

**RULES AND REGULATIONS FOR THE STUDENTS OF THE INTERNATIONAL MASTER ON
COMMUNICATION NETWORKS ENGINEERING
A.Y.2010/2012**

**Art.1
(Goals)**

This act concerns the students of the International Master on Communication Networks Engineering (IMCNE) and integrates the General Rules and Regulations for students of the masters/courses organized by the Masters and Training Programmes Division of Scuola Superiore Sant'Anna.

**Art. 2
(Duration of the Master Course)**

The master starts on September 20th, 2010 and ends on September 30th, 2012.

**Art. 3
(University credits)**

The Master envisions the attendance of courses that confer university credits, according to what is stated by the plan of study of the Master.

Acquisition of credits occurs after the proficiency verification of each exam (intermediate and final) is passed and is subject to the respect of the minimum attendance requirements.

In order to pursue the Master degree, it is necessary to acquire at least 120 university credits (CFU).

**Art. 4
(Organization of the Master)**

The Master has a two-year duration and is organized over two periods with distinct training objectives, one propaedeutic with respect to the other.

The first period, related to the teaching part, is divided into three consecutive semesters for a total amount of 990 hours of class lectures and lab training.

The objective of the first period is the transmission of competence through front teaching, lab training, stand-alone review of material and specialized seminars as well as companies representative researchers.

The following table reports the entire training program of the first three semesters.

COURSES	ECTS
FIRST SEMESTER	31
OBJECT ORIENTED SOFTWARE DESIGN	5
COMMUNICATION THEORY AND DIGITAL TRANSMISSION	4
COMMUNICATION NETWORKS	4
SIGNAL THEORY, PHYSICS, CALCULUS	2
PHOTONIC TECHNOLOGIES	3
STOCHASTIC PROCESSES AND QUEUING THEORY	4
MANAGEMENT OF INNOVATION AND TECHNOLOGIES	4
REAL-TIME SYSTEMS	5

SECOND SEMESTER	29
FUNDAMENTALS OF APPLIED OPTICS	4
ELECTROMAGNETIC FIELDS AND PROPAGATION	4
FUNDAMENTALS OF OPTICAL COMMUNICATIONS	3
WIRELESS COMMUNICATION NETWORKS	2
DESIGN OF ACCESS, METRO AND CORE NETWORKS	4
NETWORK OPTIMIZATION	3
SENSOR NETWORKS	3
DESIGN OF OPTICAL COMMUNICATION SYSTEMS	3
OPTICAL AMPLIFICATION AND FIBRE-OPTIC SENSING	3
THIRD SEMESTER – GENERAL COURSES	15
PERFORMANCE EVALUATION OF COMMUNICATION SYSTEMS	6
NETWORKED VIRTUAL ENVIRONMENTS	3
NETWORK MANAGEMENT SYSTEMS	3
LAB. OF VIRTUAL ENVIRONMENTS	3
THIRD SEMESTER / FREE-CHOICE EXAMS	AT LEAST 15
LAB OF NETWORK SOFTWARE	3
LAB OF TRAFFIC ENGINEERING	3
LAB OF PHOTONIC SWITCHING – FIRST PART	3
LAB OF PHOTONIC SWITCHING – SECOND PART	3
LAB OF PHOTONIC SYSTEMS – FIRST PART	3
LAB OF PHOTONIC SYSTEMS – SECOND PART	3
LAB OF PHOTONIC AMPLIFICATION AND COMPONENTS – FIRST PART	3
LAB OF PHOTONIC AMPLIFICATION AND COMPONENTS – SECOND PART	3

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 at the Centre of Excellence for Information Communication and Perception Engineering (CEIICP) 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.

Art. 5 (Masters thesis)

At the end of the Master Programme, the students shall produce a written dissertation (Master thesis) about the activity carried out during the last semester, which is publicly discussed and assessed by a Committee appointed by the Director of the Masters and Training Programmes Division.

The subject of the Master thesis is agreed on by the coordinators of the Master Course and a scientific tutor chosen by the student, taking into account the student's inclinations.

The Master thesis, with an overall duration of 750 hours, allows to gain 30 university credits.

During the last semester the student is mentored by a tutor at the CEIICP Labs. The tutor guides and supports the students in the development of the Master thesis and monitors his/her attendance and progress.

The tutor of the student at the CEIICP labs or at the company/institution sends to the Master Secretariat a monthly form that states the total amount of hours attended by the student in the by the 5th day of each month.

If the Master thesis is developed in laboratories of partner companies or Institutes is defined by a special agreement, according to the regulation in force, which must be signed by the student.

After the written acceptance of the agreement, the student who renounces or interrupts his thesis cannot obtain the Master Degree.

Art. 6
(Lecture hours)

Lectures and practice sessions are given from Monday to Friday, with this schedule:

- Morning: 9.00 – 13.00
- Afternoon: 14.00 – 19.00

Master schedule will be published in the IMCNE website.

Art. 7
(Course location)

All lectures and Lab sessions, of the course, are given in the lecture rooms and Laboratories of the Scuola Superiore Sant'Anna building in the Research Area of CNR (CEIICP, Centre of Excellence for Information, Communication and Perception Engineering).

The admission to the CEIICP building is allowed from 8 a.m. to 8 p.m., from Monday to Friday.

Art. 8
(Compulsory attendance)

The attendance to the Master course is mandatory and is monitored.

Students must register their attendance daily, in the attendance register of each didactic modules.

According to the General Disciplinary Measures for students of the masters/courses organized by the Masters and Training Programmes Division of Scuola Superiore Sant'Anna, student has not to exceed 20% of overall absences, and 25% of single didactic module absences in the first period.

Exceeding the overall absences threshold prevents to obtain the final diploma.

Exceeding the single didactic module absences threshold prevents the passage to the next semester.

The Secretariat of the Master will periodically notify the student the attendance report.

Those signing the attendance register and leaving the classroom before the end of the session without urgent reasons will be considered absents.

It's forbidden to use mobile phones during classes.

Absences caused by serious reasons are justified if properly documented.

The grantees of scholarships, lodging grants and tuition fee withdrawal that do not meet the attendance requirements will be required to refund the grants and tuition fee in full.

Art. 9
(Evaluation procedures)

In order to assess the students proficiency, at the end of the first, the second and the third semester a test is provided for each didactic module, according to the form that teachers will notify in advance.

A student who does not pass the exam or did not attend the first test has another chance. A student not passing the supplementary test cannot continue the Master.

In order to obtain the Master Course certificate, the student must pass all module tests and obtain positive evaluation of the Master thesis from an evaluation committee, appointed through the act of the Director of the Masters and Training Programmes Division.

Art. 10
(Academic Integrity)

While attending the Master Programme, students shall always behave honestly and respectfully towards all persons and structures/facilities, as laid down by the General Rules and Regulations of the School, by the General Rules and Regulations for the students of the Masters and Training Programmes Division, by the General Rules and Regulations for IMCNE students and by the Student Integrity Code of the Master IMCNE (annex 1).

Suspected violations will be handled accordingly.

Art. 11
(Degree awarded)

At the end of the Master Programme, those students who have attended at least 80% of the entire teaching program and have passed all the required examinations receive from Scuola Superiore Sant'Anna a Master of Science Degree (first Level), stating the gained University credits, in accordance with art. 3 of D.M. 207/2004.

Art. 12
(Professors and courses evaluation forms)

Each student is asked to compile, in an anonymous way, an evaluation form related to the didactic activity carried out by each professor as well as to the single courses and to the whole Master Course.

Art. 13
(Tuition fee - Exemptions and Reductions)

The full cost of the Master is Euros 5.000,00 to be paid into two instalments, corresponding to the A.Y. 2010/11 and 2011-12.

First instalment shall be paid within one week from the date of reception of the admission letter.

Second instalment shall be paid by August 31st, 2011.

Tuition fee includes lecture attendance, educational materials and tutorship during Masters Thesis preparation). The logistics and travel expenses are to be born by each participant.

The School will provide private health and accident insurance for the period of the Masters.

For the first academic year the best 5 ranked applicants in the admission list will benefit from a fee waiver. Applicants ranked between the 6th and the 10th position will benefit from a tuition fee reduction of 1.500,00 Euro.

For the second academic year, 5 tuition waivers and 5 tuition fee reductions will be assigned according to the academic performance of the participants.

Payment shall be made by bank transfer to:

Scuola Superiore Sant'Anna

Unicredit Banca S.p.A. Filiale di Pisa, Piazza Garibaldi 1

IBAN CODE: IT 32 0 02008 14006 000401272765

SWIFT CODE: UNCRITM1G12

Reason for payment: "Master on Communication Networks Engineering – Tuition fee A.Y. 2010/2011, student's full name.

Tuition Fees due for the second A.Y. have to be paid by the beginning of the courses of the A.Y. 2011/12, according to the same modalities of the first A.Y. The description of payment shall be: "instalment 2 - IMCNE 2010/12 – A.Y. 2011/2012 - student's full name".

Nonpayment of instalments prevents the access to the Master's courses or to the second A.Y.. 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.

Art. 14 (Lodging Grants)

CEIICP makes available 4 lodging grants equivalent to Euro 5.000,00, reserved to 4 students with the best academic performance.

For the first A.Y. lodging grants will be assigned according to the final ranking list order to applicants who have obtained a score of at least 90/100, after their regular matriculation at the Masters Degree Course. For the second academic year, 4 lodging grants will be assigned to the Masters participants with the best academic performance.

Art. 15 (Accessory services)

Surface Mail: Must be addressed to “**Centre of Excellence for Information Communication and Perception Engineering (CEIICP), Area della Ricerca del CNR (S. Cataldo), Via Moruzzi 1, 56124 – PISA - ITALY**”, specifying “**International Master on Communication Networks Engineering (IMCNE)**”, and the name of the student.

Fax: The students of the Master can receive fax to the **fax number +39-0505492194**, specifying “**International Master on Communication Networks Engineering**”, and the name of the student. Fax are delivered during the lunch break, or at the end of the afternoon lectures.

Library: During the Master Course students can enter into the Library of the Scuola Superiore Sant'Anna, by a card that allows the access for reference or either to borrow the books, under the specific regulations of the Library. Opening hours are available on the Scuola Superiore Sant'Anna website.

Didactic materials: lecturers can make available for free slides and the material for the practices (mailly in digital format). Any other material (extra photocopies, books, stationery, floppy, cd-rom, etc.) is charged to the student.

Secretariat Front Office: Master Secretariat is open to the students Monday, Wednesday and Friday from 10.00 to 12.00.

Lockers: The students can use the lockers on the room 27B – ground floor CEIICP. The Deposit is 5.00 euros and the students can purchase their keys from the tutor. The deposit will be refunded when the keys are returned.

Photocopies: each student will be given a photocopier account, to be used at the photocopier of the ground floor of the CEIICP building for making up to 1000 copies per A.Y. Students can recharge their account with extra copies at the IMCNE Secretary's Office, buying a bonus of 1000 photocopies at the rate of € 1000.

Badge: The Scuola Superiore Sant'Anna provides students with an identification badge. The badge grants access to the ground floor of the CEIICP building and to the Scuola Sant'Anna headquarters. If lost, the cost of the badge shall be refunded by the student. The badge shall be returned at the end of the Master Course.

Annex 1

STUDENT INTEGRITY CODE

The mission of the Master IMCNE Integrity Code is:

- to promote the growth of ethically responsible students and future researchers through adherence to the highest standards of academic integrity
- to encourage an environment of honour and trust within the IMCNE community.

In addition to this Code, all students are expected to know fully the Scuola Superiore Sant'Anna Rules and Regulations, which may be consulted at www.sssup.it.

The Code will be administered and maintained by the Master IMCNE Secretary's Office, in close collaboration with the Administration of CEIICP, the Administration of the Masters and Training Programmes Division, and with the Legal Office of Scuola Superiore Sant'Anna.

Specific Standards

A. Academic Pursuits

The IMCNE student is expected to engage honestly and fairly in the learning process, maintaining standards of academic integrity. No specific set of rules or definitions can embrace every act of academic misconduct. In general, Academic misconduct is any action or attempted action that may result in creating an unfair academic advantage for oneself or an unfair academic advantage or disadvantage for any other member or members of the academic community.

Below there are types of academic misconduct with examples of each. Please note that the list of potential academic offences should not be considered exhaustive:

Cheating

Cheating is defined as fraud, deceit, or dishonesty in an academic assignment, using or attempting to use materials, or assisting others in using materials that are prohibited or inappropriate in the context of the academic assignment in question, such as:

- Copying or attempting to copy from others during an exam or on an assignment
- Communicating answers with another person during an exam
- Using unauthorized materials, prepared answers, written notes during an exam
- Allowing others to do an assignment or portion of an assignment for you
- Collaborating on an exam or assignment with any other person without prior approval from the instructor

Plagiarism

Plagiarism is misrepresenting the ideas, expression of ideas or work of others as one's own. It includes reproducing or paraphrasing portions of someone else's published or unpublished material, regardless of the source, and representing these as one's own thinking by not acknowledging the appropriate source or by the failure to use appropriate quotation marks. Some examples of plagiarism include:

- Wholesale copying of passages from works of others into your homework, essay, term paper, or dissertation without acknowledgment
- Use of the views, opinions, or insights of another without acknowledgment
- Paraphrasing of another person's characteristic or original phraseology, metaphor, or other literary device without acknowledgment

False Information and Representation, Fabrication or Alteration of Information

- Furnishing false information in the context of an academic assignment
- Failing to identify yourself honestly in the context of an academic obligation
- Fabricating or altering information or data and presenting it as legitimate
- Providing false or misleading information to an instructor or any other University official.

- Concocting facts or reference
- Fabricating false medical or compassionate certificates
- Fabricating false letters of support or other letters of reference
- Fabricating false academic records, transcripts or other registrarial records
- Forgery of an instructor's signature on a letter of recommendation or any other document
- Submitting an altered transcript of grades to or from another institution or employer
- Putting your name on another person's exam or assignment.

Impersonation

Impersonation involves having someone impersonate oneself, either in person or electronically, in class, in an examination or in connection with any type of academic requirement, course assignment or material, or of availing oneself of the results of such impersonation. Both the impersonator and the individual impersonated (if aware of the impersonation) are subject to disciplinary proceedings.

Property violations

Student is expected to respect the materials, data and property of other members of the Scuola Superiore Sant'Anna community. The students will not misuse or misappropriate the materials, data, or other property of another especially through, but not limited to:

- Accessing, removing, or destroying any information, materials, or other property from another student's premises, locker, computer files, or mail folder without prior permission
- Sabotaging or stealing another person's assignment, book, paper, notes, experiment, project, electronic hardware or software
- Improper access to, or electronically interfering with, the property of another person or the University via computer or other means
- Obtaining a copy of an exam or assignment prior to its approved release by the instructor
- Accessing restricted areas of the Scuola Superiore Sant'Anna without prior authorization
- Accessing Scuola Superiore Sant'Anna structures outside the office hours, without prior authorization
- Disseminating or otherwise making confidential information public to a third party without prior written consent.

Disturbances in the Classroom

- Interference with the course of instruction to the detriment of other students.
- Failure to comply with the instructions or directives of the course instructor
- Unnecessarily activating fire alarms.

B. Individual Rights violations

The students are expected to respect the individual rights of others, observing the Scuola Superiore Sant'Anna policies against harassment and discrimination. Any complaint of a violation of these policies brought to the attention of the IMCNE Coordinator will be referred to the appropriate body of the jurisdiction within the Scuola Superiore Sant'Anna

C. Reports and Adjudication

Any member of the University community (faculty, staff, students and others) has the specific Responsibility to report to the Master IMCNE Coordinator suspected act of Academic dishonesty.

Students have the right to a fair and complete inquiry into any alleged violation of the integrity Code. The IMCNE Coordinator will impartially gather evidence from the student, the complainant, and other appropriate parties. The IMCNE Coordinator will review the evidences with the student who will have an opportunity to respond to the evidences and may call witnesses.

At the end of the inquiry process, the IMCNE Coordinator will clear the student from the charges brought against her or him, or decide which sanction or combinations of sanctions is appropriate. The outcome is notified to the student by the IMCNE Coordinator by e-mail.

A notification of academic misconduct is recorded in the Academic Misconduct Register, which is kept from the Master IMCNE Secretary's Office.

Access to the Academic Misconduct Register will be limited to those involved in processing appeals and those involved in processing additional complaints against the student.

D. Sanctions

Violations of the Code will be treated seriously, with special attention to repeat offenders. In assign a sanction, the IMCNE Coordinator will take into account the seriousness of the offence and the particular circumstances of the case.

Sanctions for a violation may include one or more of the following:

- A failing grade for the assignment in which the violation occurred
- A failing grade for the course in which the violation occurred
- Other sanctions as appropriate, including for example remedial work, lower course grade and so on
- An official letter of reprimand
- The rescinding of scholarships, grants and tuition fee reductions
- The rescinding and the reimbursement of scholarships, grants and tuition fee reductions
- Denial of the degree
- A recommendation for expulsion from the University.

If a person is found guilty of academic misconduct after having a degree conferred, the IMCNE Coordinator may recommend the Director of the Scuola Superiore Sant'Anna to revoke his or her degree.

E. Appeals

Appeals shall be made in writing to the Director of the Scuola Superiore Sant'Anna within ten business days after the date of notification to the student.

Appeals are limited to the following grounds: new evidence that was not available at the time of the adjudication of the case and that may affect the outcome of the case; improper procedure that materially and adversely affected the earlier outcome of the case, and excessive sanction.

Appeals will be reviewed by the Director of the Scuola Superiore Sant'Anna who may consult the written record of the case, the appeal request, and any person involved in the adjudication process, or other appropriate party. The Director of the Scuola Sant'Anna may confirm, modify, or remand the case to the IMCNE Coordinator with instructions for the further action. The decision of the Director of the Scuola Superiore Sant'Anna is final.