

# MASTERS ON PHOTONIC NETWORKS ENGINEERING (MAPNET)

academic years 2014/2016

## CALL FOR APPLICATIONS

### Art. 1

#### Description and Activation of the Masters

The MAsters on Photonic NETworks Engineering (MAPNET) is a full time two-year programme, focused on the competence related to the generation, manipulation, transport and detection of signals exploiting photons as a support to convey information. This area is currently recognised as one of the most significant within Information and Communication Technologies (ICT) and the enabling architectures for the future Internet. In fact, the increasing quantity and importance of data exchange and relevant services in next generation Internet requires to utilise in an efficient manner advanced technologies such as data transport over optical fibers.

The initiative is structured into two main paths: a local one, which will develop exclusively in Italy at Scuola Superiore Sant'Anna and an international one, under the Erasmus Mundus programme. The next edition of the two-year MAPNET Masters will start in the academic year 2014/2016 and will take place in the buildings and relevant laboratories of the universities involved, starting on the month of September/October 2014 and ending on the month of September/October 2016.

The MAPNET Erasmus Mundus international path of the Masters develops in the framework of the Erasmus Mundus programme. The MAPNET Masters was selected by the European Commission within the framework of the 2009 Erasmus Mundus Call (EAC/04/09), as part of Action 1 – Joint Masters Course. The Masters was jointly submitted from a Consortium of four universities: Scuola Superiore Sant'Anna, as project coordinator, together with Technische Universität Berlin, Germany; Aston University, United Kingdom; and Osaka University, Japan. The present call refers to the fifth call in the Erasmus Mundus framework and will strictly follow the provisions of the European Commission as established in the Erasmus Mundus 2009-2013 Programme Guide available at: [http://eacea.ec.europa.eu/erasmus\\_mundus/programme/programme\\_guide\\_en.php](http://eacea.ec.europa.eu/erasmus_mundus/programme/programme_guide_en.php). The international path includes a mandatory student mobility component in at least two of the participating European institutions. The complete mobility options will be provided by the student after the selection procedure.

The MAPNET local path consists of a University Masters – 1<sup>st</sup> level degree and is offered exclusively by Scuola Superiore Sant'Anna for the academic years 2014/15 and 2015/16, in accordance with Art. 3 of the School Charter. The Masters takes place at Institute of Communication, Information and Perception Technologies (from now on “TeCIP”)– of Scuola Superiore Sant'Anna, Pisa.

### Art. 2

#### Aims

The main objective of the MAPNET Masters consists in developing the technical and cultural background as well as to develop the competence of a high-level professional profile in the area of Information Technology, highly competitive at the international level. The graduated will have capacity to manage and control advanced technologies in ICT, Software Engineering and

Telecommunication Engineering, in particular the design and management of nodes and their interconnection in heterogeneous configuration. Through high quality and keenly focused courses and seminars, and accessibility to hi-tech experimental apparatus, the Masters aims to provide high-calibre training in an area where advanced technology and future infrastructures and services merge to pave the way to the next generation Internet.

The MAPNET joint programme, in its international part, has been created in order to render participating institutions reciprocal benefits in the areas of methodology, content development and knowledge exchange. As photonic and integrated network technologies mature, their importance will continue to grow. MAPNET is based upon an innovative programme in order to provide well-trained and resourceful researchers and to establish and cultivate close links between different countries operating in the field. The structure of the proposed Masters provides an added value in terms of the specific expertise available in the various institutions, reflected in the specific combination and integration of courses offered, as well as in terms of the enrichment of the personal student experience in an international environment, which is absolutely relevant to the specific field of activity, as the working context in the field is global by nature.

### **Art. 3 Masters Structure and Organisation**

The Masters study programme in both its parts, local and international, is divided into four semesters. Each semester allows 30 ECTS to be gained for a total amount of 120 ECTS. The first three semesters are based on traditional courses, laboratory exercise and sessions, while the last is based on independent work related to the Masters thesis.

Participation in courses is compulsory and student attendance will be monitored. Students will not be allowed to miss more than 20% of the courses in each of the institutions. At the end of each course, students will undergo an achievement evaluation test, which will lead to the attainment of the corresponding credits. This test will be organised at the discretion of the responsible teacher through a written or oral exam, the submission of documentation, laboratory practice tests, or a combination of all of these evaluation methods.

The MAPNET local path is organised over two periods with distinct training objectives, one propaedeutic with respect to the other. The first period, related to the teaching part, is divided in three consecutive semesters for a total amount of 950 hours of class lectures and lab training. Classes will be shared with the students following the international path. The first period envisions a total of 95 credits on the basis of common courses, in full in the first and second semester, partially in the third semester. The objective of the first period is the transmission of competence through front teaching, lab training, stand-alone review of material and specialized seminars of universities and companies representative researchers as well. The table below reports the entire training programme at Scuola Superiore Sant'Anna for the first three semesters:

TEACHING MODULES	ECTS
<b>FIRST SEMESTER (1<sup>st</sup> year)</b>	<b>30</b>
Communication Theory and Digital Transmission	4
Communication Networks	4
Stochastic Processes and Queuing Theory	6
Electromagnetic fields and propagation I	2
Real-Time Systems	5
Network Management Systems*	3
Virtual Environments	3
Lab. of Virtual Environments	3
<b>SECOND SEMESTER (1<sup>st</sup> year)</b>	<b>30</b>
Fundamentals of Applied Optics	4
Electromagnetic Fields and Propagation II	2
Fundamentals of Optical Communications	3
Wireless Communication Networks	2
Design of Access, Metro and Core Networks	4
Network Optimization	3
Lab of Network Software	3
Lab of Traffic Engineering	3
Photonic Integrated Technologies 1	3
Photonic Integrated Technologies 2	3
<b>THIRD SEMESTER (2<sup>nd</sup> year)</b>	<b>(at least 30)</b>
Photonic Integrated Circuits	3
Design of Optical Communication Systems	3
Optical Amplification and Fibre-Optic sensing	3
Performance Evaluation of Communication Systems	6
PIC Packaging	3
Advanced Topics in Networks**	2
Lab of Photonic Switching – First Part	4
Lab of Photonic Switching – Second Part	2
Lab of Photonic Systems – First Part	4
Lab of Photonic Systems – Second Part	2
Lab of Photonic Amplification and Components – First Part	4
Lab of Photonic Amplification and Components – Second Part	2

\* Depending on lesson schedule, 2<sup>nd</sup> year students can choose Network Management Systems course too.

\*\* Course offered during the fourth semester, to be taken when a thesis in optical networking is pursued

The second period corresponding to the fourth (last) semester, envisions the original development and relevant preparation of a written dissertation (Master thesis) developed in the laboratories of the TeCIP Institute Labs. This period has the scope to complement the in-class training with an operative direct experience, in which the competence acquired during the first period can be efficiently spent. Master thesis developed in laboratories of partner companies or institutions shall be authorised, as an exception, from the Master coordinators. The Masters thesis with an overall duration of approximately 750 hours, allows to gain 30 University Credits. The course portfolio of the MAPNET Masters local path constitutes the set of courses that can be taken during the sojourn at Scuola Superiore Sant'Anna within the framework of the MAPNET Erasmus Mundus international path.

The MAPNET Erasmus Mundus international path develops in the premises of the participating institution of the MAPNET Erasmus Mundus Consortium. Different mobility paths are envisioned depending on the mobility options selected and the modules taken by the prospective students. The first year of the Masters (i.e. the first and second semester of the Masters course) will be spent in the same institution. The first year will cover basic subjects and provide a solid background to face the second year. Each institution provides a different selection of courses in the first year to allow students to match them to their prior knowledge and preferences. The final year consists of more specialist course culminating in a six month research project. The third semester of the Masters will be spent in a different institution, while the Masters thesis can be done in any of the Masters partner institutions. The third semester will cover specialisation courses in view of the independent project developed during the last semester of the project and which will be reported in the Masters thesis.

Osaka University has semesters which are skewed with respect to the European standard semester schedule (fall/spring). Hence students cannot start their Masters Program from Osaka University. Students will be able to join Osaka University on the third or fourth semester of the Masters.

The Masters study programme and the details of the modules offered in the four participating institutions are available at: <http://mapnet.sssup.it/programme/index.html>.

The students will have the possibility to choose between two options regarding the preferred two starting institutions for the first year of Masters activities at the time of application and the complete mobility plan will be defined after the selection process. Students will be subject to the local rules of each of the hosting institutions regarding in particular the local policies on exams and available attempts for students.

#### **Art. 4 Degrees Awarded**

At the end of the MAPNET local path, those students who have attended at least 80% of the entire teaching program and have passed all the required examinations will receive from Scuola Superiore Sant'Anna a University Master – 1st level degree, stating the gained University credits, in accordance with art. 3 of D.M. 207/2004. The Masters on Photonic Networks Engineering Diploma in Italy is not accepted as a qualification for accessing to an Italian PhD course.

Those students completing the MAPNET Erasmus Mundus international path will receive double degrees (i.e. two national diplomas issued by two institutions of the Consortium) depending on the mobility periods chosen and the plans of studies agreed after the beginning of the Masters. Each institution will be responsible for the issuing of the title it awards. Hence, the institutions of the Consortium will release national degrees and reciprocally recognise any teaching module attended in the other institutions. Awarded degrees will be accompanied by a single Diploma Supplement released by the Consortium, which describes the educational mobility program followed by the student. The following table details the title of the possible degrees awarded within the MAPNET Programme, according to the issuing institution:

<b>Name of institution</b>	<b>Title of degree awarded</b>
Scuola Superiore Sant'Anna	Masters on Photonic Networks Engineering
Technische Universität Berlin	Master in Elektrotechnik
Aston University	Masters of Science (MSc) in Photonic Networks
Osaka University	Master in Engineering

## **Art. 5 Admission Requirements**

Both EU and non-EU applicants shall have a shall have a Bachelor degree in Electrical Engineering, Electronics, Telecommunication Engineering, Computer Science, Physics or other degrees in scientific areas that can be assimilated, and which will be evaluated on a case by case basis from the Evaluating Committee, or have gained a minimum of 180 ECTS in one of these Bachelor degree programmes. Students who are enrolled in a three-year university program and expect to gain such qualifications within June 30<sup>th</sup>, 2014 are also eligible.

The candidates shall have a good knowledge of the English language, proved by a proficiency certificate (TOEFL, IELTS, Cambridge, Medium of Instruction or other forms of statement). Self-declaration of proficiency is not acceptable and will automatically exclude the applicant.

If a candidate wishes to join the international path starting from Aston University or spend more than one year there, the requirements are:

- IELTS 6.5 overall with min 6.0 in each section;
- TOEFL IBT 100 overall with minimum of 21 in Writing and Listening, 22 in Reading and 23 in Speaking ;
- Pearson Academic score of 61 overall with minimum 59 in each area.

Technische Universität Berlin requires certificated German language knowledge. The following certificates will be accepted: passed DSH 2, TestDaF (at least 16 points) or an equivalent (legalized copy). The certificate must be presented before the beginning of the 2<sup>nd</sup> semester to allow the student to improve his/her German language knowledge once arrived in Berlin. For admission Technische Universität Berlin also requires an English language certificate:

- TOEFL-Test internet based (at least 80 points)
- FCE FIRST Cambridge Certificate of English (level B)
- IELTS International English Language Testing System (at least 5 points)
- UNICert II
- CET-6

All requisites shall be possessed by the perspective students within the submission deadline as stated in following Art. 8.

## **Art. 6 Application Procedure for Students**

All Applicants to the local and international paths shall enter their application exclusively on-line, at <http://mapnet.sssup.it> stating the following information:

- a) Surname; forename; place/country and date of birth; citizenship(s); gender; marital status; disabilities;
- b) permanent address and mail address (if different), where applicants wish to receive paper communications concerning the application; phone, e-mail and skype contacts;
- c) university career: academic title, degree awarding date, university and final score (if applicable), academic year of beginning of BSc's studies, standard duration of courses,

average score of exams taken. EU applicants who expect to graduate or gain 180 ECTS within June 30<sup>th</sup>, 2014 shall indicate the provisional date of these achievements (graduation or ECTS achievements);

- d) level of knowledge of the English language and other foreign languages;
- e) commitment to notify any change of address or e-mail contact to the Masters Secretariat;
- f) choice of local path, international path, local path without a scholarship, international path without an Erasmus Mundus scholarship. Students can select either one, two, three or four options available;

For the MAPNET Erasmus Mundus international path only, applicants shall enter also the following information:

- g) preferred two starting institutions for the first year of Masters activities;
- h) request for an Erasmus Mundus scholarship and corresponding category (either A or B according to the European Commission criteria, as reported in Art.7);

Applicants shall include in the application (all materials shall be in Adobe pdf format and must use the file name shown):

- a) **Cv\_Surname\_Name.pdf**: signed curriculum vitae covering their educational background, cultural and professional experience and all other information that might help in the evaluation of the candidate;
- b) **Certificate\_Surname\_Name.pdf**: copy of Degree Certificate (if applicable);
- c) **Transcripts\_Surname\_Name.pdf**: relevant academic records and transcripts, reporting the final grade and grades earned in individual exams, provided by attaching the copy of the University Transcript or completing the template provided by the application form;
- d) **Motivation\_Surname\_Name.pdf**: motivation letter;
- e) **Passport\_Surname\_Name.pdf**: copy of main page(s) of passport;
- f) **Other\_Surname\_Name.pdf**: any other useful documentation for the assessment;
- g) **References\_Surname\_Name.pdf**: two reference letters or Testimonial of Experience (i.e. internship certificates, training attestations; supervisor's e-mail testimony in PDF format; etc...) – not mandatory.
- h) **English\_Surname\_name.pdf**: English proficiency certificate (TOEFL, IELTS, Cambridge or other official certificates).

Those EU and non-EU applicants enrolled in a Bachelor Degree Course, as per Art. 5, who expect to graduate or gain 180 ECTS, are required to submit a certificate or self-declaration of the attained university degree/ECTS within June 30<sup>th</sup>, 2014.

Applications with missing information will not be considered valid. Requests for the completion of application documents must be fulfilled within two days of the e-mail notification sent by the Masters secretariat.

Forged deeds and false statements shall be punished in accordance with the Criminal Code and any other applicable law of the involved countries.

Applications shall be submitted according to the established various deadlines as provided for in art. 8.

## **Art. 7 Scholarships for Students**

Both local and international paths include the possibility to award scholarships to their applicants.

In the framework of the MAPNET local path, in order to encourage the participation of deserving applicants, TeCIP Institute makes available one scholarship for the first year of the Program, reserved to the first ranked applicants. The scholarship covers the annual tuition fee to the Masters (including national health and accident insurance), the board and lodging of the awarded student. Board and lodging will be provided and chosen by Scuola Superiore Sant'Anna. For the second year of the Masters Program, TeCIP Institute makes available one scholarship reserved to the student who registers the best academic performance in the first academic year. The scholarship consists in the same benefits of the first year grant.

In the framework of the MAPNET Erasmus Mundus international path, EU and Third-country applicants to MAPNET can apply for an Erasmus Mundus scholarship in accordance with the criteria of the European Commission. The application procedure and scholarships available differ depending on whether an applicant is considered a “European” or a “Third-country” student<sup>1</sup>.

The Erasmus Mundus programme provides for two different kind of scholarships, as follows:

**CATEGORY A:** full-study scholarship covering all necessary costs during the study course period for “third-country” students.

**CATEGORY B:** financial contribution to the students that do not fall within the “Third-country” applicant definition (i.e. European students and Third country students having been residents of, or carried out their main activities (studies, work, etc.) in, any of the below-mentioned countries for more than a total of 12 months over the last five years.

		<b>Category A</b>	<b>Category B</b>
<b>Amount I</b>	<i>Contribution to travel, installation and anyother type of costs</i>	€ 4.000,00 / year	€ 3.000,00 - only if the Study Plan includes a mobility period to a Third-Country partner
<b>Amount II</b>	<i>Maximum EC contribution to the Masters participation costs (tuitions, insurancecoverage, ...)</i>	€ 8.000,00 / year	€ 4.000,00 / year
<b>Amount III</b>	<i>Monthly allowance</i>	€ 1.000,00 / month	€ 500,00 / month
	<b>TOTAL</b>	<b>€ 48.000,00</b> for a two-year stay	From <b>€ 20.000,00</b> without mobility to a Third Country, up to <b>€ 23.000,00</b> for a two-year study course with mobility to a Third Country

Regarding the Erasmus Mundus scholarship awarding, MAPNET will strictly comply with the binding provisions of the European Commission as established in the Erasmus Mundus 2009-2013 Programme Guide available at:

[http://eacea.ec.europa.eu/erasmus\\_mundus/programme/programme\\_guide\\_en.php](http://eacea.ec.europa.eu/erasmus_mundus/programme/programme_guide_en.php).

The awarding of one of the above mentioned scholarships will be notified to the applicants, along with their admission to the Masters, as established in art. 9, via e-mail only. Any communication regarding this call shall be transmitted exclusively via e-mail at [mapnet@sssup.it](mailto:mapnet@sssup.it).

<sup>1</sup> Third-country applicant are citizens coming from all countries other than:

- 1) The 27 EU Member States (Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, The Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, The UK)
- 2) The EEA-EFTA states (Iceland, Liechtenstein and Norway)

Applicants having not been residents of, or carried out their main activities (studies, work, etc.) in, any of the above countries for more than a total of 12 months over the last five years.

## **Art. 8 Deadlines**

The application to the MAPNET Masters paths and scholarships shall be submitted according to the requirements and procedures established in articles 5 and 6, by the following deadlines:

MAPNET local path with scholarship: **27 March 2014 (10 am GMT)**.

MAPNET local path without scholarship: **27 March 2014 (10 am GMT)**.

MAPNET Erasmus Mundus international path for “Third-country” applicants applying for a scholarship under category A: **9 January 2014 (10 am GMT)**.

MAPNET Erasmus Mundus international path for European Union applicants and non-EU applicants having been residents of, or carried out their main activities (studies, work, etc.) in, any of the above countries for more than a total of 12 months over the last five years applying for a scholarship under category B: **9 January 2014 (10 am GMT)**.

MAPNET Erasmus Mundus international path without scholarship: **27 March 2014 (10am GMT)**.

## **Art. 9 Student Selection Process and Scholarship Awarding**

A Selection Committee, appointed by the Scuola Superiore Sant’Anna reviews the certificates and curriculum vitae of each candidate applying for the MAPNET Masters local path .

The Committee will include members of the MAPNET Erasmus Mundus partner institutions, as candidates applying for an Erasmus Mundus scholarship will undergo a double evaluation.

The Committee will select candidates by rating them using a scale with a maximum score of 100 points, divided as follows:

- study curriculum (average mark of all university exams, thesis mark, relevance of the curriculum and dissertation thesis to the Masters programme), up to 70 points;
- previous professional and/or research experience in the sector, up to 10 points;
- foreign languages, up to 10 points;
- motivation and reference letters, up to 10 points;

In order to clarify some aspects of the received applications, the Selection Committee may require certain applicants to attend an interview (even through telematic means). Applicants who are required to attend an interview will be notified only via e-mail.

Those who have been awarded an overall score of at least 70/100 points are eligible to be admitted to attend the Masters Programme.

Four ranking lists will be provided:

### **MAPNET Erasmus Mundus international path**

A first ranking list (n.1) will be provided on the basis of the applications received within January 9<sup>th</sup> for the awarding of the Erasmus Mundus Scholarships category A. Depending on the number of scholarships that are assigned by the European Commission, a corresponding number of best-



ranked students will be awarded scholarships, respecting the country balance criterion and the mobility constraints, as established in the above-mentioned European Commission Programme Guide. This ranking will be posted after March 31<sup>st</sup>, following the European Commission validation, along with a reserve list.

Applicants above the eligibility threshold (70/100), but ranked in a position such that they are not eligible for an Erasmus Mundus scholarship, will be re-considered for admission without scholarship in ranking list n. 3 only if they request it in the online application form.

A second ranking list (n.2) will be provided on the basis of the applications received within January 10<sup>th</sup> for the awarding of the Erasmus Mundus Scholarships category B. Depending on the number of scholarships that are assigned by the European Commission, a corresponding number of best-ranked students will be awarded scholarships, respecting the country balance criterion and the mobility constraints, as established in the above-mentioned European Commission Programme Guide. This ranking will be posted after March 31<sup>st</sup>, following the European Commission validation, along with a reserve list.

Applicants above the eligibility threshold (70/100), but ranked in a position such that they are not eligible for an Erasmus Mundus scholarship, will be re-considered for admission without scholarship in ranking list n. 3 only if they request it in the online application form.

A third ranking list (n.3) will be provided for admission of students without Erasmus Mundus scholarships (regardless of citizenship) building a new ranking list based on all applications received before March 27<sup>th</sup>, including those students who were not eligible for scholarships in either category A or category B applications. This ranking will be posted after April 30<sup>th</sup> along with a reserve list.

#### **MAPNET local path**

A fourth ranking list (n.4) will be provided in the framework of the MAPNET local path on the basis of the applications received within March 27<sup>th</sup> both for the awarding of the available scholarships and the participation without a scholarship. This ranking will be posted after April 30<sup>th</sup> along with a reserve list.

The total number of admitted students cannot exceed 25 per institution.

At the end of each selection procedures, according to the deadlines provided in art. 8 and, where necessary after the European Commission validation, the Selection Committee will post on the MAPNET website the list of admitted applicants to the Masters. The website will contain the four ranking lists as detailed above. The results of the selection will be timely notified to those applicants who have been admitted to the Masters, via e-mail only.

### **Art. 10 Tuition fees**

#### **MAPNET Erasmus Mundus international path**

Tuition fees differ depending on whether an applicant is considered a “European” or a “Third-country” student:

- European: €3.500,00 per academic year;
- Third-country: €6.500,00 per academic year.

Students awarded an Erasmus Mundus scholarship, either A or B, will have the fees covered and automatically deducted from the Amount II (as per art. 7) of the scholarship.

### **MAPNET local path**

Tuition fees are set to €2.000,00 per academic year (inclusive of lecture attendance, educational materials and tutorship during Masters thesis preparation). The logistics and travel expenses are to be borne by each participant. The School will provide health and accident insurance for the entire period of the Masters.

Students awarded a scholarship from Scuola Superiore Sant'Anna will benefit of a tuition waiver.

### **Art. 11**

#### **Rights and Duties of the Students**

The rights and duties of the students of the Masters Programme in its local path, as well as the relations between the students and the Scuola Superiore Sant'Anna facilities, are regulated by the General Rules and Regulations for University Master – 2<sup>nd</sup> level degree of the Scuola Superiore Sant'Anna and by the Rules and Regulations of the “Masters on Photonics Networks Engineering – local path”.

The rights and duties of the students of the Masters Programme in its International Erasmus Mundus path, as well as the relations between the students and the participating institution facilities, are regulated by a specific “Student Agreement” duly signed by the student and a representative of one of the participating institutions. Students will be subject to the local rules of each of the hosting institutions.

### **Art. 12**

#### **Acceptance – payment methods**

The admitted applicants who wish to attend the Masters Programme shall give confirmation of their acceptance. To confirm, they shall send the following documents to Scuola Superiore Sant'Anna via e-mail ([mapnet@sssup.it](mailto:mapnet@sssup.it)), within 4 days of reception of the admission communication, sent via email as established in art. 9:

- a) Confirmation of attendance of the Masters Programme, signed by the admitted applicant;
- b) Signed copy of Student Agreement (international Erasmus Mundus path);
- c) Valid copy of passport or alternative international ID;
- d) Any other documents required in the admission communication.

Tuition payment method:

1. for students with an Erasmus Mundus scholarship: fees will be directly withheld from the scholarship amount II (see art. 9 – Scholarships) according to the student nationality - whether the applicant is considered as “European” or from a “Third-country”.
2. for students applying for the international path without an Erasmus Mundus scholarship: by bank transfer to Scuola Superiore Sant'Anna bank account, which will be communicated to the candidates in the admission letter. In the event of any student withdrawing from or dropping out of the Programme, after confirmation of attendance, he/she shall not be paid back any amount. Moreover, he/she shall still be bound to pay any fees payable up to the time of withdrawal.
3. for students applying for the local path without a scholarship: by bank transfer to Scuola Superiore Sant'Anna bank account, which will be communicated to the candidates in the admission letter. In the event of any student withdrawing from or dropping out of the Programme, after confirmation of attendance, he/she shall not be paid back any amount. Moreover, he/she shall still be bound to pay any fees payable up to the time of withdrawal.

Applicants selected for scholarship shall inform the Scuola Superiore Sant'Anna of their bank details in order to receive the scholarship for the local path and the Amount I and III of their scholarship as established by the European Commission provisions<sup>2</sup> for the international path.

The Scuola Superiore Sant'Anna and the MAPNET participating institutions (in its international Erasmus Mundus path) may decide to stop the monthly payment in the case that the student does not regularly attend classes or does not respect the study plan agreed with the academic advisor. The student will pay back parts or the total amount of the grant in case of cancellation or discontinuation of the program.

### **Art. 13** **Personal Data and Intellectual Property**

The Scuola Superiore Sant'Anna and the MAPNET participating institutions will use and keep information about the student for administrative and management purposes and for statistical analysis. Medical information will be treated as confidential. All information will be kept for a period in accordance with legal requirements and for administrative purposes.

In accordance with Italian Legislative Decree no. 196 30/06/2003 (Personal Data Protection Code), please note that the personal details collected by Scuola Superiore Sant'Anna, the holder of such data processing, will be only used for the purposes pertaining to the management of this Master Programme, in accordance with the applicable regulations. Scuola Sant'Anna General Director shall be responsible for such data processing. Anyone concerned can assert the rights under art. 7 of the Italian Legislative Decree 196/2003 with the School.

The student commits to follow what is established in the institution's regulations as concerns Intellectual Property policies and standards.

The TeCIP Institute DIRECTOR  
Signed by Prof. Giancarlo Prati

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<sup>2</sup> Amount I (Contribution to student's travel, installation and other personal costs):

Cat. A, at the end of the registration process in two installments;

Cat. B, in preparation of the mobility period in the Third Country.

Amount III (Monthly allowance): transferred on a monthly basis into the student personal bank account.