institutions have access to the form and the uploaded documents through the web portal.

Any administrative decision taken on the basis of the information provided by the applicant in the application form, but without a supporting document, will be conditionally accepted upon the presentation of the corresponding documentation. Such documentation will be requested in the acceptance letter, along with a deadline to provide it. Deadlines will be stated on a case-by-case basis.

§7.8 Check of respect of formal criteria for all applications

The online portal automatically warns applicants of missing documents. In addition, before the admission deadline, the project co-ordinator checks whether all appropriate documents have been attached to the application form.

The project co-ordinator checks whether the absence of some documents is justified. If not justified, the project co-ordinator contacts applicants to request them.

In case in which applicants do not provide a certificate of English proficiency, the project co-ordinator asks the Consortium whether applicants will be waived. For those waived applicants, the Consortium will carry out a personal interview to assess the level of English proficiency.

The project co-ordinator will check whether applicants have provided a copy of the passport, as a proof of nationality.

In case of Erasmus Mundus award, the project manager will check the applications, to ensure that applicants have signed that they comply the requirements of Erasmus Mundus framework.

§8. Selection

The selection will be performed in compliance with the European Charter of Researchers and the Code of Conduct for the Recruitment of Researchers

(<http://ec.europa.eu/euraxess/index.cfm/rights/europeanCharter> and <http://ec.europa.eu/euraxess/index.cfm/rights/codeOfConduct>).

§8.1 Timing:

By the first submission deadline:

- Formal admission criteria check will be finished within 7 days. Nevertheless, all received applications will be checked as they are received, to ensure completeness and ask applicants for missing information.
- Selection of applicants will be performed within next 15 days.

By the second deadline

- Formal admission criteria check will be finished within 7 days. Nevertheless, all received applications will be checked as they are received, to ensure completeness and ask applicants for missing information.
- Selection of applicants will be performed within next 15 days.
- Selection of applicants will be performed no later than July 31st.

§8.2 Qualitative selection criteria

Applicants will be scored according to:

- Language skills: They will be qualified as either acceptable or non-acceptable.
- Type of entrance qualification. They will be ranked for relation with the Software Engineering discipline
- Study results: They are calculated as a weighted average of the marks obtained on every degree subject
- Work experience and professional qualifications: Only experience in software-related tasks (including education) will be considered.
- Motivation and willingness: Candidates will be ranked according to their interest in undertaking studies in the software engineering field, and according to their interest in the EMSE programme in particular.

Each criterion is assigned a weight so that the minimum score is 0 and the maximum 100 points. Weights and voting scale are defined in the admission and selection EMSE regulation.

In addition to those weights, the study results are further weighted using the ranking of the university where the student got his degree as parameter. The use of the university ranking is intended to correct the distortion in the selection procedure caused by the high qualifications that typically have students coming from non-demanding, low-quality universities. Those students have better scores than students from high-ranking universities where courses are harder to pass. Without this second weighting, those students would have more chances to being admitted or even to be proposed for a scholarship.

§8.3 Selection procedure

The project manager will make available to the Consortium the submitted applications along with the related documentation. For each applicant, assessments will be performed by the project manager and revised by members of the Joint Board. In case it is needed the Joint Board appoints a Selection Committee to perform the selection evaluation. The Selection Committee must include an academic representative of all the Institutions. Divergence is managed by consensus between involved parties. To finish the assessment process, every member of the Joint Board should formally approve the assessments.

The Joint Board will promote equal opportunity as stated in the European Charter for Researchers..

For each learning path an equal number of places are assigned. Yearly, the Joint Board decides the total number of places. The Joint Board will check and formally approve the ranked list. Once approved, available places will be filled sequentially using the ranked list.

§9. Enrolment procedure

Admitted students register to EMSE directly at FUB. Yearly, the Joint Board decides the registration deadlines.

FUB provides admitted students with official letters of acceptance to the programme and transmits the list of registered students and their learning paths to the corresponding Institutions well in time to proceed with the local admittance procedure.

At registration deadlines, FUB collects the first instalment of the EMSE tuition fee (see §13). There are two registration deadlines corresponding with the two application sessions.

Each institution is responsible to follow students with the enrolment in its local information system and ensure that students provide the necessary documents for the enrolment in the local system.

Each partner institution will also render assistance to the incoming students for visa application, finding appropriate accommodation and legalising their residence status in the corresponding country.

§10. Principle of participation for students

Students participating in the programme under the term of this agreement will be subject to the following principles:

- Students will be responsible for covering all costs such as travel costs, living costs during the stay (including accommodation, books, equipment, consumables, study fees, and student union fees) and other expenses.
- Students must have purchased a health insurance policy in the country where they attend courses.
- Students participating under this agreement shall be subject to the rules and regulations of the host institution during the entire duration of their stay. They will also have the rights and duties enjoyed by other students enrolled at the host institution.
- Students participating under this agreement shall be subject to the rules and regulations of the Consortium during the entire duration of their stay. Those rules are specified in the official Consortium website. All students have the same rights and duties regardless of where they study.

§11. Conferral of the Degree

All students of EMSE study one year at each of two universities of the Consortium following the learning path and its mobility schema chosen in their application (see §6 and §6.1).

Institutions shall recognize automatically the credits gained by students at other partners according to their learning path.

Students may perform their thesis work or Internship at any of the Programme or Partner countries. In case the students perform these activities at the Partner countries, they have to submit their request to the Joint Board no later than three months before the commencement of the Internship or thesis. The initiation, development, and submission of the thesis must follow the EMSE master thesis regulation.

The master thesis is submitted and defended at the Second Institution. The thesis is co-supervised by two teachers of universities that hosted the student and eventually in addition co-supervised by a representative of the associated partner at which the student has further performed the thesis work. All supervisors are invited as members of the defence commission.

Students having successfully passed all requirements of the joint programme will be awarded a double degree from the two full institutions of the Consortium.

A joint degree will be issued as soon as all partners have defined their internal procedures. In this case, the thesis will be defended in front of a joint jury.

In any case, the degree will correspond to the Italian "Laurea Magistrale in Informatica," the German degree "Master of Science," the Finnish "Filosofian maisteri, pääaine tietojenkäsittelytiede," and the Spanish "Máster Universitario en Ingeniería del Software – European Master on Software Engineering."

§12. Exchange of Scholars

The Partners intend to foster the exchange of lecturers and researchers aiming at cross-fertilization in teaching through research. Scholars are selected by their expertise in the field of Software Engineering or in disciplines that have direct impact on the research and didactics in Software Engineering.

Scholars must stay between a min of two and a max of eight weeks if not otherwise decided by the Joint Board. Scholars must bring concrete added value to the delivery of EMSE programme (teaching, research, promotion activities...). Each European or third-country scholar must come from different higher education institutions. Anyway, a maximum of three months (6 times two weeks) can be used per scholar or for different scholars from the SAME institution. Scholars must sign a contract and a report to the Co-ordinator within three weeks after the end of the stay. The payment of monthly instalments will start after receipt of a copy of the tickets and the signed contract but at the earliest one week before the beginning of the stay.

Selection rules:

- In case of Erasmus Mundus award, scholarship are provided according to the Erasmus Mundus framework
- Institutions must send their proposals related to scholar's invitations to FUB by May every year and at least three months in advance of the commencement of the visit.

§13. Students' Participation Costs and Tuition Fees

There is a common fee for studying in the EMSE programme. Yearly, the Joint Board decides the exact amount. The Co-ordinator collects the common fee.

For the first year students: a portion of the total amount ("First Instalment") is collected when students register to the programme (see §9). The reminder ("Second Instalment") is collected at the beginning of the EMSE academic year. Yearly, the Joint Board decides the amount of the two portions.

For the second year student: the Co-ordinator collects the whole tuition fee (First plus Second Instalment) at the beginning of the academic year.

The fee includes any local costs that students must afford to participate in the programme such as local tuition fee, social taxes, and insurance, and participation to the Software Engineering Summer School. The fee also comprises additional costs arising from the management of students in the EMSE programme such as scholarship management, financial management, dedicated insurance procedure management, management of students' records and study within the Consortium, internship placements, EMSE advertisement and marketing etc.

One month after the beginning of the academic year, the Co-ordinator distributes the Second Instalment of the first and second year students to the Institutions. In case it is needed and upon decision of the Joint Board, the Co-ordinator can compensate for eventual reimbursement of eligible costs (e.g., students have erroneously paid the tuition fee at the Partner). The coordinator keeps the First Instalment of all the students. This amount will constitute a financial reserve used to cover unbudgeted costs of the co-ordinator (cost for the project manager, insurance unexpected costs, etc). In the annual meeting, the co-ordinator reports the financial balance to the Joint Board.

Eventually, remaining money at each Partner will be used for EMSE related activities and support.

§14. Budget, development, and sustainability plan

In the annual meeting, the Joint Board, establishes the budget for the next edition by allocating funds for scholarship, mobilizing private funds and revising the participation costs if needed. In its annual meeting, the Task Force revises the strategy of fund rising, new members of the "Become a Partner" campaign, and the Internship Program. The Task Force report is periodically reported to the Joint Board.

In case of Erasmus Mundus award, the lump sum of the participation year (2014-2015) is retained by the co-ordinator and used to partially cover the cost of a project manager (13,000 Euro) and to cover Consortium expenses for Joint Board and Task Force meetings, advertisements and events to announce the programme(7000 Euro). The lump sum per edition (50000 euro) of the three following editions is retained by the coordinator to cover the cost of a project manager (about 35,000 Euro) and the costs of scholars (at least 4 per edition for at least 8 weeks in total per edition, about 10000 Euro) as described in the following table.

	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	Total
Lump sum	20,000	50000			50000	170,000
			50000			
Project manager	13,000	35000	5000+30000	10000+25000	15000	-133,000
Scholars		10000		10000	10000	-30,000
Travel and events	7000					-7,000
Balance						0

The funds allocated to scholars are retained by the co-ordinator, but assigned to the Institutions in equal parts (about 2500 Euro each Institution per edition) except the Joint Board decides to distribute them otherwise.

Every year, the Joint board defines the amount and the procedure to reimburse travel and participation expenses of students for the Summer School in Empirical Software Engineering. In the yearly meetings, the Joint Board also reviews the development and sustainability plan for the next three editions.

§14.1 Mobility under the Erasmus Charter For Higher Education (ECHE)

The Institutions are additionally signing mobility, bilateral agreements under the ECHE charter. The agreement allows to support students with no other mobility scholarships and to further attract good students.

§15. Financial obligations

Any financial undertakings that will arise during the performance of the present agreement must be specified, negotiated, and regulated by the Consortium on a case-to-case basis. This does not include guarantees for any financial contribution from any of the partners, but guarantees their proactive participation in the implementation and performance of the joint program.

§16. Entry into force and duration

This agreement will come into force from the academic year after the date of the signature of the parties and will be valid for the entire duration of the Erasmus Mundus charter. The first intake (students and scholars) will start in the academic year 2015-2016.

It shall be renewable and modifiable by mutual agreement of the Partner institutions. All changes and modifications shall be done in writing and shall be signed by the authorised representatives of each Partner.

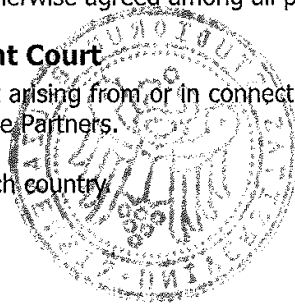
Any party may withdraw from this agreement for any forthcoming edition of the EMSE by providing written communication to other partners at least 6 months before the forthcoming edition is launched.

For any edition already launched, or started, all partners are committed to continue with that master edition until its conclusion, if not otherwise agreed among all partners.

§17. Applicable law and Competent Court

The settlement of any difference or conflict arising from or in connection with this agreement shall be attempted by an amicable effort from the Partners.

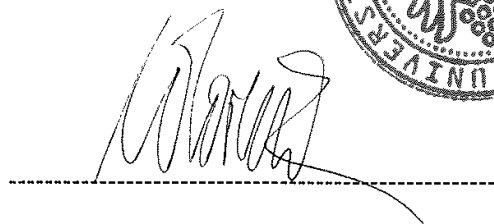
The EMSE follows national legislation in each country.



Date: 25.03.2019

Signatures and stamps:

Bozen-Bolzano,

A handwritten signature in black ink, appearing to read "W. Lorenz", is written over a horizontal dashed line.

Prof. Walter A. Lorenz
Rector

Freie Universität Bozen - Libera Università di Bolzano

Oulu,

24-03-2014

A handwritten signature in blue ink, appearing to read 'Lauri Lajunen', written over a horizontal dashed line.

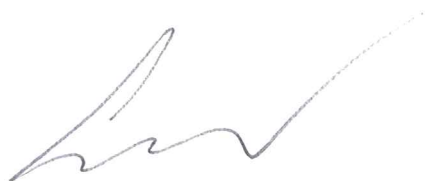
Prof. Lauri Lajunen
Rector

University of Oulu



Kaiserslautern, 27.3.2014

x



Univ.-Prof. Dr. rer. nat. Helmut J. Schmidt
Präsident

Technische Universität Kaiserslautern

Madrid, March 21st 2014



Prof. Carlos Conde Lázaro
Rector

Universidad Politécnica de Madrid *

* Power of signature delegation enclosed



CAMPUS
DE EXCELENCIA
INTERNACIONAL

REGISTRO UPM (RECTORADO A)
SALIDA
Nº. 201200018353 20/06/2012 10:53:51

UNIVERSIDAD
POLITÉCNICA DE MADRID
RECTORADO · EDIFICIO A
Ramiro de Maeztu, 7
28040 Madrid

DELEGATION OF POWER TO SIGN, SEAL AND DELIVER CONTRACTS ON BEHALF OF UNIVERSIDAD POLITÉCNICA DE MADRID UNDER THE FUNDING PROGRAMMES OF THE EUROPEAN UNION AS INCATED BELOW

Professor, Carlos Conde Lázaro, Rector Magnificus of Universidad Politécnica de Madrid (UPM) ¹, fully empowered by the University Statutes² (Article 67.2) on behalf of and by UPM, here I

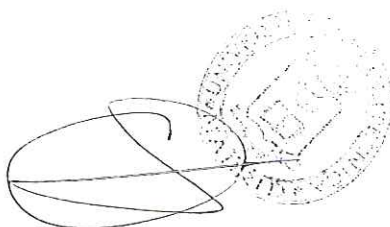
DELEGATE, TO THE Vice-Rector for International Relations, Professor José Manuel Páez Borrallo,

The power to sign, seal and deliver contracts, and every document related to their production and performance, under the following Funding Programmes of the European Union:

- Life-long Learning Program (LLP).
- European Programs.
- Erasmus Mundus.
- EU/USA cooperation.
- EU/Canada cooperation.
- China Cooperation.
- Cooperation Programmes

This delegation is produced according to article 16th of the Spanish Act Nº 30/1992 on Common Administrative Proceedings for the Public Administrations.

Madrid, May, 19th 2012



¹ Appointed Rector to the University by *Decreto* 60/2012, dated April 19th (Published at the Official Journal of Comunidad de Madrid on April, 27th 2012).

² Statutes passed by *Decreto* 74/2010, dated October 21th 2010 (Publised at the Official Journal of Comunidad de Madrid on November, 15th 2010)

Diploma Supplement



Freie Universität Bozen
Libera Università di Bolzano
Università Lìdia de Bulsan



UNIVERSITY of OULU
OULUN YLIOPISTO



POLITÉCNICA
"Engineering the future"



TECHNISCHE UNIVERSITÄT
KAISERSLAUTERN

European Masters Programme in Software Engineering

An integrated study programme distributed between the Libera Università di Bolzano-Freie Universität Bozen (FUB) (coordinator), the University of Oulu, (OY), the Technische Universität Kaiserslautern (UNIKL), and the Universidad Politécnica de Madrid (UPM)

Holder of the Qualification

Family Name

First Name

Date, Place, Country of Birth

Student ID Number or Passport Number

Qualification

Name of Qualification (full, abbreviated; in original language)
European Master Course in Software Engineering (EMSE)

Main Field(s) of Study
Software Engineering

Institutions Awarding the Qualification (in original language); Status (Type/Control)
1.
2.

Institutions Administering Studies; Status (Type/Control)
1.
2.

Language(s) of Instruction/Examination
English

Supplement

European Masters Course in Software Engineering

Level of Qualification

Level

Graduate joint degree with thesis

Official Length of Programme

Two years (120 ECTS)

Access Requirements

Bachelor Degree in Computer Science or equivalent; proof of a minimum knowledge of English such as a Toefl (> 550/213) or IELTS (> 6.0) certificate or equivalent.

Content and Results Gained

Mode of Study

Full time; three semester's course work; one semester master's thesis

Programme requirements

EMSE is a two-year programme (120 ECTS) completely taught in English. The EMSE programme is built on learning paths defined on annual exchange. Students take EMSE at any two institutions of the consortium (50% of ECTS in each institution).

The EMSE programme is based on core knowledge areas, empirical software engineering research, transversal skills, partner-specific topic in software engineering and an internship. Core areas are topics that cover foundations in SE and are taught in any mobility pattern of the programme: Software Process Management, Verification and Validation, Software Design, and Requirements Engineering. partner-specific topic in software engineering are topics peculiar to a student mobility pattern that reflect the local teaching offer and research. All partners offer a empirical software engineering research to prepare students to thesis work of 30 ECTS. Master thesis is co-supervised by two teachers of the host universities the student has visited. Students that successfully complete the program get a joint degree from the two universities that have visited.

This programme will provide students with skills that allow students to cope with their professional practice that will encompass a wide range of activities, including technical, problem-solving, management, ethical and legal issues, written and oral communication abilities and, very importantly, the capability to keep up to date in a rapidly changing discipline. In sum, students will gain a solid knowledge to be used as managers of different roles in software companies.

Supplement

European Masters Course in Software Engineering

Programme Details

Learning path: FUB- UNIKL

FUB				UNIKL			
ES	Topic	Title	ECTS	Topic	Title	ECTS	
1	SPPM	Software Process Management	8	VV	Safety & Reliability of Embedded systems	4	
	TS	Statistical Methods	4	PST	Performance modelling of distributed systems (A)	4	
	RE	Requirements and Design of Software Systems I	4	I	Internship	8	
	SD	Requirements and Design of Software Systems II	4	TS	Product line Engineering	4	
	PST	IT and Service Management	8	PST	Middleware for Heterogeneous and Distributed Information Systems	8	
				ESER	Software Engineering Seminar	4	
			semester	28			
					semester	32	
2	VV	Software Reliability and Testing	8	T	Thesis	30	
	ESER	Empirical Software Measurement	8				
	SPPM	Software Factory	8				
	PST	Advanced Internet Technologies	8				
			semester	32			
					semester	30	
			year	60			
					year	62	
Total						122	

Of which Subjects at the Associate Partner

Grading Scheme

ECTS	FX/F	E	D	C	B	A
UNIKL	5,0		4,0; 3,7	3,3; 3,0; 2,7	2,3; 2,0; 1,7	1,3; 1,0
FUB	Fail	18-20	21-25	26-28	29-30	30/30L

Overall Classification (ECTS)

Supplement

European Masters Course in Software Engineering

Function of the Qualification

Access to Further Studies

Students who pass the course are qualified to apply for admission to doctoral studies (Ph.D. thesis research in computer science)

Professional Status

Students who pass the course have gained the required capabilities to exercise as professional software engineers

Additional Information

Additional Information

Further Information

On the European Masters Course in Software Engineering website:
<http://emse.inf.unibz.it/>

Certification

Date of issuance

Place of issuance

Bolzano, (Italy)

Record No.

Signatures

The Registrar

The Coordinator
Barbara Russo

Diploma Supplement

European Masters Course in Software Engineering

INFORMATION ON THE ITALIAN EDUCATION SYSTEM (DM 509/99 and DM 270/2004)

Since 1999, Italian university studies have been fully reformed so as to meet the objectives of the "Bologna process". The university system is now organised on 3 cycles: the 1st cycle academic degree, that is the Laurea, grants access to the 2nd cycle, and the Laurea Specialistica/Magistrale, the main degree of the 2nd cycle, gives access to 3rd cycle doctorate programmes resulting in the degree called Dottorato di Ricerca. In addition to the mentioned degree sequence after the Bologna pattern, the system offers other degree programmes and related degrees both within the 2nd and 3rd cycle.

First cycle. Undergraduate studies consist exclusively in Corsi di Laurea-CL (1st degree courses) aimed at guaranteeing undergraduate students an adequate command of general scientific methods and contents as well as specific professional skills. General access requirement is the Italian school leaving qualification (Diploma di Superamento dell'Esame di Stato conclusivo dei corsi di Istruzione Secondaria Superiore), awarded on passing the relevant state examinations, after completion of 13 years of global schooling; also foreign comparable qualifications may be accepted. Admission to individual degree courses may be subject to specific course requirements. First degree courses last 3 years. The Laurea (L, 1st degree, and bachelor-level of the Bologna process) is awarded to undergraduates who have earned 180 ECTS credits. The L allows transition to the labour market, access to the civil service and/or regulated professions; it also grants access to all degree programmes of the 2nd cycle.

Second cycle. Postgraduate studies include A) Corsi di Laurea Specialistica/Corsi di Laurea Magistrale-CLS/CLM; B) Corsi di Master Universitario di 1° livello-CMU1.

A) CLS/CLM are aimed at providing postgraduates with an advanced level of education for the exercise of a highly qualified activity in specific areas. Access to CLS/CLM is by the Italian 1st degree (L) or a foreign comparable degree; admission is subject to specific course requirements determined by individual universities; workload: 120 ECTS credits; length: 2 years. The final degree, Laurea Specialistica/Magistrale-LS/LM (master-level of the Bologna process), is awarded to those graduates who, once satisfied all curricular requirements, have also defended an original dissertation in the final degree examination. The change of the degree name from Laurea Specialistica into Laurea Magistrale was agreed upon in 2004.

A limited number of 2nd cycle programmes, namely those leading to professions regulated by EU sectoral directives (in dentistry, human medicine, pharmacy, veterinary medicine, architecture), are defined "one long cycle degree programmes" (Corsi di Laurea Specialistica/ Magistrale a ciclo unico-CLSU/CLMU); they differ from the majority of usual CLS/CLM in the following characteristic features: access is by the Italian school leaving diploma or a foreign comparable qualification; admission is always subject to entrance exams; curricula consist of just one long cycle of 5-6 years (at present, only the CLSU/CLMU in human medicine takes 6 years), and a total number of 300-360 ECTS credits.

All LS/LM and LSU/LMU allow transition to the labour market, access to the civil service and/or regulated professions; they also grant access to research doctorate programmes as well as to all other degree courses of the 3rd cycle.

B) CMU1 consist in advanced scientific courses or higher continuing education studies, open to the holders of a Laurea-L or a foreign comparable degree; admission may be subject to additional conditions. Course length is min. 1 year. The degree Master Universitario di 1° livello-MU1 (1st level university master) is awarded to graduates who have

8. INFORMATION ON THE GERMAN HIGHER EDUCATION SYSTEM¹

8.1 Types of Institutions and Institutional Status

Higher education (HE) studies in Germany are offered at three types of Higher Education Institutions (HEI).²

- *Universitäten* (Universities) including various specialized institutions, offer the whole range of academic disciplines. In the German tradition, universities focus in particular on basic research so that advanced stages of study have mainly theoretical orientation and research-oriented components.

- *Fachhochschulen* (Universities of Applied Sciences) concentrate their study programmes in engineering and other technical disciplines, business-related studies, social work, and design areas. The common mission of applied research and development implies a distinct application-oriented focus and professional character of studies, which include integrated and supervised work assignments in industry, enterprises or other relevant institutions.

- *Kunst- und Musikhochschulen* (Universities of Art/Music) offer studies for artistic careers in fine arts, performing arts and music; in such fields as directing, production, writing in theatre, film, and other media; and in a variety of design areas, architecture, media and communication.

Higher Education Institutions are either state or state-recognized institutions. In their operations, including the organization of studies and the designation and award of degrees, they are both subject to higher education legislation.

8.4 Organization and Structure of Studies

The following programmes apply to all three types of institutions. Bachelor's and Master's study courses may be studied consecutively, at various higher education institutions, at different types of higher education institutions and with phases of professional work between the first and the second qualification. The organization of the study programmes makes use of modular components and of the European Credit Transfer and Accumulation System (ECTS) with 30 credits corresponding to one semester.

8.4.1 Bachelor

Bachelor degree study programmes lay the academic foundations, provide methodological skills and lead to qualifications related to the professional field. The Bachelor degree is awarded after 3 to 4 years.

The Bachelor degree programme includes a thesis requirement. Study courses leading to the Bachelor degree must be accredited according to the Law establishing a Foundation for the Accreditation of Study Programmes in Germany.³

First degree programmes (Bachelor) lead to Bachelor of Arts (B.A.), Bachelor of Science (B.Sc.), Bachelor of Engineering (B.Eng.), Bachelor of Laws (LL.B.), Bachelor of Fine Arts (B.F.A.) or Bachelor of Music (B.Mus.).

Diploma Supplement

European Masters Course in Software Engineering

earned 60 credits at least. The MU1 does not give access to DR programmes nor to other 3rd cycle degree courses.

Third cycle. It covers the following typologies of degree courses: A) Corsi di Dottorato di Ricerca-CDR (research doctorate programmes); B) Corsi di Specializzazione-CS (specialisation courses); C) Corsi di Master Universitario di 2° livello-CMU2 (2nd level university master courses).

A) CDR aim at training postgraduates for very advanced scientific research or for professional appointments of the highest consequence; they envisage the use of suitable teaching methodologies such as updated technologies, study periods abroad, stages in specialistic research centres. Access is by an Italian 2nd degree (LS/LM) or a foreign comparable degree; admission is subject to the passing of very competitive exams; legal length must be min. 3 years; the drawing up of an original dissertation is necessary for the awarding of the 3rd degree called Dottorato di Ricerca-DR (research doctorate); the corresponding personal title is Dottore di Ricerca.

B) CS are devised to provide postgraduates with knowledge and abilities as requested in the practice of highly qualifying professions; the majority concerns medical, clinical and surgical specialities, but CS have been also established for the advanced education and professional training in different contexts. CS may be established exclusively in application of specific Italian laws or EU directives. Access is by an LS/LM or by a foreign comparable degree; admission is subject to the passing of a competitive examination; course length is min. 2 years. The final degree, called "Diploma di Specializzazione"-DS, give th right to the title as "Specialista".

C) CMU2 consist in advanced scientific courses or higher continuing education studies, open to the holders of an LS or a foreign comparable degree; admission may be subject to additional conditions. Studies take min. 1 year. The degree (Master Universitario di 2° livello-MU2) is awarded to postgraduates who have earned min. 60 credits.

Credits: degree courses are usually structured in credits (crediti formativi universitari - CFU). A university credit generally corresponds to 25 hours of global work per student, time for personal study included. The average workload of a full time student is conventionally fixed at 60 credits/year.

Classes of Degree Courses: all CL and CLS/CLM sharing the same educational objectives and the same fundamental types of teaching-learning activities are organised in groups called "classi di appartenenza" (classes of degree courses). The content of individual degree courses is autonomously determined by universities; however, when establishing a CL or a CLS/CLM, individual institutions have to adopt some general requirements fixed at national level. Degrees belonging to the same class have the same legal validity.

Academic Titles: the latest university legislation has defined the academic titles corresponding to the degrees of the Bologna sequence. The L entitles to be called "Dottore", the holders of an LS/LM have a right to the title as "Dottore Magistrale", the DR attributes the title as "Dottore di Ricerca".

Joint Degrees: Italian universities are allowed to establish all the degree programmes in cooperation with foreign partner universities, both European and non-European; they may therefore design integrated curricula on completion of which joint or double/multiple degrees are awarded.

5.4.2 Master

Master is the second degree after another 1 to 2 years. Master study programmes must be differentiated by the profile types "more practice-oriented" and "more research-oriented". Higher Education Institutions define the profile of each Master study programme.

The Master degree study programme includes a thesis requirement. Study programmes leading to the Master degree must be accredited according to the Law establishing a Foundation for the Accreditation of Study Programmes in Germany.¹⁾

Second degree programmes (Master) lead to Master of Arts (M.A.), Master of Science (M.Sc.), Master of Engineering (M.Eng.), Master of Laws (J.L.M.), Master of Fine Arts (M.F.A.) or Master of Music (M.Mus.). Master study programmes, which are designed for continuing education or which do not build on the preceding Bachelor study programmes in terms of their content, may carry other designations (e.g. MBA).

5.4.3 Integrated "Long" Programmes (One-Tier): Diplom-degrees, Magister Artium, Staatsprüfung

An integrated study programme is either mono-disciplinary (Diplom degrees, most programmes completed by a Staatsprüfung) or comprises a combination of either two major or one major and two minor fields (Magister Artium). The first stage (1.5 to 2 years) focuses on broad orientations and foundations of the field(s) of study. An Intermediate Examination (Diplom-Vorprüfung for Diplom degrees; Zwischenprüfung or credit requirements for the Magister Artium) is prerequisite to enter the second stage of advanced studies and specializations. Degree requirements include submission of a thesis (up to 6 months duration) and comprehensive final written and oral examinations. Similar regulations apply to studies leading to a Staatsprüfung. The level of qualification is equivalent to the Master level.

- Integrated studies at Universitäten (U) last 4 to 5 years (Diplom-degree, Magister Artium) or 3 to 3.5 years (Staatsprüfung). The Diplom degree is awarded in engineering disciplines, the natural sciences as well as economics and business. In the humanities, the corresponding degree is usually the Magister Artium (M.A.). In the social sciences, the practice varies as a matter of institutional traditions. Studies preparing for the legal, medical, pharmaceutical and teaching professions are completed by a Staatsprüfung.

The three qualifications (Diplom, Magister Artium and Staatsprüfung) are academically equivalent. They qualify to apply for admission to doctoral studies. Further prerequisites for admission may be defined by the Higher Education Institution, cf. Sec. 5.5.

- Integrated studies at Fachhochschulen (FH/Universities of Applied Sciences (UAS)) last 4 years and lead to a Diplom (FH) degree. While the FH(UAS) are non-doctorate granting institutions, qualified graduates may apply for admission to doctoral studies at doctorate-granting institutions, cf. Sec. 5.5.

- Studies at Kunst- and Musikhochschulen (Universities of Art/Music etc.) are more diverse in their organization, depending on the field and individual objectives. In addition to Diplom/Magister degrees, the integrated study programme awards include Certificates and certified examinations for specialized areas and professional purposes.

5.5 Doctorate

Universities as well as specialized institutions of university standing and some Universities of Art/Music are doctorate-granting institutions. Formal prerequisite for admission to doctoral work is a qualified Master (UAS and U), a Magister degree, a Diplom, a Staatsprüfung, or a foreign equivalent. Particularly qualified holders of a Bachelor or a Diplom (FH) degree may also be admitted to doctoral studies without acquisition of a further degree by means of a procedure to determine their aptitude. The universities respectively the doctorate-granting institutions regulate entry to a doctorate as well as the structure of the procedure to determine aptitude. Admission further requires the acceptance of the Dissertation research project by a professor as a supervisor.

8.6 Grading Scheme

The grading scheme in Germany usually comprises five levels (with numerical equivalents; intermediate grades may be given): "Sehr Gut" (1) = Very Good; "Gut" (2) = Good; "Befriedigend" (3) = Satisfactory; "Ausreichend" (4) = Sufficient; "Nicht ausreichend" (5) = Non-Sufficient/Fail. The minimum passing grade is "Ausreichend" (4). Verbal designations of grades may vary in some cases and for doctoral degrees.

In addition institutions may already use the ECTS grading scheme, which operates with the levels A (best 10 %), B (next 25 %), C (next 30 %), D (next 25 %), and E (next 10 %).

8.7 Access to Higher Education

The General Higher Education Entrance Qualification (*Allgemeine Hochschulreife*, *Abitur*) after 12 to 13 years of schooling allows for admission to all higher educational studies. Specialized variants (*Fachgebundene Hochschulreife*) allow for admission to particular disciplines. Access to *Fachhochschulen* (UAS) is also possible with a *Fachhochschulreife*, which can usually be acquired after 12 years of schooling. Admission to Universities of Art/Music may be based on other or require additional evidence demonstrating individual aptitude. Higher Education Institutions may in certain cases apply additional admission procedures.

8.8 National Sources of Information

- Kultusministerkonferenz (KMK) [Standing Conference of the Ministers of Education and Cultural Affairs of the Länder in the Federal Republic of Germany]; Lennéstrasse 6, D-53113 Bonn; Fax: +49(0)228/501-229; Phone: +49(0)228/501-0
- Central Office for Foreign Education (ZaB) as German NARIC; www.kmk.org; E-Mail: zab@kmk.org
- "Documentation and Educational Information Service" as German EURYDICE-Unit, providing the national dossier on the education system (www.kmk.org/doku/bildungswesen.htm); E-Mail: eurydice@kmk.org
- Hochschulrektorenkonferenz (HRK) [German Rectors' Conference]; Ahrstrasse 39, D-53175 Bonn; Fax: +49(0)228/887-110; Phone: +49(0)228/887-0; www.hrk.de; E-Mail: sek@hrk.de
- "Higher Education Compass" of the German Rectors' Conference features comprehensive information on institutions, programmes of study, etc. (www.higher-education-compass.de)

¹ The information covers only aspects directly relevant to purposes of the Diploma Supplement. All information as of 1 July 2005.

² *Berufsakademien* are not considered as Higher Education Institutions, they only exist in some of the Länder. They offer educational programmes in close cooperation with private companies. Students receive a formal degree and carry out an apprenticeship at the company. Some *Berufsakademien* offer Bachelor courses which are recognized as an academic degree if they are accredited by a German accreditation agency.

³ Common structural guidelines of the Länder as set out in Article 9 Clause 2 of the Framework Act for Higher Education (HRG) for the accreditation of Bachelor's and Master's study courses (Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the Länder in the Federal Republic of Germany of 10.10. 2003, as amended on 21.4.2005).

⁴ "Law establishing a Foundation 'Foundation for the Accreditation of Study Programmes in Germany'", entered into force as from 26.2.2005, GV. NRW. 2005, nr. 5, p. 45 in connection with the Declaration of the Länder to the Foundation "Foundation for the Accreditation of Study Programmes in Germany" (Resolution of the Standing Conference of the Ministers of Education and Cultural Affairs of the Länder in the Federal Republic of Germany of 16.12.2004).

⁵ See note No. 4.

⁶ See note No. 4.

EUROPEAN MASTERS PROGRAMME IN SOFTWARE ENGINEERING



Freie Universität Bozen
Libera Università di Bolzano
Università Liedia de Bulsan



TECHNISCHE UNIVERSITÄT
KAISERSLAUTERN



UNIVERSITY of OULU
OULUN YLIOPISTO



POLITÉCNICA
"Engineering the future"

Libera Università di Bolzano

Technische Universität Kaiserslautern

University of Oulu

Universidad Politécnica de Madrid

On the one hand, the of the Erasmus Mundus European Masters Programme in Software Engineering Consortium (hereafter referred to as THE CONSORTIUM), represented by «CONSORTIUM'S REPRESENTATIVE'S NAME»

and

on the other hand, «First_Name» «Family_Name», «Nationality», with passport number «Passport No», listed as grantee in the EACEA's Erasmus Mundus Online Mobility Database (hereafter referred to as THE STUDENT)

HAVE AGREED on the following conditions:

I. PRELIMINARIES

1. This agreement stipulates the conditions for commencing, drawing, suspending and terminating the payment of the grant that THE STUDENT is to receive from Action 2 of the Erasmus Mundus Programme.
2. As a prerequisite to receive the grant, THE STUDENT declares that she/he has not been beneficiary of a previous Erasmus Mundus Action 2 grant, unless specifically authorized by the Education, Audiovisual and Culture Executive Agency (hereafter EACEA).
3. The grant paid to THE STUDENT has a two-year duration. It amounts to «Amount» EUR in total, divided into a lump sum of «Amount» EUR to cover travelling and other expenses, and a contribution to the subsistence costs of «Amount» EUR, which will be drawn as regular payments.
4. This agreement also regulates the payment of the Erasmus Mundus European Masters Course in Software Engineering (hereafter referred to as EMSE) tuition fee and necessary health insurance.

II. REGULATORY FRAMEWORK

5. This agreement is drafted under «Decision» of the European Parliament and of the Council of «Decision».
6. This agreement is complementary to the Framework Partnership Agreement «Number» creating the EMSE, as well as any later Specific Agreements subscribed by THE CONSORTIUM and EACEA implementing the aforesaid Framework Partnership Agreement.
7. The stipulations of art. «Number» of Framework Partnership Agreement notwithstanding, the Courts of Bozen-Bolzano (Italy) shall have jurisdiction in any dispute between the parties.

EUROPEAN MASTERS PROGRAMME IN SOFTWARE ENGINEERING



Freie Universität Bozen
Libera Università di Bolzano
Università Lìdia de Bulsan

Libera Università di Bolzano



TECHNISCHE UNIVERSITÄT
KAISERSLAUTERN

Technische Universität Kaiserslautern



UNIVERSITY of OULU
OULUN YLIOPISTO

University of Oulu



POLITÉCNICA
"Engineering the future"

Universidad Politécnica de Madrid

8. The national laws of the country where THE STUDENT is registered for studying in conjunction with THE CONSORTIUM's decisions shall be applicable to any points not considered herein (for example, student's rights and duties, programme continuity, fees for certificate issuance, etc.)

III. COMMENCEMENT OF THE GRANT

9. THE STUDENT shall start to receive the financial assistance when this agreement has been duly signed by THE CONSORTIUM and THE STUDENT.

IV. DRAWING THE GRANT

10. THE STUDENT shall receive the grant in accordance with the following schedule:

- a. In year 1:
 - i. After this agreement has been signed, THE STUDENT shall receive a lump sum of «Amount» EUR of which «Amount» for travel and «Amount» for installation costs. For this purpose, THE STUDENT shall have informed THE CONSORTIUM of the details of a bank account opened in his or her name in the European country where he or she is taking the EMSE programme. THE STUDENT is responsible for supplying the correct details as and when required.
 - ii. The other payments shall be drawn as 12 monthly payments, from October to September. The payments shall be made in compliance with the usual practice of the Free University of Bozen-Bolzano. THE STUDENT shall receive 1,000.00 EUR in each monthly payment. If, for any reason, a payment cannot be made, the respective arrears shall be due in the following payment.
- b. In year 2, THE STUDENT shall receive a lump sum of «Amount» EUR for travel costs. the payments shall be drawn in 12 monthly payments under the same conditions as specified in art. 10.a.ii. The amount of each monthly payment shall be 1,000.00 EUR.

EUROPEAN MASTERS PROGRAMME IN SOFTWARE ENGINEERING



Freie Universität Bozen
Libera Università di Bolzano
Universitè Lìedia de Bulsan



TECHNISCHE UNIVERSITÄT
KAISERSLAUTERN



UNIVERSITY of OULU
OULUN YLIOPISTO



POLITÉCNICA
"Engineering the future"

Libera Università di Bolzano

Technische Universität Kaiserslautern

University of Oulu

Universidad Politécnica de Madrid

STUDY DEVELOPMENT

11. The EMSE curriculum is a 120-ECTS programme completely taught in English. The academic calendar is published every year at the EMSE web site <http://emse.case.unibz.it/emse-dokuwiki/>
12. The learning path of THE STUDENT is «Path». The two host universities of THE CONSORTIUM visited by THE STUDENT shall automatically recognize courses, credits, and exam grades of the chosen learning path.
13. The learning path includes a mandatory activities: an internship at the second year, 2-ECTS local language / culture course per year, a summer school at the end of the first year, and a final thesis work.
14. THE CONSORTIUM shall evaluate a change request of the learning path on a case-by-case rule.
15. The thesis is co-supervised by one lecturer of each host university visited by THE STUDENT.
16. THE STUDENT shall follow the EMSE thesis rule available at the EMSE web site <http://emse.case.unibz.it/emse-dokuwiki/>
17. The EMSE graduation ceremony is held in Bozen-Bolzano every December.

V. MOBILITY RULE

18. At the end of the first year and no later than next October, THE STUDENTS shall gain 52/60 ECTS before officially moving to the second host university. Violation of the rule will occur in a termination of the grant and exiting from the EMSE joint programme. In this case, THE STUDENT is allowed to continue the study at the first host university.

VI. CODE OF CONDUCT

19. THE STUDENT shall respect the code of conduct of the host institutions, host associated partners for the internship, and EMSE rules stated in V and IX

VII. JOINT DIPLOMA AND DIPLOMA SUPPLEMENT

20. At completion and fulfillment of the study development, THE CONSORTIUM will award THE STUDENT with a joint degree of the two host universities visited by THE STUDENT and the EMSE Diploma Supplement.

VIII. JOINT BOARD

21. THE STUDENT shall contact the local representative of the Joint Board for any issue related to the EMSE study development, any personal request and special needs (e.g., maternity leaves). THE EMSE local representative shall direct the student to the appropriate local service.

IX. SUSPENSION OF THE GRANT

EUROPEAN MASTERS PROGRAMME IN SOFTWARE ENGINEERING



Freie Universität Bozen
Libera Università di Bolzano
Universitè Lìedia de Bulsan

Libera Università di Bolzano



TECHNISCHE UNIVERSITÄT
KAISERSLAUTERN

Technische Universität Kaiserslautern



UNIVERSITY of OULU
OULUN YLIOPISTO

University of Oulu



POLITÉCNICA
"Engineering the future"

Universidad Politécnica de Madrid

22. THE CONSORTIUM shall be entitled to suspend the monthly payments under the following circumstances:
 - a. Failure to regularly attend classes and follow the course and exam local rules
 - b. Insufficient proficiency (including language courses, internship, thesis work)
 - c. The subjects taken by THE STUDENT do not match the EMSE learning path chosen by THE STUDENT.
23. THE CONSORTIUM shall develop specific guidelines detailing the circumstances stated in article 22.

X. TERMINATION OF THE GRANT

24. In the event that the circumstances stipulated in section V continue over a prolonged period of time and in the violation of the Mobility rule (V), THE CONSORTIUM shall consider the grant to be terminated and no further payments shall be made to THE STUDENT. EACEA shall be given advance notice in writing of THE CONSORTIUM's decision.
25. THE STUDENT shall be entitled to voluntarily terminate the grant at any time. To do so, he or she shall have to notify THE CONSORTIUM in writing. EACEA shall be given written notice of THE STUDENT's decision.
26. In the event of art. 24, THE STUDENT shall be responsible for any legal penalties deriving from the termination of the grant.
27. In any case, the grant shall terminate at the end of two academic years after signature of this agreement, irrespective of any other circumstance.

XI. PARTICIPATION COSTS

28. The participation costs of EMSE consist of
 - a. EMSE tuition fee. The tuition fee covers the local university fee and any social taxes or cost for mandatory EMSE activities (e.g., local language course). These costs shall directly be paid by THE CONSORTIUM
 - b. Health insurance. THE STUDENT shall be covered by a health insurance policy fulfilling EACEA's requirements. For the 2015/2017 edition of the EMSE, the broker is «Broker». The insurance premium shall directly be paid by THE CONSORTIUM

EUROPEAN MASTERS PROGRAMME IN SOFTWARE ENGINEERING



Freie Universität Bozen
Libera Università di Bolzano
Università Lìdia de Bulsan

Libera Università di Bolzano



TECHNISCHE UNIVERSITÄT
KAISERSLAUTERN

Technische Universität Kaiserslautern



UNIVERSITY of OULU
OULUN YLIOPISTO

University of Oulu



POLITÉCNICA
"Engineering the future"

Universidad Politécnica de Madrid

29. THE STUDENT authorizes THE CONSORTIUM's officials to act on her/his behalf in all administrative actions related to EMSE.

XII. Students' Services

30. THE CONSORTIUM provides services for installation and student induction.

31. THE CONSORTIUM maintains this information on EMSE web pages
<http://emse.case.unibz.it/emse-dokuwiki/> and in the local Institution pages

SIGNATURES

For THE CONSORTIUM

For THE STUDENT

«Consortium's repres., role, affiliation»

«First_Name» «Family_Name»

«Date»

Three copies of this contract should be signed: one for the student, another for the Consortium's Coordinator, Prof. Barbara Russo, and a third for the corresponding University Officials). Each page should be signed in the margin by both THE CONSORTIUM and THE STUDENT.

EUROPEAN MASTERS PROGRAMME IN SOFTWARE ENGINEERING



Freie Universität Bozen
Libera Università di Bolzano
Università Liedia de Bulsan



TECHNISCHE UNIVERSITÄT
KAISERSLAUTERN



UNIVERSITY of OULU
OULUN YLIOPISTO



POLITÉCNICA
"Engineering the future"

Libera Università di Bolzano

Technische Universität Kaiserslautern

University of Oulu

Universidad Politécnica de Madrid

On the one hand, the of the Erasmus Mundus European Masters Programme in Software Engineering Consortium (hereafter referred to as THE CONSORTIUM), represented by «CONSORTIUM'S REPRESENTATIVE'S NAME»

and

on the other hand, «First_Name» «Family_Name», «Nationality», with passport number «Passport No», listed as grantee in the EACEA's Erasmus Mundus Online Mobility Database (hereafter referred to as THE STUDENT)

HAVE AGREED on the following conditions:

I. PRELIMINARIES

1. This agreement stipulates the conditions for commencing, drawing, suspending and terminating the payment of the grant that THE STUDENT is to receive from Action 2 of the Erasmus Mundus Programme.
2. As a prerequisite to receive the grant, THE STUDENT declares that she/he has not been beneficiary of a previous Erasmus Mundus Action 2 grant, unless specifically authorized by the Education, Audiovisual and Culture Executive Agency (hereafter EACEA).
3. This agreement also regulates the payment of the Erasmus Mundus European Masters Course in Software Engineering (hereafter referred to as EMSE) tuition fee and necessary health insurance.

II. REGULATORY FRAMEWORK

4. This agreement is drafted under «Decision» of the European Parliament and of the Council of «Decision».
5. This agreement is complementary to the Framework Partnership Agreement «Number» creating the EMSE, as well as any later Specific Agreements subscribed by THE CONSORTIUM and EACEA implementing the aforesaid Framework Partnership Agreement.
6. The stipulations of art. «Number» of Framework Partnership Agreement notwithstanding, the Courts of Bozen-Bolzano (Italy) shall have jurisdiction in any dispute between the parties.
7. The national laws of the country where THE STUDENT is registered for studying in conjunction with THE CONSORTIUM's decisions shall be applicable to any points not considered herein (for example, student's rights and duties, programme continuity, fees for certificate issuance, etc.)

EUROPEAN MASTERS PROGRAMME IN SOFTWARE ENGINEERING



Freie Universität Bozen
Libera Università di Bolzano
Università Lìedia de Bulsan



TECHNISCHE UNIVERSITÄT
KAISERSLAUTERN



UNIVERSITY of OULU
OULUN YLIOPISTO



POLITÉCNICA
"Engineering the future"

Libera Università di Bolzano

Technische Universität Kaiserslautern

University of Oulu

Universidad Politécnica de Madrid

III. STUDY DEVELOPMENT

8. The EMSE curriculum is a 120-ECTS programme completely taught in English. The academic calendar is published every year at the EMSE web site <http://emse.case.unibz.it/emse-dokuwiki/>
9. The learning path of THE STUDENT is «Path». The two host universities of THE CONSORTIUM visited by THE STUDENT shall automatically recognize courses, credits, and exam grades of the chosen learning path.
10. The learning path includes a mandatory activities: an internship at the second year, 2-ECTS local language / culture course per year, a summer school at the end of the first year, and a final thesis work.
11. THE CONSORTIUM shall evaluate a change request of the learning path on a case-by case rule.
12. The thesis is co-supervised by one lecturer of each host university visited by THE STUDENT.
13. THE STUDENT shall follow the EMSE thesis rule available at the EMSE web site site <http://emse.case.unibz.it/emse-dokuwiki/>
14. The EMSE graduation ceremony is held in Bozen-Bolzano every first week of December.

IV. MOBILITY RULE

15. At the end of the first year and no later than next October, THE STUDENTS shall gain 52/60 ECTS before officially moving to the second host university. Violation of the rule will occur in exiting from the EMSE joint programme. In this case, THE STUDENT is allowed to continue the study at the first host university.

V. CODE OF CONDUCT

16. THE STUDENT shall respect the code of conduct of the host institutions, host associated partners for the internship, and EMSE rules stated in III, VIII

VI. JOINT DIPLOMA AND DIPLOMA SUPPLEMENT

17. At completion and fulfillment of the study development, THE CONSORTIUM will award THE STUDENT with a joint degree of the two host universities visited by THE STUDENT and the EMSE Diploma Supplement.

VII. JOINT BOARD

18. THE STUDENT shall contact the local representative of the Joint Board for any issue related to the EMSE study development, any personal request and special needs (e.g., maternity leaves). THE EMSE local representative shall direct the student to the appropriate local service.

EUROPEAN MASTERS PROGRAMME IN SOFTWARE ENGINEERING



Freie Universität Bozen
Libera Università di Bolzano
Universit   Liedia de Bulsan



TECHNISCHE UNIVERSIT  T
KAISERSLAUTERN



UNIVERSITY of OULU
OULUN YLIOPISTO



POLIT  CNICA
"Engineering the future"

Libera Universit   di Bolzano

Technische Universit  t Kaiserslautern

University of Oulu

Universidad Polit  cnica de Madrid

VIII. EXITING THE EMSE PROGRAMME

19. THE CONSORTIUM shall be entitled to suspend the monthly payments under the following circumstances:
 - a. Failure to regularly attend classes and follow the course and exam local rules
 - b. Insufficient proficiency (including language courses, internship, thesis work)
 - c. The subjects taken by THE STUDENT do not match the EMSE learning path chosen by THE STUDENT.
20. THE CONSORTIUM shall develop specific guidelines detailing the circumstances stated in article 19.
21. In the event that the circumstances stipulated in article 19 continue over a prolonged period of time and in the violation of the Mobility rule (IV), THE CONSORTIUM shall consider the exiting of THE STUDENT from the EMSE joint programme. In this case, THE STUDENT is allowed to continue the study at the first host university.

IX. PARTICIPATION COSTS

22. The participation costs of EMSE consist of
 - a. EMSE tuition fee. The tuition fee is publicly announced in the EMSE web pages every year. The tuition fee covers the local university fee and any social taxes or cost for mandatory EMSE activities (e.g., local language course). These costs shall directly be paid by THE CONSORTIUM
 - b. Health insurance. THE STUDENT shall be covered by a health insurance policy fulfilling EACEA's requirements. For the 2015/2017 edition of the EMSE, the broker is «Broker». The insurance premium shall directly be paid by THE CONSORTIUM
23. THE STUDENT authorizes THE CONSORTIUM's officials to act on her/his behalf in all administrative actions related to EMSE.

X. Students' Services

24. THE CONSORTIUM provides services for installation and student induction.
25. THE CONSORTIUM maintains this information on EMSE web pages <http://emse.case.unibz.it/emse-dokuwiki/> and in the local Institution pages

SIGNATURES

EUROPEAN MASTERS PROGRAMME IN SOFTWARE ENGINEERING



Freie Universität Bozen
Libera Università di Bolzano
Università Lìdia de Bulsan

Libera Università di Bolzano



TECHNISCHE UNIVERSITÄT
KAISERSLAUTERN

Technische Universität Kaiserslautern



UNIVERSITY of OULU
OULUN YLIOPISTO

University of Oulu



POLITÉCNICA
"Engineering the future"

Universidad Politécnica de Madrid

For THE CONSORTIUM

For THE STUDENT

«Consortium's repres., role, affiliation»

«First_Name» «Family_Name»

«Date»

Three copies of this contract should be signed: one for the student, another for the Consortium's Coordinator, Prof. Barbara Russo, and a third for the corresponding University Officials). Each page should be signed in the margin by both THE CONSORTIUM and THE STUDENT.

Learning paths with FUB

EMSE 2015-2016 onward

A course of local language of 2 ECTS is EMSE compulsory at each academic year on top of the 120 ECTS

FUB

UNIKL

ES	Topic	Title	ECTS	Topic	Title	ECTS
1	SPPM	Software Process Management	8	VV	Safety & Reliability of Embedded systems	4
	TS	Statistical Methods	4	PST	Performance modelling of distributed systems (A)	4
	RE	Requirements and Design of Software Systems I	4	I	Internship	8
	SD	Requirements and Design of Software Systems II	4	TS	Product line Engineering	4
	PST	IT and Service Management	8	PST	Middleware for Heterogeneous and Distributed Information Systems	8
				ESER	Software Engineering Seminar	4
			semester	28		
					semester	28
2	VV	Software Reliability and Testing	8	T	Thesis	30
	ESER	Empirical Software Measurement	8			
	SPPM	Software Factory / Quality Software Factory	8			
	PST	Advanced Internet Technologies	8			
			semester	32		
					semester	30
			year	60		
					year	58
Total						118

FUB

UNIKL

Alternative	ECTS	Alternative	ECTS
Legend Core Areas Software Project / Process Management SPPM Verification and Validation VV Software Design SD Requirements engineering RE Partner Specific Topic in Software Engineering PST Transversal Skills TS Empirical Software Engineering Research ESER Internship I Thesis T			

FUB

UPM

ES	Topic	Title	ECTS	Topic	Title	Lang.
1	SPPM	Software Process Management	8	I	Software Internship	14
	TS	Statistical Methods	4	PST	Alternatives	8
	RE	Requirements and Design of Software Systems I	4	TS	Transversal Skills	8
	SD	Requirements and Design of Software Systems II	4			
	PST	IT and Service Management	8			
			semester	28		
					semester	30
2	VV	Software Reliability and Testing	8	T	Thesis	30
	ESER	Empirical Software Measurement	8			
	SPPM	Software Factory / Quality Software Factory	8			
	PST	Advanced Internet Technologies	8			
			semester	32		
					semester	30
			year	60		
					year	60
Total						120

FUB

UPM

Alternative	ECTS	Alternative	ECTS
Data Engineering 4 Management, Relationships and Communication in Working Groups 4 Challenges for accessible computing for people with functional diversity 4 Agile Software Development: Agile Practices and Agile Usability 4 Distributed and Outsourced Software Engineering 4 Rigorous Software Development 4			

UNIKL				UPM			
ES	Topic	Title	ECTS	Topic	Title	ECTS	
1	VV	Safety and Reliability of Embedded Systems	4	I	Software Internship	14	
	PST	Performance Modeling of Distributed Systems	4	PST	Alternatives	8	
	RE	Requirements Engineering	4	TS	Transversal Skills	8	
	PST	Middleware for Heterogeneous Distributed Information Systems	8				
	PST	Quality Management software and System (A1)	4				
	TS	Product Line Engineering	4				
semester			28	semester			30
2	VV	Formal Specification and verification Techniques	8	T	Thesis	30	
	SSPM	Software Internship and Process Management	4				
	SD	Software Architecture of Distributed Systems (A2)	8				
	TS	Process Modelling	4				
	ERM	Empirical Model Building and Methods and Software Engineering Seminar	8				
semester			32	semester			30
year			60	year			60
Total							

UNIKL		UPM	
Alternative	ECTS	Alternative	ECTS
A1: Software Quality Assurance		Data Engineering	4
A2: Service Oriented Architecture		Management, Relationships and Communication in Working Groups	4
		Challenges for accessible computing for people with functional diversity	4
		Agile Software Development: Agile Practices and Agile Usability	4
		Distributed and Outsourced Software Engineering	4
		Rigorous Software Development	4

UNIKL				UoO			
ES	Topic	Title	ECTS	Topic	Title	ECTS	
1	VV	Safety and Reliability of Embedded Systems	4	TS	Principles of Internship Management	3	
	PST	Performance Modeling of Distributed Systems	4	I	Internship II	11	
	RE	Requirements Engineering	4	ERM	Software Engineering Research	7	
	PST	Middleware for Heterogeneous Distributed Information Systems	8	ERM	Research Methods	5	
	PST	Quality Management software and System (A1)	4	TS	Interaction Design	4	
	PST	Product Line Engineering	4				
semester			28	semester			30
2	VV	Formal Specification and verification Techniques	8	T	Thesis	30	
	SSPM	Software Internship and Process Management	4				
	SD	Software Architecture of Distributed Systems (A2)	8				
	SSPM	Process Modelling	4				
	ERM	Empirical Model Building and Methods and Software Engineering Seminar	8				
semester			24	semester			30
year			52	year			60
Total							

UNIKL		UoO	
Alternative	ECTS	Alternative	ECTS
A1: Software Quality Assurance			
A2: Service Oriented Architecture			

UPM				UoO			
ES	Topic	Title	ECTS	Topic	Title	ECTS	
1	RE	Requirements Engineering	6	TS	Principles of Project Management	3	
	SPPM	Models and Methods for Process Improvement and Assessment	4	I	Project II	11	
	SPPM	Software Project Management	4	ERM	Software Engineering Research	7	
	ESER	Software Metrics	4	ERM	Research Methods	5	
	VV	Verification and Validation	6	TS	Interaction Design	4	
	TS	Software Economics	3				
	PST	Critical Software	3				
semester			30	semester			30
2	PST	Agent Based Software Engineering	6	T	Thesis	30	
	SD	Software Design	4				
	TS	Interaction Design	6				
	ESER	Experimental Software Engineering	6				
	SD	Software Architecture	4				
	VV	Software Quality Management	4				
semester			30	semester			30
year			60	year			60
Total							

UPM	UoO
Alternative	Alternative

UPM				UNIKL			
ES	Topic	Title	ECTS	Topic	Title	ECTS	
1	RE	Requirements Engineering	6	VV	Safety & Reliability of Embedded systems	4	
	SPPM	Models and Methods for Process Improvement and Assessment	4	PST	Performance modelling of distributed systems (A)	4	
	SPPM	Software Internship Management	4	I	Internship	8	
	ESER	Software Metrics	4	TS	Product line Engineering	4	
	VV	Verification and Validation	6	PST	Middleware for Heterogeneous and Distributed Information Systems	8	
	TS	Software Economics	3	ESER	Software Engineering Seminar	4	
	PST	Critical Software	3				
			semester	30	semester		20
2	PST	Agent Based Software Engineering	6	T	Thesis	30	
	SD	Software Design	4				
	TS	Interaction Design	6				
	ESER	Experimental Software Engineering	6				
	SD	Software Architecture	4				
	VV	Software Quality Management	4				
			semester	30	semester		30
			year	60	year		50
Total							

UPM	UNIKL
Alternative	Alternative

UoO				UNIKL			
ES	Topic	Title	ECTS	Topic	Title	ECTS	
1	PST	Software Development in Global Environment	5	VV	Safety & Reliability of Embedded systems	4	
	PST	Open Source Software Development	4	PST	Performance modelling of distributed systems (A)	4	
	SPPM	Software Engineering Management, Measurement and Improvement	5	I	Project	8	
	VV	Software Quality and Testing	5	TS	Product line Engineering	4	
	SD	Realtime Distributed Software Development	6	PST	Middleware for Heterogeneous and Distributed Information Systems	8	
	ESER	Advanced Topic in Software Engineering	5	ESER	Software Engineering Seminar	4	
semester			30	semester			20
2	RE	Software Production and Maintenance	5	T	Thesis	30	
	SD	Embedded Software Development Environments	5				
	TS	IT Infrastructure	5				
	PST	Programmable Web Project	5				
	VV	Advanced Topic in Software Testing	5				
	TS	Mobile and Social Computing	5				
semester			30	semester			30
year			60	year			50
Total							

UoO		UNIKL	
Alternative		Alternative	

UoO				UPM			
ES	Topic	Title	ECTS	Topic	Title	ECTS	
1	PST	Software Development in Global Environment	5	I	Software Project	14	
	PST	Open Source Software Development	4	PST	Alternatives	8	
	SPPM	Software Engineering Management, Measurement and Improvement	5	TS	Transversal Skills	8	
	VV	Software Quality and Testing	5				
	PST	Realtime Distributed Software Development	6				
	ESER	Advanced Topic in Software Engineering	5				
semester			30	semester			30
2	SPPM	Software Production and Maintenance	5	T	Thesis	30	
	PST	Embedded Software Development Environments	5				
	TS	IT Infrastructure	5				
	PST	Programmable Web Project	5				
	VV	Advanced Topic in Software Testing	5				
	TS	Mobile and Social Computing	5				
semester			30	semester			30
year			60	year			60
Total							

UoO		UPM		
Alternative		Alternative		ECTS
		Data Engineering		4
		Management, Relationships and Communication in Working Groups		4
		Challenges for accessible computing for people with functional diversity		4
		Agile Software Development: Agile Practices and Agile Usability		4
		Distributed and Outsourced Software Engineering		4
		Rigorous Software Development		4

FUB				UoO			
ES	Topic	Title	ECTS	Topic	Title	Lang.	
1	SPPM	Software Process Management	8	TS	Principles of Internship Management	3	
	TS	Statistical Methods	4	I	Internship	11	
	RE	Requirements and Design of Software Systems I	4	ERM	Software Engineering Research	7	
	SD	Requirements and Design of Software Systems II	4	ERM	Research Methods	5	
	PST	IT and Service Management	8	TS	Interaction Design	4	
semester			28	semester			30
2	VV	Software Reliability and Testing	8	T	Thesis	30	
	ESER	Empirical Software Measurement	8				
	SPPM	Software Factory / Quality Software Factory	8				
	PST	Advanced Internet Technologies	8				
semester			32	semester			30
year			60	year			60
Total						120	

FUB		UoO	
Alternative	ECTS	Alternative	ECTS

UNIKL				FUB			
ES	Topic	Title	ECTS	Topic	Title	Lang.	
1	VV	Safety and Reliability of Embedded Systems	4	PST	Mobile System Engineering	8	
	PST	Performance Modeling of Distributed Systems	4	ESER	Seminars in Software and IT Engineering	4	
	RE	Requirements Engineering	4	I	Internship	8	
	PST	Middleware for Heterogeneous Distributed Information Systems	8	PST	Elective	8	
	VV	Quality Management software and System (A1)	4	ESER	Research Methods	2	
	TS	Product Line Engineering	4				
semester			28	semester			30
2	VV	Formal Specification and verification Techniques	8	T	Thesis	30	
	SPPM	Software Project and Process Management	4				
	SD	Software Architecture of Distributed Systems (A2)	8				
	TS	Process Modelling	4				
	ESER	Empirical Model Building and Methods and Software Engineering Seminar	8				
semester			32	semester			30
year			60	year			60
Total						120	

FUB		UNIKL	
Alternative	ECTS	Alternative	ECTS
Lean start up	8	A1: Software Quality Assurance	
Requirements	8	A2: Service Oriented Architecture	
IT and service management	8		

UPM				FUB			FUB		UPM	
ES	Topic	Title	ECTS	Topic	Title	Lang.	Alternative	ECTS	Alternative	ECTS
1	RE	Requirements Engineering	6	PST	Mobile System Engineering	8	Lean start up	8		
	SPPM	Models and Methods for Process Improvement and Assessment	4	ESER	Seminars in Software and IT Engineering	4	Requirements	8		
	SPPM	Software Project Management	4	I	Internship	8	IT and service management	8		
	ERM	Software Metrics	4	PST	Elective	8				
	VV	Verification and Validation	6	ESER	Research Methods	2				
	PST	Software Economics	3							
	PST	Critical Software	3							
			semester	30				semester	30	
2	PST	Agent Based Software Engineering	6	T	Thesis	30				
	SD	Software Design	4							
	PST	Interaction Design	6							
	ERM	Experimental Software Engineering	6							
	SD	Software Architecture	4							
	VV	Software Quality Management	4							
			semester	30				semester	30	
			year	60				year	60	
Total						120				

UoO				FUB			FUB		UoO	
ES	Topic	Title	ECTS	Topic	Title	Lang.	Alternative	ECTS	Alternative	ECTS
1	PST	Software Development in Global Environment	5	PST	Mobile System Engineering	8	Lean start up	8		
	PST	Open Source Software Development	4	ESER	Seminars in Software and IT Engineering	4	Requirements	8		
	SPPM	Software Engineering Management, Measurement and Improvement	5	I	Internship	8	IT and service management	8		
	VV	Software Quality and Testing	5	PST	Elective	8				
	SD	Realtime Distributed Software Development	6	ESER	Research Methods	2				
	ESER	Advanced Topic in Software Engineering	5							
			semester	30				semester	30	
2	RE	Software Production and Maintenance	5	T	Thesis	30				
	SD	Embedded Software Development Environments	5							
	TS	IT Infrastructure	5							
	PST	Programmable Web Project (transversal skills)	5							
	VV	Advanced Topic in Software Testing	5							
	TS	Mobile and Social Computing	5							
			semester	30				semester	30	
			year	60				year	60	
Total						120				

MARSH



MARSH MERCER KROLL
OLIVY CARPENTIER OLIVER WYMAN

Brussels, 7 January 2010

**DECLARATION OF HONOR WITH RESPECT TO
THE MINIMUM REQUIREMENTS OF THE EACEA**

We, the undersigned, Marsh S.A., acting in the capacity of insurance broker, duly represented by Patrice Liénart, Company Secretary, certify that our EMIS 2 insurance product meets the minimum requirements issued by the EACEA.

Patrice Liénart
Company Secretary



ace europe



EMIS 2 - Erasmus Mundus Insurance Scheme 2

Additional General Conditions Luggage/household effects

1. Subject

The object of this section is to cover the insured for the damage occurring to:

- luggage, during the journey from and to the foreign country, up to the amount stipulated in the insurance certificate;
- household effects, during the stay abroad, up to the amount stipulated in the insurance certificate.

Under "journey", it should be understood the way between the usual place of residence and the place abroad where the insured will have his/her residence for the purpose of the study, training or exchange.

The following risks are covered:

- theft of all or a part of the insured's goods;
- destruction of or damage to the insured's goods;
- loss of the insured's goods registered with the travel company.

2. Insured goods

Are insured, luggage, travel documents and household effects belonging to the insured.

Under "luggage" should be understood the objects which the insured has taken along for personal use and which, during the period of validity of the contract, have been dispatched before or after to the destination abroad, as well as the goods which the insured buys for his own use during the period of validity of the contract for a maximum sum of 250,00 EUR.

Under "travel documents" in relation with this section, should be understood passports, visas, travel tickets, drivers licenses as well as documents in connection with vehicles such as insurance papers, registration cards, and the like.

Under "household effects" should be understood all movable goods belonging to or under the responsibility of the insured which normally fall into the notion of household effects and which, during the period of validity of the contract, are located at the address of residence abroad.

3. Exclusions

Besides the exclusions relating to the benefits under preceding sections, are also excluded from the coverage on the basis of the present contract:

- loose natural pearls and precious stones;
- vessels (with the exception of sailboards), aircraft (including delta-plan and gliding equipment), motor vehicles (including motor-bikes), camping cars and other vehicles (with the exception of bicycles) as well as the accessories thereof, parts and attachments (including tents);
- damage caused by wear and tear, depreciation, own fault, own deterioration and slow acting atmospheric influences;
- damage caused by insects, worms, maggots, rodents or by any parasite, as well as the damage which is the consequence of any cleaning, repair or restoration method;
- prejudices which are directly or indirectly the consequence of the seizure, forfeiture or confiscation by the customs or the authorities, other than because of a traffic accident;
- prejudices caused by or which are the consequence of imprisonment, confiscation or seizure of the means of transport in which the insured goods are, with the exception of piracy;
- prejudices occurring during strikes, insurrection, civil disturbance, hostilities or acts of war (even if not declared), unless the insured proves that there is not the slightest causal link between the prejudice and the events described;

- bumps, scratches, stains and other deterioration, unless the damaged object has thereby become unfit for the use for which it was intended, electric or mechanical damage, the breaking of clocks, china, mirrors, works of sculpture, objects of art, paintings, musical instruments and other breakable objects, unless this damage was the consequence of fire, theft or of an accident of the means of transport used, with the exception of what is specified under "2. Insured Goods" above;
 - collections (such as postage stamps, coins, and the like);
 - papers of value, including money, of any nature, manuscripts, autographs and concepts;
 - goods, samples and collections of commercial representatives;
 - instruments, with the exception of what is specified under "4; Damage compensation" of the present section;
 - prejudice which consists solely of damage to recording appliances, video and audio heads of audio and video appliances;
 - animals;
 - prejudices when the insured has not taken normal care to prevent the loss, theft or damage of the insured goods. "Normal care" has not been exercised when video, computer, photographic, film and sound and telecommunications appliances, ornaments, clocks, fur and other valuable objects are left unattended otherwise than in an appropriate locked space (by which is not understood in a means of transport).
- For the remaining goods, this applies when they are left in a means of transport, the right for compensation exists solely:
- a. the goods are placed in an appropriate locked compartment and moreover, these goods are not visible from the outside;
 - b. all measures have been taken to avoid damage when these goods are in a means of transport which does not have an appropriate lockable compartment.
- In relation with the preceding points a. and b., they are applicable when all that could be expected from the insured has been done and no safer measures could reasonably have been taken.

4. Damage compensation

Without prejudice to the restrictions mentioned in the present section, the following values will be used as the basis for the calculation of the compensation:

- Travel documents: the amount necessary for obtaining the documents in question;
- Luggage and household effects:
 - their value when new for objects not older than one year;
 - the actual value for objects older than one year.

By value when new, it should be understood, the amount necessary for the acquisition of new objects of the same type and quality.

By "actual value", it should be understood the value of the object at the moment of the prejudice.

Compensation will be made following the "first risk" principle, thus without application of the proportionate rule. For objects that cannot be replaced by new ones of the same type and quality, the indemnity will be calculated from the market value, i.e. the market price for the sale of the objects in the state the objects were in immediately before the damage.

If damaged or lost objects are reasonably susceptible of being repaired and/or can be replaced, the Company has the right to have these objects repaired and/or replaced.

In case the objects insured by the contract make part of a pair or of a set, such as cufflinks, earrings, and the like, and they are insured for their value as a whole, the value of each object is calculated by dividing the total value by the number of objects which the pair or the set consist of.

In case of loss, destruction, theft or damage, the Company compensates the prejudice on the basis of that value and without taking into account the loss in value, which the pair or the set undergoes by no longer being complete.

Without prejudice to the restrictions mentioned in the present section of the contract, the following objects are also covered, as well as limited to the following maximums, per claim:

- travel documents: real costs;
- sailboards and bicycles: 250,00 EUR per object, including attachments;

- tools for cars, bicycles and motorcycles, snow chains, battery operated car sound and emission appliances (not mounted in a fixed way), music cassettes, compact disks, together with spare parts (under which should only be understood the V-belt (transmission belt), spark plugs, spark plug leads, distributor heads, contact points (below the spark plug) and lamp bulbs): 150,00 EUR;
- dentures: exclusively covered for the costs of replacement or repair if no compensation is due under Sections 3 and/or 4: 250,00 EUR;
- replacement of clothing and toilet items: this coverage consists of a reimbursement of the costs up to a maximum of 75,00 EUR, which the insured has spent for the urgent purchase of essential and necessary clothing and toilet items if the registered luggage is not delivered to him/her within 24 hours after arriving at destination in the foreign country;
- The coverage is awarded to the insured when the trip is undertaken on board a charter flight or a scheduled aircraft operated by an airline company under the following conditions:
 - the airline company must be in possession of certificates, licenses or authorizations which are necessary for exploiting charter flights and scheduled flights, issued by the competent authorities of the country where the aircraft is registered;
 - the departure times, connections and destinations are stated on the ticket of the insured.
- photographic, film, video, sound and computer appliances including attachments: 500,00 EUR;
- ornaments: 150,00 EUR, by which should be understood, objects which are manufactured to be worn on or about the body and which are made wholly or partially of (precious) metal, stone, mineral, ivory, (red)coral or other similar materials, also pearls, with exception of clocks;
- clocks including wrist watches and chains: 150,00 EUR;
- (sun) spectacles (including lenses) and contact lenses: 150,00 EUR;
- (mobile)telecommunications appliances: 150,00 EUR.

For the remaining household effects, a coverage insures against the following dangers: fire and explosion (also as a consequence of own fault), lightning strike, induction and overloading as a result of lightning, aircraft, storm, rainfall, water, steam and oil, theft or attempted theft by house breaking, robbery and blackmail, collision, scorching, melting, charring and overheating, smoke and soot, as well as damage by glass splinters in case of broken glass. For damage by theft or attempted theft without house breaking, a franchise of 125,00 EUR for each prejudice will be applied.

The present general conditions, the particular conditions, the request of insurance and eventual annexes form the contract.

The personal information is collected and hold by ACE European Group Limited avenue des Nerviens 9/31 - 1040 Brussels, for the general management of the customers relations, the sale and the commercialization of insurances. Following the Law of protection of private life, of 8 December 1992, you have the right to consult the information concerning yourself as you have the right to correct any eventual erroneous, incomplete or without purpose piece of information relative to your person.

For this, you have to send a recommended letter to the file administrator: ACE European Group Limited

Insurer
ACE European Group Limited
Avenue des Nerviens 9-31, 1040 Bruxelles.
Numéro d'entreprise : 867.068.548
Siège social : 100 leadenhall Steet, London EC3A 3BP, UK. Company Number: 1112892.
Entreprise agréée pour pratiquer les opérations d'assurances suivantes :
01a, 02, 03, 04, 05, 06, 07, 08, 09, 10a, 10b, 11, 12, 13, 14, 15, 16, 17, 18.
M.B. 13-09-2004. CBFA code 2312



Summary of cover

Section 1 :	Accidental death	5.000,00 EURO
Section 2 :	Permanent invalidity due to accident	75.000,00 EURO
Section 3 :	Hospital stay in a semi-private room, or ward (accident/ sickness) during max. 365 days	real costs
	Cost of treatment following an accident/ sickness	real costs
Section 4 :	Costs of urgent dental care incurred as a consequence of an accident during max. 365 days	real costs
	Costs of urgent dental care without an accident	250,00 EURO (per claim per insured)
Section 5 :	Assistance to persons : - repatriation or medical transport	real costs
	- repatriation or transportation of the mortal remains	7.500,00 EURO
	- early return in case of the death of a relative	real costs
	- the dispatching of medicines abroad	real costs
	- search and rescue costs	real costs
	- telecommunication costs	125,00 EURO
	- travel assistance (loss/theft travel documents, interpreter, travel ticket)	real costs
	- legal assistance	5.000,00 EURO
	- transportation and accommodation costs for family members	7.500,00 EURO
Section 6 :	Travel documents	150,00 EURO
Section 7 :	Civil liability in private life	
	- cover following to the laws in force in the host country	
Section 8 :	- Damage-theft-loss of luggage	1.500,00 EURO
	- Damage-theft of households effects	5.000,00 EURO



ace europe

MARSH

<Name of Applicant> Application Form

Application Status



Closed, ready
for evaluation.

Evaluation status	system_evaluating
-------------------	-------------------

Personal Information





Personal Information	
Complete name	XXX
Date of birth	1986-10-29
Gender	male
Marital status	single
Number of children	0
Country	Indonesia
Lived in EU more than 12 months	no
Postal address	XXX
Telephone	+XXX
Email address	XXX@gmail.com
Passport copy	Document Available
First Year	UKL
Second Year	FUB

Scholarship

Scholarship information	
Apply for scholarship	yes

Application Information

Undergraduate education information	
Type	B. Eng
Subject	Informatics Engineering
University	INSTITUTE OF TECHNOLOGY BANDUNG
Campus	Institute of Technology of Bandung
Country	Indonesia
Date	2008-10-25
CGPA	3.2
Scale Min.	0
Scale Max.	4
Mark to pass	1
Related to Informatics	yes
Length of the major	yes
Algorithm	yes

Databases	yes
Programming	yes
AI	yes
Discrete Maths	yes
Computer Networks	yes
Software Engineering	yes
OO Analysis and Design	yes
Structured Analysis and Design	yes
Analysis	yes
Project Management	yes
Testing	yes
Certificate copy	Document available for download 
Proficiency in English Information	
Category	TOEFL - IBT
Date	2011-12-10
Level (0-120)	103
Certificate copy	Document available for download 
Additional Documents Information	
Transcript of records	Document available for download 
Syllabus	Document available for download 
Motivation and Willingness Information	
Motivation	XXX
Additional Qualifications	-. March, 2012. Attending (and certified) a Software as a Service online course by Stanford University -. March, 2012. Attending (ongoing) a Human Computer Interaction online course by Stanford University -. March, 2012. Attending (ongoing) a Information Theory online course by Stanford University
Assistance Information	
Assistance confirmation	yes

Professional Information

First Work Experience	
Company name	XXX
Position	Software Engineer
Length	25
Analysis	yes
Design	yes
Development	yes
Management	no
Testing	yes
Second Work Experience	
Company name	XXX
Position	Software Engineer
Length	13

Analysis	yes
Design	no
Development	yes
Management	no
Testing	yes
Third Work Experience	
Company name	Not Provided
Position	Not Provided
Length	Not Provided
Analysis	no
Design	no
Development	no
Management	no
Testing	no

Financial Plan EMSE 2015-2020

Summary

Left over is used for EMSE related activities with priority to scholarships (at least three per edition, 20,000.00 euro each) as described below

Left over	Travel and events	Administrative partner c	Scholarships (20,000.00 each)
306,843.00	-30684.3	-30684.3	12

Administrative reserve covers exceeding administrative coordination costs

Admin reserve
102,425.00

Average cost per student

	Tuition EMSE	Local participation costs	Admin reserve	Total admin reserve	Other EMSE costs	Total insurance	Left over
Partner Country students	6000	1,520.25	10%	600	662.50	720	2,497.25
Programme Country stud	4250	1,520.25	10%	425	662.50	720	922.25

Max costs per student

	Tuition EMSE	Local participation costs	Admin reserve	Total admin reserve	Other EMSE costs	Total insurance	Left over
Partner Country students	6000	3,900.00	10%	600	550.00	720	230.00
Programme Country stud	4250	3,900.00	10%	425	550.00	720	-1345

JMD grant request

	1st intake		2nd intake		3rd intake		Total (B)		Total enrolled students
	Without JMD support	With JMD scholarship	Without JMD support	With JMD scholarship	Without JMD support	With JMD scholarship	Without JMD support	With JMD scholarship	
programme students	2	4	3	3	4	2	9	9	18
partner student	6	16	7	14	10	6	23	36	59
	8	20	10	17	14	8	32	45	77
	28		27		22		77		

Scholars

	Preparatory	1st intake	2nd intake	3rd intake	weeks (min 8) per edition	Stipend per week	Total per edition	Per Partner per edition
Scholars	2014-2016	2015-2017	2016-2018	2017-2019				
number per edition		4	4	4	8	1250	10000	2500

Project management

	Preparatory	1st intake	2nd intake	3rd intake	total
Project management	13000	40000	40000	40000	133000
Travel and events	7000				

FUB							
	Tuition EMSE	Local participation costs**	Admin reserve	Total admin reserve	Other costs (school, language waivers)	Total insurance	Left over
<i>Partner Country students</i>	6,000.00	1,341.00	10%	600.00	200.00	720.00	3,139.00
<i>Programme Country students</i>	4,250.00	1,341.00	10%	425.00	200.00	720.00	1,564.00

UNIKL							
	Tuition EMSE	Local participation costs**	Admin reserve	Total admin reserve	Other costs (school, language waivers)	Total insurance	Left over
<i>Partner Country students</i>	6,000.00	840.00	10%	600.00	1,200.00	720.00	2,640.00
<i>Programme Country students</i>	4,250.00	840.00	10%	425.00	1,200.00	720.00	1,065.00

OY							
	Tuition EMSE	Local participation costs**	Admin reserve	Total admin reserve	Other costs (school, language waivers)	Total insurance	Left over
<i>Partner Country students</i>	6,000.00	0.00	10%	600.00	700.00	720.00	3,980.00
<i>Programme Country students</i>	4,250.00	0.00	10%	425.00	700.00	720.00	2,405.00

UPM							
	Tuition EMSE	Local participation costs**	Admin reserve	Total admin reserve	Other costs (school, language waivers)	Total insurance	Left over
<i>Partner Country students</i>	6,000.00	3,900.00	10%	600.00	550.00	720.00	230.00
<i>Programme Country students</i>	4,250.00	3,900.00	10%	425.00	550.00	720.00	-1,345.00

SCHOLARS

	Preparatory	1st edition	2nd edition	3rd edition	Total
Scholars	2014-2016	2015-2017	2016-2018	2017-2019	
number per edition		4(8 weeks)	4(8 weeks)	4(8 weeks)	30000

LUMP SUM DISTRIBUTION

	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	Total
Lump sum	20,000	50000	50000	50000	50000	170,000
Project manager	-13,000	-35000	-5000	-30000	-10000	-133,000
Scholars		-10000	-10000	-10000	-10000	-30,000
Travel and events	-7000					-7,000
Balance	0	0	0	0	0	0

Activity preparatory year	Activities during the development of EM
Project Manager: advertise the program, manage the EMSE platform, coordinate the administrative offices, manage administrative selection and admission of first student intake	Project Manager: Report to EM, Advertise, disseminate, manage the EMSE platform, coordinate the network of offices, coordinate the administrative management of student selection, admission, and carrier, organize the summer school and events with the stakeholders
Travel and events: Meeting with stakeholders from ISERN and associated partners, industrial events and meeting with the Task Force	

FUB STANDARD PROJECT MANAGER REFERENCE COST

Area coordinator, full time, no degree

Net Income	Taxes			Monthly cost	Annual cost
	INPS (2/3 carico datore di lavoro)	INAIL (2/3 carico datore di lavoro)	IRAP		
2,366.10	28.72%	0.40%	8.50%	3026.56	39345.28

FUB budget per edition					
Lump sum		Contribution for Scholar	Contribution for Project management	Total contribution	
		2,500.00	40,000.00	42,500.00	

Partner budget per edition					
Lump sum		Contribution for Scholar	Contribution for Project management	Total contribution	
		2,500.00		2,500.00	

	1st intake		2nd intake		3rd intake		Total (B)		Total enrolled students
	Without JMD support	With JMD scholarship	Without JMD support	With JMD scholarship	Without JMD support	With JMD scholarship	Without JMD support	With JMD scholarship	
	2	4	3	3	4	2	9	9	
	6	16	7	14	10	6	23	36	
	8	20	10	17	14	8	32	45	
programme students									
partner student									
	28		27		22		77		

Spare money
form third
intake
max no. grant

112,050.00

5.6025

4th intake

FUB

2018-2019					
Partner Country students	Nr	Tuition EMSE	To Partner per student	Left over	Admin reserve (FUB)
1st year	4	6,000.00	3,139.00	12,556.00	2,400.00
2nd year	4	6,000.00	3,139.00	12,556.00	2,400.00

Tot		25,112.00	4,800.00
-----	--	-----------	----------

Programme Country students	Nr	Tuition EMSE	To Partner per student	Total to partner	Admin reserve (FUB)
1st year	2	4,250.00	1,564.00	3,128.00	850.00
2nd year	3	4,250.00	1,564.00	4,692.00	1,275.00

Tot		7,820.00	2,125.00
-----	--	----------	----------

Tot		32,932.00	6,925.00
-----	--	-----------	----------

Administrative reserve		6,925.00
------------------------	--	----------

Lump sum	Contribution for Scholar	Contribution for Project management	Total contribution	
			0.00	
			Total	Administrative reserve (FUB)
Total			32,932.00	25,925.00

UNIKL

2018-2019					
Partner Country students	Nr	Tuition EMSE	To Partner per student	Left over	Admin reserve (FUB)
1st year	4	6,000.00	2,640.00	10,560.00	2,400.00
2nd year	4	6,000.00	2,640.00	10,560.00	2,400.00

Tot		21,120.00	4,800.00
-----	--	-----------	----------

Programme Country students	Nr	Tuition EMSE	To Partner per student	Total to partner	Admin reserve (FUB)
1st year	2	4,250.00	1,065.00	2,130.00	850.00
2nd year	1	4,250.00	1,065.00	1,065.00	425.00

Tot		3,195.00	1,275.00
-----	--	----------	----------

Tot		24,315.00	6,075.00
-----	--	-----------	----------

Administrative reserve		6,075.00
------------------------	--	----------

Lump sum	Contribution for Scholar	Total contribution	
		0.00	
		Total	
Total		24,315.00	

OY

2018-2019					
Partner Country students	Nr	Tuition EMSE	To Partner per student	Left over	Admin reserve (FUB)
1st year	4	6,000.00	3,980.00	15,920.00	2,400.00
2nd year	4	6,000.00	3,980.00	15,920.00	2,400.00

Tot		31,840.00	4,800.00
-----	--	-----------	----------

Programme Country students	Nr	Tuition EMSE	To Partner per student	Total to partner	Admin reserve (FUB)
1st year	1	4,250.00	2,405.00	2,405.00	425.00
2nd year	2	4,250.00	2,405.00	4,810.00	850.00

Tot		7,215.00	1,275.00
-----	--	----------	----------

Tot		39,055.00	6,075.00
-----	--	-----------	----------

Administrative reserve		6,075.00
------------------------	--	----------

Lump sum	Contribution for Scholar	Total contribution	
		0.00	
		Total	
Total		39,055.00	

UPM

2018-2019					
Partner Country students	Nr	Tuition EMSE	To Partner per student	Left over	Admin reserve (FUB)
1st year	6	6,000.00	230.00	1,380.00	3,600.00
2nd year	4	6,000.00	230.00	920.00	2,400.00

Tot		2,300.00	6,000.00
-----	--	----------	----------

Programme Country students	Nr	Tuition EMSE	To Partner per student	Total to partner	Admin reserve (FUB)
1st year	2	4,250.00	-1,345.00	-2,690.00	850.00
2nd year	0	4,250.00	-1,345.00	0.00	0.00

Tot		-2,690.00	850.00
-----	--	-----------	--------

Tot		-390.00	6,850.00
-----	--	---------	----------

Administrative reserve		6,850.00
------------------------	--	----------

Lump sum	Contribution for Scholar	Total contribution	
		0.00	
		Total	
Total		-390.00	

programme students
partner student

1st intake		2nd intake		3rd intake		Total (8)		Total enrolled students
Without JMD support	With JMD scholarship	Without JMD support	With JMD scholarship	Without JMD support	With JMD scholarship	Without JMD support	With JMD scholarship	
2	4	3	3	4	2	9	9	
6	16	7	14	10	6	23	36	
8	20	10	17	14	8	32	45	
28		27		22		77		77

Spare money form second intake

128,160.00

max no. grant 6.408

FUB

2017-2018											
Partner Country students	Nr	Tuition EMSE	To Partner per student	Left over	Admin reserve (FUB)						
1st year	4	6,000.00	3,139.00	12,556.00	2,400.00						
2nd year	5	6,000.00	3,139.00	15,695.00	3,000.00						
Tot				28,251.00		5,400.00					

Programme Country students	Nr	Tuition EMSE	To Partner per student	Total to partner	Admin reserve (FUB)		
1st year	3	4,250.00	1,564.00	4,692.00	1,275.00		
2nd year	3	4,250.00	1,564.00	4,692.00	1,275.00		
Tot				9,384.00		2,550.00	

Tot				37,635.00		7,950.00	
-----	--	--	--	-----------	--	----------	--

Administrative reserve						7,950.00	
------------------------	--	--	--	--	--	----------	--

Lump sum		Contribution for Scholar	Contribution for Project management	Total contribution	
		2,500.00	40,000.00	42,500.00	

programme students partner student	1st intake		2nd intake		3rd intake		Total (6)		Total enrolled students
	Without JMD support	With JMD scholarship	Without JMD support	With JMD scholarship	Without JMD support	With JMD scholarship	Without JMD support	With JMD scholarship	
	2	4	3	3	4	2	9	9	
	6	16	7	14	10	6	23	36	
	8	20	10	17	14	8	32	45	77
	28		27		22		77		

Spare money form first intake	66,633.00
max no. grant	3 33165

Use this money to free resources form other sources and allocated to the project for scholarship

Grants are distributed fairly among partners and disadvantages of partners are considered. Last come FUB

FUB

2016-2017					
Partner Country students	Nr	Tuition EMSE	To Partner per student	Left over	Admin reserve (FUB)
1st year	5	6,000.00	3,139.00	15,695.00	3,000.00
2nd year	5	6,000.00	3,139.00	15,695.00	3,000.00

Tot				31,390.00	6,000.00
-----	--	--	--	-----------	----------

Programme Country students	Nr	Tuition EMSE	To Partner per student	Total to partner	Admin reserve (FUB)
1st year	3	4,250.00	1,564.00	4,692.00	1,275.00
2nd year	2	4,250.00	1,564.00	3,128.00	850.00

Tot				7,820.00	2,125.00
-----	--	--	--	----------	----------

Tot				39,210.00	8,125.00
-----	--	--	--	-----------	----------

Administrative reserve					8,125.00
------------------------	--	--	--	--	----------

Lump sum	Contribution for Scholar	Contribution for Project management	Total contribution	
	2,500.00	40,000.00	42,500.00	

Total			Administrative reserve (FUB)	
Total			81,710.00	32,175.00

UNIKL

2016-2017					
Partner Country students	Nr	Tuition EMSE	To Partner per student	Left over	Admin reserve (FUB)
1st year	5	6,000.00	2,640.00	13,200.00	3,000.00
2nd year	6	6,000.00	2,640.00	15,840.00	3,600.00

Tot				29,040.00	6,600.00
-----	--	--	--	-----------	----------

Programme Country students	Nr	Tuition EMSE	To Partner per student	Total to partner	Admin reserve (FUB)
1st year	3	4,250.00	1,065.00	3,195.00	1,275.00
2nd year	2	4,250.00	1,065.00	2,130.00	850.00

Tot				5,325.00	2,125.00
-----	--	--	--	----------	----------

Tot				34,365.00	8,725.00
-----	--	--	--	-----------	----------

Administrative reserve					8,725.00
------------------------	--	--	--	--	----------

Lump sum	Contribution for Scholar	Total contribution	
	2,500.00	2,500.00	

Total		36,865.00	
-------	--	-----------	--

OY

2016-2017					
Partner Country students	Nr	Tuition EMSE	To Partner per student	Left over	Admin reserve (FUB)
1st year	5	6,000.00	3,980.00	19,900.00	3,000.00
2nd year	6	6,000.00	3,980.00	23,880.00	3,600.00

Tot				43,780.00	6,600.00
-----	--	--	--	-----------	----------

Programme Country students	Nr	Tuition EMSE	To Partner per student	Total to partner	Admin reserve (FUB)
1st year	2	4,250.00	2,405.00	4,810.00	850.00
2nd year	2	4,250.00	2,405.00	4,810.00	850.00

Tot				9,620.00	1,700.00
-----	--	--	--	----------	----------

Tot				53,400.00	8,300.00
-----	--	--	--	-----------	----------

Administrative reserve					8,300.00
------------------------	--	--	--	--	----------

Lump sum	Contribution for Scholar	Total contribution	
	2,500.00	2,500.00	

Total		55,900.00	
-------	--	-----------	--

UPM

2016-2017					
Partner Country students	Nr	Tuition EMSE	To Partner per student	Left over	Admin reserve (FUB)
1st year	6	6,000.00	230.00	1,380.00	3,600.00
2nd year	5	6,000.00	230.00	1,150.00	3,000.00

Tot				2,530.00	6,600.00
-----	--	--	--	----------	----------

Programme Country students	Nr	Tuition EMSE	To Partner per student	Total to partner	Admin reserve (FUB)
1st year	1	4,250.00	-1,345.00	-1,345.00	425.00
2nd year	0	4,250.00	-1,345.00	0.00	0.00

Tot				-1,345.00	425.00
-----	--	--	--	-----------	--------

Tot				1,185.00	7,025.00
-----	--	--	--	----------	----------

Administrative reserve					7,025.00
------------------------	--	--	--	--	----------

Lump sum	Contribution for Scholar	Total contribution	
	2,500.00	2,500.00	

Total		3,685.00	
-------	--	----------	--

programme students partner student	1st intake		2nd intake		3rd intake		Total (B)		Total enrolled students
	Without JMD support	With JMD scholarship	Without JMD support	With JMD scholarship	Without JMD support	With JMD scholarship	Without JMD support	With JMD scholarship	
	2	4	3	3	4	2	9	9	
	6	16	7	14	10	6	23	36	
	8	20	10	17	14	8	32	45	77
	28		27		22		77		

The self-paying students of the first intake correspond to number of actual students enrolled in 2013-2015 (No Erasmus Mundus funds)

Figures do not count second year students enrolled in 2014-2016

FUB

2015-2016						
Partner Country students	Nr	Tuition EMSE	To Partner per student	Left over	Admin reserve (FUB)	
1st year	5	6,000.00	3,139.00	15,695.00	3,000.00	
2nd year	0	6,000.00	3,139.00	0.00	0.00	

Tot	15,695.00	3,000.00
-----	-----------	----------

Programme Country students	Nr	Tuition EMSE	To Partner per student	Left over	Admin reserve (FUB)	
1st year	2	4,250.00	1,564.00	3,128.00	850.00	
2nd year	0	4,250.00	1,564.00	0.00	0.00	

Tot	3,128.00	850.00
-----	----------	--------

Tot	18,823.00	3,850.00
-----	-----------	----------

Administrative reserve		3,850.00
------------------------	--	----------

Lump sum	Contribution for Scholar	Contribution for Project management	Total constitution	
	2,500.00	40,000.00	42,500.00	
			Total	Administrative reserve (FUB)
Total			61,323.00	15,750.00

UNIKL

2015-2016						
Partner Country students	Nr	Tuition EMSE	To Partner per student	Left over	Admin reserve (FUB)	
1st year	6	6,000.00	2,640.00	15,840.00	3,600.00	
2nd year	0	6,000.00	2,640.00	0.00	0.00	

Tot	15,840.00	3,600.00
-----	-----------	----------

Programme Country students	Nr	Tuition EMSE	To Partner per student	Left over	Admin reserve (FUB)	
1st year	2	4,250.00	1,065.00	2,130.00	850.00	
2nd year	0	4,250.00	1,065.00	0.00	0.00	

Tot	2,130.00	850.00
-----	----------	--------

Tot	17,970.00	4,450.00
-----	-----------	----------

Administrative reserve		4,450.00
------------------------	--	----------

Lump sum	Contribution for Scholar	Total constitution	
	2,500.00	2,500.00	
		Total	
Total		20,470.00	

Text

OY

2015-2016						
Partner Country students	Nr	Tuition EMSE	To Partner per student	Left over	Admin reserve (FUB)	
1st year	6	6,000.00	3,980.00	23,880.00	3,600.00	
2nd year	0	6,000.00	3,980.00	0.00	0.00	

Tot	23,880.00	3,600.00
-----	-----------	----------

Programme Country students	Nr	Tuition EMSE	To Partner per student	Left over	Admin reserve (FUB)	
1st year	2	4,250.00	2,405.00	4,810.00	850.00	
2nd year	0	4,250.00	2,405.00	0.00	0.00	

Tot	4,810.00	850.00
-----	----------	--------

Tot	28,690.00	4,450.00
-----	-----------	----------

Administrative reserve		4,450.00
------------------------	--	----------

Lump sum	Contribution for Scholar	Total constitution	
	2,500.00	2,500.00	
		Total	
Total		31,190.00	

LUPM

2015-2016						
Partner Country students	Nr	Tuition EMSE	To Partner per student	Left over	Admin reserve (FUB)	
1st year	5	6,000.00	230.00	1,150.00	3,000.00	
2nd year	0	6,000.00	230.00	0.00	0.00	

Tot	1,150.00	3,000.00
-----	----------	----------

Programme Country students	Nr	Tuition EMSE	To Partner per student	Left over	Admin reserve (FUB)	
1st year	0	4,250.00	-1,345.00	0.00	0.00	
2nd year	0	4,250.00	-1,345.00	0.00	0.00	

Tot	0.00	0.00
-----	------	------

Tot	1,150.00	3,000.00
-----	----------	----------

Administrative reserve		3,000.00
------------------------	--	----------

Lump sum	Contribution for Scholar	Total constitution	
	2,500.00	2,500.00	
		Total	
Total		3,650.00	

Name		Town
Wuerth Phoenix	WP	Bolzano
Raiffeisen bank	RB	Bolzano
Kiratech, Verona, Italy	KI	Verona
Indian Institute of Information Technology	IIITA	Allahabad
Blekinge Tekniska Hogskola	BTH	Blekinge
Instituto de Ciências Matemáticas e de Computação of Universidade de São Paulo (ICMC-USP)	USP	San Carlos
Federal University of Bahia	UFBA	Bahia
Budapest University of Technology and Economics	BME	Budapest
John Deere,	JD	Kaiserslauter
Fraunhofer Institute	IESE	Kaiserslauter
TIS Innovation Park	TIS	Bolzano
AICA- Associazione Italiana per il calcolo automatico	AICA	Milan
Foundation of FUB	AB_FUB	Bolzano
Tongji University	TU	Shanghai
F-Secure Oyj	FS	Oulu
Nokia Solutions and Networks Oyj	NSN	Oulu
VTT Technical Research Center of Finland	VTT	Oulu
Oulu advisory board (one representative from each associated partner plus prof. Runeson)	AB_OY	Oulu
Oy LM Ericsson Ab	ER	Espoo
Advisory Board of UPM	AB_UPM	Madrid
Free university of Bozen-Bolzano	FUB	Bolzano
University of Oulu	OY	Oulu
Universidad Politécnica de Madrid	UPM	Madrid
Technische Universität Kaiserslautern	UNIKL	Kaiserslauter

Country	Type
Italy	Company
Italy	Company
Italy	Company
India	Partner Country academic
Sweden	Programme country academic
Brazil	Partner country academic
Brazil	Partner country academic
Hungary	Programme country academic
Germany	Company
Germany	Advisory board and supporter
Italy	Association of enterprises
Italy	Professional association, supporter, and certifier
Italy	Advisory board and supporter
China	Partner country academic
Finland	Company
Finland	Company
Finland	Research center
Finland-Sweden	Advisory board
Finland	Company
Spain	Advisory board
Italy	Full partner
Finland	Full partner
Spain	Full partner
Germany	Full partner

Last name	First name	Gender	Nationality	Paths	First Job/Employment	Granted
Kaulins	Raimonds	M	Latvian	BTH-FUB		No
Tymsan	Romuald	M	Lithunian	BTH-FUB	Project Manager Clinical Data at AO Foundation	No
Guadagnini	Luca	M	Italian	FUB-BTH	Developer/Analyst at Saidea Informatica S.r.l	No
Meierhofer	Stefan	M	Italian	FUB-BTH	Doctorate at the University of Nottingham. UK	No
Banelis	Justas	M	Lithunian	FUB-BTH		No
Tamasauskaite	Migle	F	Lithunian	FUB-UPM	System Analyst at UAB Iterija	No
Proscsevicius	Arunas	M	Lithunian	FUB-BTH		No
Milierius	Egidijus	M	Lithunian	FUB-UPM	Consulting IT Specialist at IBM	No
Dominauskas	Gvidas	M	Lithunian	FUB-UKL	PASS Consulting Group, Fraunhofer ITWM, Fraunhofer IESE	No
Kacan	Denis	M	Lithunian	FUB-BTH	Consultant at ERP	No
Sidlauskas	Darius	M	Lithunian	FUB-BTH	Visiting researcher at Columbia University	No
Unterkalmsteiner	Michael	M	Italian	FUB-BTH	Doctorate at BTH, Sweden	No
Goncalves Grossi	Lucas	M	Brazilian	FUB-UPM	Research Fellow of the OTT at Unversidad Politenica de Madrid	No
Sufian	Md. Abu	M	Bangladesh	FUB-UKL	Software Engineer, EuroAvionics Navigationssysteme GmbH & Co. KG, Pforzheim, Germany	Yes
Kankanala	Srilakshmi	F	Indian	FUB-UKL	Software Testing Engineer, IBM India	Yes
Permadi	Rahadian Bayu	M	Indonesian	FUB-BTH	Software Engineer in Amadeus S. A.S., France	Yes
Cheng	Chow Kian	M	Malaysian	FUB-BTH	Software Engineer in GE Healthcare, Freiburg, Germany	Yes
Ong	Annie Chun Hui	F	Malaysian	FUB-UKL		Yes
Karlík	Lubomír	M	Slovakian	FUB-UKL	IT consultant in ZEB/ROLFES Schiererbeck Associates	No
Moriggl	Irene	F	Italian	FUB-BTH	High school teacher in Bozen, Italy	No
Tribus	Hannes	M	Italian	FUB-BTH	Private company in Bozen, Italy	No
Albero Pomar	Filipe	M	Brazilian	FUB-UPM	Java Middleware Developer & Support at IG Index, UK	Yes
Zahra	Fatimah	F	Indonesian	FUB-UKL		Yes
Usman	Syed	M	Indian	BTH-FUB		Yes
Hardi	Josef	M	Indonesian	BTH-FUB	Temporary research contract at FUB, Italy	Yes
Regmi	Khushal	M	Nepali	UPM-FUB		Yes
Nguyen	Thi Thanh Loan	F	Vietnamese	FUB-BTH	will do Doctorate at FUB	Yes
Okonkwo	Joy Ukamaka	F	Nigerian	UPM-FUB		Yes
Samaranayake	Hettige Don Ignatious Nuwan Sanka	M	Sri Lanka	FUB-UPM		Yes
Phaphoom	Nattakarn	F	Indonesian	BTH-FUB	Doctorate at FUB	Yes
Bandara	Manamperi Mudiyansele Nilupa Niroshini	F	Sri Lanka	FUB-UPM		Yes
Arif	S. M. Taslim	M	Bangladesh	FUB-UKL	Engineer (Software Architecture) at Fraunhofer IESE, Germnay	Yes
Berliana	Rosulla Topan	M	Indonesian	UKL-FUB	Business Analyst & Project Coordinator, Bank of Tokyo-Mitsubishi UFJ, Jakarta	Yes
Rodriguez	Jessica	F	Colombia	BTH-FUB	Derga consulting, Bolzano, Italy	Yes
Kosumo	Kosumo	M	Indonesian	UKL-FUB		Yes
Cypriano Saca	Gabriel	M	Brazilian	BTH-FUB	Founder at Songwich	Yes
Zahda	Showayb A. A.	M	Palestinian	FUB-BTH		Yes
Curtino	Diego Mauricio	M	Argentinan	FUB-UPM		Yes
Arango Espinal	Sandra Liliana	F	Colombia	FUB-UKL	Quality Engineer en Wirecard AG, Mannheim, Germany	Yes
Londero de Oliveira	Glaucia	F	Brazilian	FUB-UPM		Yes
Hermawan	Antonius	M	Indonesian	UPM-FUB	Business Intelligence Delivery Head at PT Cybertrend Intrabuana, Indonesia	Yes
García Pimentel	Santiago	M	Mexican	FUB-UPM	CQ5 Software Engineer at Netcentric - Enterprise Web Excellence, Spain	Yes

Wulandari	Marianti Putri	F	Indonesian	FUB-UKL	Software Developer at Transoffice, Frankfurt, Germany	Yes
Koroleva	Natalia	F	Russian	FUB-UPM		Yes
Milyutin	Konstantin	M	Russian	FUB-UKL	SAP, Torus Consult. Mannheim, Germany	Yes
Shebre	Elsabeth Getachew	F	Ethiopian	BTH-FUB	Developer at Tata Consultancy Services, USA	Yes
Paternoster	Nicolò	M	Italian	FUB-BTH	Co-founder at Milkplease Ltd	No
Giardino	Carmine	M	Italian	FUB-BTH	Phd student at FUB	No
Vidal	David	M	Colombia	UPM-FUB	Software developer at Morpho Colombia	Yes
Quintana Aguilar	José Mauricio	M	Argentinan	UPM-FUB	Lead Software Engineer at GE Aviation, Mexico	Yes
Chacón Salas	Luis Carlos	M	Costa Rica	FUB-UPM	Software Developer at Intertec International	Yes
Cioroica	Emilia	F	Romanian	FUB-UPM	Researcher on Software Development for Embedded Systems at Fraunhofer IESE, Germany	Yes
Corlaci	George Lucian	M	Romanian	UPM-FUB	Front-End Developer at sercure.me, Germany	Yes
Mitrea	Adrian	M	Romanian	UPM-FUB	Software developer at esox, Bologna, Italy	Yes
Norarakarnkorn	Wannee	F	Thailand	FUB-BTH	Business Support Specialist at ExxonMobil, Thailand	Yes
Ramaglietta	Davide	M	Italian	FUB-UPM	Software Engineer, Back End at Unipagos, Germany	No
Tran	Huynh Khanh Vi	F	Vietnamese	BTH-FUB	to graduate	Yes
Jaber Ibraheem	Razan	F		FUB-UNIKL	to graduate	No
Bogo	Artiona	F	Albania	UKL-FUB	Software Engineering at Hewlett-Packard, Stuttgart, Germany	Yes
Singha Roy	Nivir Kanti	M		UKL-FUB		Yes
A.K.M	Moinul Islam		Bangladesh	UKL-BTH	Software Engineer in Insiders Technologies, Kaiserslautern, Germany	Yes
Santoso	Rahmat Bagas		Indonesian	UKL-UPM	Information Analyst in Atos Worldline, Frankfurt, Germany	Yes
Saxena	Himanshu		Indian	UPM-UKL	Software Engineer in Insiders Technologies, Germany	Yes
Omer	Mohammed		Eritrean	UPM-UKL	Software Developer in LHS AG, Frankfurt, Germany	Yes
Anwar Raduan	Hafizul		Malaysian	UPM-FUB	Software Developer in Bosch Access Control Systems, Aachen, Germany	No
Lu	Qifei		Chinese	UKL-BTH	Software Developer in Markit Financial Information Services, Frankfurt, Germany	Yes
Gomez del Castillo	Arturo			UPM-FUB	Rich Media Technology Specialist at Google London, United Kingdom	No
Faisal Inam	Muhammad		Pakistan	BTH-UKL	Senior Software Engineer, Business Analytics, Islamabad, Pakistan	Yes
Ai Goh	Wan		Malaysian	BTH-UKL	Software Engineer in Insiders Technologies, Kaiserslautern, Germany	Yes
Nguyen Duc	Anh	M	Vietnamese	BTH-UKL	Phd Student in Norwegian University of Science and Technology (NTNU), Trondheim, Norway	Yes
Tran Ngoc Nha	Vi	F	Vietnamese	BTH-UKL	Software Developer in CASIS International, Singapore	Yes
Martin	Vigo		Spanish	UPM-BTH	Software Engineer in Apple Inc	No
Lozano	Gabriel		Colombia	UPM-UKL	web developer, Teamware GmbH, München	Yes
Edi	Edi		Indonesian	UKL-BTH	Senior analyst, DB Risk Center GmbH, Berlin	Yes

Slavisa	Avramovic		Montenegro	UKL-UPM	Software Architect at Halldis in Serbia	Yes
Tshering	Nima		Bhutan	BTH-UKL	Software Engineer at Zhibsel Consulting, Bhutan	Yes
Herbert	Gomez		Colombia	UKL-UPM	Enterprise architect at Bancolombia, Colombia	Yes
Olesia	Oliinyk		Ukraine	UKL-BTH	Software Engineer at Capgemini, Frankfurt, Germany	Yes
Nguyen	Nga	F	Vietnamese	UPM-UKL	Business Analyst at HarveyNash, Vietnam	Yes
Miao	Fang		Chinese	BTH-UKL	PhD student at Siemens, Erlangen, Germany	Yes
Tran Can Cuong	Qui		Vietnamese	BTH-UKL	Manager Quality Assurance at XING, Hamburg, Germany	Yes
Mercado Herbas	Jose Antonio	M	Bolivian	BTH-UKL	Citrix Online, Karlsruhe, Germany	Yes
Selleri Rocha	Adriana	F	Brazilian	UKL-UPM	Business Analyst at Tipico, Malta	Yes
Sheran	Archibald		Mexican	UPM-UKL	System Developer at COMVEL, Munich, Germany	Yes
Chtivelband	Igor		Israel	BTH-UKL	Software Developer at SumUp, Berlin, Germany	Yes
Rojo	Elena	F	Spanish	UPM-UKL	Software Developer at Actiworks Application Solutions, Munich, Germany	No
Gallego	Pablo		Spanish	UPM-UKL	Android Developer at Konica Minolta, Hannover, Germany	No
Settenvini	Matteo		Italian	BTH-UKL	Software Engineer at Yatta Solutions, Kassel, Germany	Yes
Amorim	Tiago		Brazilian	BTH - UKL	Researcher at Fraunhofer IESE, Kaiserslautern, Germany	Yes
Morales	Marco Antonio	M		BTH - UKL	to graduate	Yes
Nicolaus	Bob		Indonesian	UPM-BTH	Software Engineering Intern at ABB Zürich Area, Switzerland	Yes
Nokhodian	Morteza		Persian	UPM-UKL	Research intern at John Deere	Yes
Norakarnkorn	Wanee		Thailand	FUB-BTH		Yes
Sobala	Tomasz	M	Polish	BTH - UKL	Software Developer (Java SE & Java EE) Warsaw, Masovian District, Poland	Yes
Sastre	Sergio	M	Spanish	UPM-UKL	to graduate	No
Pardo	Manuel	M	Spanish	UPM-UKL	Technical Specialist - Sterling B2B IBM	No
Collarana	Diego	M	Spanish	UPM-UKL	Software Engineer Deutsches Forschungszentrum für Künstliche Intelligenz (DFKI)	No