



Master Degree Program in Computer Science and Networking

STUDENT STUDY PLAN – 2012-13

To be submitted to the Master Program Secretary, Dept. of Computer Science. **Deadline: June 3, 2013.**

Last name

First name

University of Pisa Registration Number (Numero di matricola)

FIRST YEAR – total 57 CFU – only Major (mandatory) exams (6)

<i>Advanced Programming (PA)</i>	9 CFU	1 st semester
<i>Algorithm Engineering (ALE)</i>	9 CFU	2 nd semester
<i>Fundamentals of Signals, Systems and Networks (FSR)</i>	12 CFU	annual
<i>High Performance Computing (HPC)</i>	9 CFU	1 st semester
<i>Network Configuration and Management (GCR)</i>	9 CFU	annual
<i>Teletraffic Engineering (IT)</i>	9 CFU	2 nd semester

SECOND YEAR – total 63 CFU – 2 Major (mandatory) exams + Study Plan + Master Thesis (15 CFU)

<i>Distributed Systems: Paradigms and Models (SPM)</i>	9 CFU	1 st semester
<i>Software Service Engineering (ISS)</i>	9 CFU	1 st semester
STUDY PLAN exams	≥ 30 CFU total	

A Study Plan consists of **three Minor (subsidiary) activities**, plus the 9-CFU Minor activity called “**free-choice exam**”.

The Master Board recommends Study Plans which are built around two Schemes:

- **Scheme 1**: more oriented towards architectures and tools for computer systems and networking, and development of distributed applications;
- **Scheme 2**: more oriented towards network technologies, principles and technologies for optical and photonic communication.

A Study Plan proposal respecting the rules of Scheme 1 or Scheme 2 (see below) is automatically approved, otherwise it is submitted to the Master Board analysis.

SCHEME 1

Activity 1: a course in Group 1

Activity 2: a course in Group 2

Activity 3: a course marked with “x” in columns “Study Plan 1.1”

Activity 4: a course marked with “x” in columns “Study Plan 1.2”

SCHEME 2

Activity 1: a course in Group 1

Activity 2: **Theory and Techniques of Optical Communications**

Activity 3: a course marked with “x” in columns “Study Plan 2.1”

Activity 4: a course marked with “x” in columns “Study Plan 2.2”

The total CFUs for the four Minor exams must be ≥ 30. A typical 30-CFU Study Plan consists of two 9-CFU courses (including the free-choice one) and two 6-CFU courses. The student is allowed to build a Study Plan consisting of more than 30 CFUs (as well as to include more than four Minor exams).

In order to complete a Study Plan consisting of three 6-CFU exams and one 9-CFU exam, the student can choose an 18-CFU Master Thesis by including the 3-CFU module called *Survey in Preparation of the Final Proof*.

Select one of the two Schemes: Scheme 1 Scheme 2

Mark the selected exams with a “X” inside the rectangle containing the exam name:

Minor activity courses – Group 1: at least one exam

Exam name	CFU	Semester	Study Plan 1.1	Study Plan 1.2	Study Plan 2.1	Study Plan 2.2
<i>Models of Computation (MOD)</i>	9	2	x	x		x
<i>Network Security (SR)</i>	9	2	x	x		x
<i>Programming Tools for Parallel and Distributed Systems (SPD)</i>	6	2	x	x		x

Minor activity courses – Group 2: at least one exam

Exam name	CFU	Semester	Study Plan 1.1	Study Plan 1.2	Study Plan 2.1	Study Plan 2.2
<i>Laboratory of Routing Protocols and Architectures (LPA)</i>	6	1		x	x	x
<i>Network Optimization Methods (MOR)</i>	6	2		x	x	x
<i>Networking Architectures, Components and Services (ACS)</i>	9	2		x	x	x
<i>Networks and Technologies for Telecommunications (RTT)</i>	9	annual		x	x	x
<i>Packet-Switching and Processing Architectures (AED)</i>	6	2		x	x	x
<i>Performance and Design Issues of Wireless Networks (ARW)</i>	6	2		x	x	x
<i>Theory and Techniques of Optical Communications (TCO - mandatory for Study Plan 2)</i>	9	annual		x		

Minor activity courses – Group 3

Exam name	CFU	Semester	Study Plan 1.1	Study Plan 1.2	Study Plan 2.1	Study Plan 2.2
<i>Applied Optics and Propagation (POA)</i>	6	2			x	x
<i>Distributed Enabling Platforms (PAD)</i>	6	1	x	x		x
<i>Embedded Systems (SE)</i>	6	1		x	x	x
<i>Formal Methods for Security (MFS)</i>	6	2		x		
<i>High Performance Scientific Computing (HSC)</i>	6	1	x	x		x
<i>Information Retrieval (IR)</i>	6	1	x	x		x
<i>Laboratory of Photonic Systems (LSF)</i>	6	1			x	x
<i>Methods for the Specification and Verification of Business Processes (MBP)</i>	6	1		x		
<i>Networked Virtual Environments (AVR)</i>	6	1		x	x	x
<i>Optical Amplification and Sensing (AOS)</i>	9	1			x	x
<i>Parallel and Distributed Algorithms (ALP)</i>	6	1	x	x		
<i>Peer to Peer Systems (P2P)</i>	6	2		x		x
<i>Photonic Switching (CF)</i>	9	annual			x	x
<i>Real Time Systems (SRT)</i>	6	1		x	x	x
<i>Security Issues in Web Applications (PSW)</i>	6	2	x	x		x
<i>Survey in Preparation of the Final Proof</i>	3	-	x	x	x	x
<i>Wireless Networks of Embedded Systems (RWE)</i>	6	2		x	x	x

Free Choice Exam: 9 CFU – Write here which of the selected exams is the Free Choice Exam:

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Write here the total number of CFUs of your Study Plan, including the Major CFUs:
 (this number must be ≥ 105)

The student is highly recommended to respect the precedence of 1st year on 2nd year exams, and of Major on Minor exams.

The student must respect the precedence between exams described in <http://compass2.di.unipi.it/didattica/win18/corsi/>.

Date

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Signature

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Reserved to the Master Program Board:

Approved date:

Not approved date:

Observations: