Master of Science in Information and Communication Technologies (MINT)

The Master of Science in Information and Communication Technologies (MINT) is a Telecommunication Engineering International Master designed to train highly qualified professionals in the development and application of information and communication technologies.

The program's methodology and credits' validation is based on the recommendations established by the "European Higher Education Area" and was a pioneer program (experience) in Spain implementing the Bologna Process. Courses are taught entirely in English by faculty with a depth of experience in teaching and research. [Since the academic year 2006-07, it has become an official degree program.]

This Master program is offered by the School of Telecommunication Engineering of Barcelona (Escola Tècnica Superior d'Enginyeria de Telecomunicació de Barcelona, ETSETB) that is a part of the Technical University of Catalonia (Universitat Politècnica de Catalunya, UPC). The ETSETB is the second oldest school in Spain, currently the largest in Catalunya (in the area) and has been ranked the best technical university in Spain a number of times since its creation.

Master in Telematics Engineering (TELEMATICS)

From this academic year (2012-13) on, Master MINT includes a new academic track with the most substantial part of the former Master in Telematics Engineering (MENTEL).

This Track provides a postgraduate education covering basic and advanced concepts of telematic networks, systems and services. Graduates of this Track may want to pursue careers in a research institution by completing a Ph.D. or joining industrial R+D departments. It is aimed at anyone interested in building on their knowledge and gaining an ability to carry out research in the field of telematics engineering who meets the general and specific access requirements.
Master of Science in Information and Communication Technologies

**Master of Science in Information and Communication Technologies (MINT)**

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Master of Science in **Information and Communication Technologies**

**Site map**
An overview of the available content on this site. Keep the pointer still over an item for a few seconds to get its description.

- **Presentation**
  - A Master within the Bologna Process
  - A solid and dynamic Master program
  - Double degree with other Universities
  - Links of interest

- **Program contents**
  - MINT
  - Telematics

- **List of courses**
  - List of courses Mint
  - List of Courses Telematics

- **Admission requirements**
  - Requirements for double degree students
  - Requirements for ETSETB former students
  - Academic background
  - Detailed requirements

- **Application Form**

- **Academic Performance Requirements**

- **Master scholarships**

- **Internship in companies. Information for students**

- **Internships towards completing the master thesis**

- **History of the Master**

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Name  ■
Please enter your full name.

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Please enter your e-mail address.

Subject  ■
Please enter the subject of the message you want to send.

Message  ■
Please enter the message you want to send.

Type the code:  ■
Type the code from the picture shown below

Privacy & Terms

This website uses cookies to offer you the best experience and service. If you continue browsing, it is understood that you accept our cookies policy.
General information on the master's degree

Master's degree in Information and Communication Technologies (MINT) does not offer places for 2015-2016.

Webpage updated by the Communications Service and the Teaching Area.
The Master of Science in Information and Communication Technologies (MINT) is a Telecommunication Engineering International Master designed to train highly qualified professionals in the development and application of information and communication technologies.

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Master of Science in **Information and Communication Technologies**

Program contents

- MINT
- Telematics
List of courses — Master of Science in Information and Communication Technologies — UPC. Universitat Politècnica de Catalunya BarcelonaTech.

You are here:

Home » List of courses

List of courses

- List of courses Mint
- List of Courses Telematics

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Admission requirements to the core semester — Master of Science in Information and Communication Technologies — UPC. Universitat Politècnica de Catalunya BarcelonaTech.

You are here: Home » Admission requirements

General information on the master’s degree

Program contents

List of courses

Admission requirements

Requirements for double degree students

Requirements for ETSETB former students

Academic background

Detailed requirements

Academic Performance Requirements

Master scholarships

Internship in companies. Information for students

Internships towards completing the master thesis

History of the Master

Admission requirements for the core semester

Note: Important academic requirement common to all applicants:

Following nation-wide regulations which affect all postgraduate studies, all applicants to the MINT master are required to be graduated from an accredited institution with bachelor’s degree requirements (minimum) to be considered for admission.

Since the academic level in the International MSc program is highly advanced, a through basic knowledge in electrical or telecommunications engineering fields or a closely related field of study is required for admission. Previous diplomas of applicants should be of substantial quality. Proficiency in English is also required.

The applications are evaluated on the basis of the documents and information submitted by the applicant. The school will evaluate each applicant’s capability to complete the MSc program successfully either in two years (starting from the BRIDGE semester) or in one and a half years (starting directly from the CORE semester).
Master of Science in **Information and Communication Technologies**

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**Application Form 2012-13**

**Steps to follow**

These are the steps to follow to properly perform the registration process:

1. Identify your profile and the corresponding admission requirements:
   - **Regular students**
   - **Double degree students**
   - **ETSETB former students**

2. Fulfil the admission form at the university Master’s degree pre-enrolment page before 30th June 2012.

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Academic Performance Requirements

Given the outstanding academic achievements and excellent background of the students admitted to the MINT program, it is not expected that these students will have any difficulty satisfying all requirements of the Master program, i.e., passing all courses, and producing a high-quality Master Thesis.

Nevertheless, in order to ensure excellence, the MINT Board has established a set of rules applicable to all MINT students. These rules are the following:

1. Registering for all required credits (30 ECTS) scheduled per semester is mandatory.
2. Achieving a minimum academic performance, which consists of:
   a. Obtaining not less than 20 ECTS credits per semester.
   b. Completing the program requirements in at most five semesters.
3. Students not achieving the minimum required academic performance will be asked to withdraw from the program.

The MINT Board is available to guide students for a successful completion of the program. The Board may also assess particular cases of students failing to comply with the minimum requirements and may re-consider any required withdrawal.
Master of Science in Information and Communication Technologies

Master scholarships

For further information:

Ministry of Science and Innovation
Obra Social La Caixa
Academic Gestion Services (UPC)
Mobility and International Relations Office (Telecom BCN)

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Internship in companies. Information for students

Master of Science in Information and Communication Technologies

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- General information on the master's degree
- Program contents
- List of courses
- Admission requirements
- Application Form
- Academic Performance Requirements
- Master scholarships
- Internship in companies. Information for students
- Internships towards completing the master thesis
- History of the Master

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Internships towards completing the master thesis — Master of Science in Information and Communication Technologies — UPC. Universitat Politècnica de Catalunya BarcelonaTech.

Master of Science in **Information and Communication Technologies**

In this section you will find various choices for obtaining an internship for your master thesis:

- **Intel Shannon**

**Master thesis in Intel Shannon:**

Intel Shannon in Ireland offers a collaborative internship for completing your master thesis in both its silicon and software departments. If you are interested in an internship association in the software department, you can send your CV to Ken Reynolds at ken.reynolds@intel.com with the option you have selected for the second semester (Networking, Signal processing,...) and your courses details.

The best time to contact them will be around May for a project starting in September. If you have any informal questions, you can contact Mathieu Perrier at mathieu.perrier@intel.com.
History of the Master

In this page you will find some of the most interesting figures regarding the Master course. We pinpoint the success and excellency with the following points:

- Student Origins
- Specialization Areas
- Master Thesis
- Performance
- Professional Profiles

Student Origins

The MINT Master is a worldwide renowned high studies Master, attracting many foreign students from prestigious Universities.

To view the list of student’s of procedence (Country and University) click here.

Specialization Areas

The MINT Master currently offers three choices of specialization areas (second semester courses), namely Communications Networks, Communications and Signal Processing and Electronic Systems.

The following graphic depicts the student’s specialization preferences from the Master begining:

Master Thesis

The MINT Master requires creating a final Thesis to obtain the Master degree. These works can be done in one of the UPC Faculties or in association with external companies or other prestigious Universities.

To view the list of references of the Master's Thesis click here.

Performance

The aim of the Master is to obtain an excellent performance of its students. The following two figures show how this is being achieved.

1. Score density probability function for the students that have fully completed the Master (Courses plus Thesis).

2. Average scores per academic year.

To view the detailed scores for each academic year, click here.
RSS headlines

RSS (Really Simple Syndication) feeds are content feeds used to publish frequently updated material, such as items on news sites, blogs and podcasts. RSS feeds allow you to share information and use it on other sites and programs. It is essentially a content syndication format.

The main advantage of the system is its speed. With RSS feeds, users can get headlines without downloading images and other elements of a site. It also makes it easy to gather content from many sites in a single space. Thanks to this technology, users no longer need to think about checking to see if there are new items of interest to them at a particular digital space. Instead, they can receive and organise new headlines in a digital space as soon as they're published.

A program that gathers RSS feeds is called an aggregator. There are many types of aggregators: embedded in web browsers, desktop widgets, in e-mail programs, in dedicated web pages, and in dedicated programs.

UPC RSS feeds

UPC Today
UPCtv, latest videos posted
Library

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Accessibility

The Universitat Politècnica de Catalunya · BarcelonaTech (UPC) aims to provide the university community and society in general with a website whose design makes it accessible regardless of limitations imposed by the environment, the Internet connection or personal circumstances.

Royal Decree 1494/2007, of 12 November, establishes that the information available on the Internet pages of public administrations must be accessible to elderly and disabled persons, with the minimum level of accessibility required to meet priorities 1 and 2 of standard UNE 139803:2004. Public educational institutions, training institutes and universities, as well as private schools that are fully or partly funded by the public, are also obliged to conform to this standard.

This website has been generated with Genweb UPC v3, a tool that allows to the creation and management of web pages according to the UPC institutional style guide. Genweb UPC v3 is a project co-authored by the Communication Service of UPC and UPCnet developed with the Open Source Content Management System Plone. This site has been designed to be completely accessible and usable, working in accordance with the W3C accessibility guidelines.

Pautes WAI

Els continguts del web de la UPC han estat validats amb la certificació Doble-A, segons les recomanacions de la WAI (Web Accessibility Initiative), grup de treball internacional que pertany al W3C (World Wide Web Consortium), organisme que vetlla perquè cap col·lectiu pateix discriminacions de cap mena que puguin ser causa de fractures socials en el món virtual.

En aquest sentit, les tècniques emprades al web de la UPC encaixen amb el que la WAI preconitza, tant per al marcat XHTML 1.0 com per al CSS.

Changing text size in common web browsers

Mozilla Firefox

Increase text size: CTRL + mouse wheel up, CTRL + + (plus key), or View > Text Size > Increase
Decrease text size: CTRL + mouse wheel down, CTRL + – (minus key), or View > Text Size > Decrease
Restore default size: CTRL + 0 (zero), or View > Text Size > Normal

Safari

Increase text size: Command (Mac) / CTRL (PC) + + (plus key), or View > Make Text Bigger
Decrease text size: Command (Mac) / CTRL (PC) + – (minus key), or View > Make Text Smaller
Restore default size: Command (Mac) / CTRL (PC) + 0, or View > Make Text Normal Size

Internet Explorer

Increase text size: CTRL + mouse wheel up, CTRL + + (plus key), or View > Text Size > Larger / Largest
Decrease text size: CTRL + mouse wheel down, CTRL + – (minus key), or View > Text Size > Smaller / Smallest
Restore default size: CTRL + 0 (zero, not with numeric keypad), or View > Text Size > Medium

Opera
Access keys

Access keys enable you to browse this website using your keyboard. Further information is available at W3C Accessibility Guidelines. This website follows most international recommendations on access keys.

Access keys available on this website

1 — Home Page
2 — Skip to content
3 — Site Map
4 — Search field focus
6 — Site navigation tree
9 — Contact information
0 — Accessibility information

Contact

We are working to maintain and improve the accessibility of this website. If you notice any accessibility-related anomalies on any of its pages, please contact the webmaster.

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A Master within the Bologna Process

Official Telecommunication Engineering studies in Spain are currently based in a two outcome levels, the engineering diploma level and the doctorate level. An important goal of the Bologna Process is to move higher education in Europe into a common frame based on three outcome levels: Bachelor, Master and Doctorate.

The Master offered by the ETSETB-UPC is a pioneering experience in Spain in the second level of the Bologna Process. The design of the Master followed the recommendations by the conference on Master-Degrees held in Helsinki in March 2003. It was also part of Master Pilot Programs recognised by the autonomous Catalan Government.
A solid and dynamic Master program

The program is directed to students who want to receive a highly qualified education in the development and applications of information and communication technologies. The Master incorporates some specializations that are reviewed every year based on current demands of the labour market following a dynamic and solid model of education. Currently students are able to choose, under the supervision of an academic advisor, among the following specializations: Communication Networks, Communications and Signal Processing and Electronic Systems.

The program is designed not only to provide students with a broad knowledge in fields of study concerned, but also to train them in the necessary abilities for entrepreneurship in different areas of Telecommunication Engineering.

The following table shows the goal competences defined within the Master:

<table>
<thead>
<tr>
<th>Specific contents of the degree</th>
<th>Professional</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity to identify, formulate and solve some specific ICT problems</td>
<td></td>
</tr>
<tr>
<td>Capacity to utilize techniques, abilities and engineering tools for a good practice in some specific ICT problems</td>
<td></td>
</tr>
<tr>
<td>Capacity to design systems, components or processes to meet some specifications of the economic, social, political, ethical, environment, health and sustainability specifications points of view</td>
<td></td>
</tr>
<tr>
<td>Capacity to develop and to manage projects</td>
<td></td>
</tr>
<tr>
<td>Awareness of engineering understanding as an economic and business activity</td>
<td></td>
</tr>
<tr>
<td>Competences in the area of management and organization of ICT activities</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Academic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity to apply mathematical, scientific and engineering knowledge</td>
</tr>
<tr>
<td>Capacity to design and perform experiments, as well as to analyze and to interpret results</td>
</tr>
<tr>
<td>Capacity to research and develop in new services and products in specific areas of ICT</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Intellectual</th>
</tr>
</thead>
<tbody>
<tr>
<td>Critical Thinking: Capacity to analyze and to rate different possibilities</td>
</tr>
<tr>
<td>Solving problems. Capacity to find optimal solutions to complex problems and projects</td>
</tr>
<tr>
<td>Creativity and Innovation: Capacity to create and innovate in new services and products</td>
</tr>
<tr>
<td>Ability to a fast adaptation to evolving technologies and markets in ICT</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Transversal Competences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written: Ability to write projects and technical reports</td>
</tr>
<tr>
<td>Oral: Clarity and Fluency in the presentation of results, products or services either in specialized and non-specialized audiences</td>
</tr>
<tr>
<td>Knowledge of software tools used for generating reports and presentations</td>
</tr>
<tr>
<td>Knowledge of languages for enhanced professional competence</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Interpersonal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity to work in heterogeneous groups</td>
</tr>
<tr>
<td>Leadership capacity</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Personal Manage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long-life learning. Ability to keep studying autonomously for continuous education</td>
</tr>
<tr>
<td>Capacity to manage resources and projects</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professional ethics</td>
</tr>
<tr>
<td>Capacity to analyze the social dimension of technical activities</td>
</tr>
</tbody>
</table>
A solid and dynamic Master program — Master of Science in Information and Communication Technologies — UPC. Universitat Politècnica de Catalunya BarcelonaTech.
Double degree with other Universities

The ETSETB-UPC is developing a joint program with other major Universities in Europe and will eventually be able to offer a double master's degree. The other universities currently participating in this program are the Royal Technological University (KTH) in Sweden, and the Politecnical Institute of Tomar in Portugal.
Links of interest — Master of Science in Information and Communication Technologies — UPC. Universitat Politècnica de Catalunya BarcelonaTech.

Master of Science in **Information and Communication Technologies**

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**You are here:** Home » Presentation » Links of interest

### General information on the master's degree

#### Presentation

- A Master within the Bologna Process
- A solid and dynamic Master program
- Double degree with other Universities
- Links of interest

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### Links of interest

- Description of the Bologna Process by the Council of Europe
- Catalan Government European Higher Education Area Pilot Programs

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**Last modified:** September 2010

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Master of Science in Information and Communication Technologies

Program contents

Contents

In this section you can find a detailed description and explanation of MINT contents. In order to adapt to students’ fast changing requirements, there may be changes during the course. All these can be checked at the news section.

International Master Program Features and Contents

Final Degree Awarded
Master of Science in Information and Communication Technologies

Language of Instruction
English

Structure of the Program

The whole program consists of a total of 120 ECTS credits distributed in four semesters of 30 credits each (three semesters of courses followed by a thesis project). BRIDGE courses start in September (i.e., are done only in Fall semesters).

For those students with a strong background in Electrical Engineering, the program might be completed in three semesters -90 ECTS credits (two semesters of courses and one semester for the Master thesis). Conversely to the BRIDGE courses, the CORE courses are repeated both in Fall semester and Spring semesters.

BRIDGE courses

The BRIDGE entrance is intended for students having a bachelor degrees in related areas that do not provide the required background to follow the CORE courses.

CORE admission

Direct admission to the CORE courses is for those students having a bachelor degree (four years) of Telecommunication Engineering (Electrical Engineering) studies. The CORE semester includes all compulsory courses of the master program.

Specialization

The Master MINT program features two specialities: Communications and Signal Processing and Electronics Systems, and a academic track in Telematics Engineering (enllaç a la pestanya de TELEMATICS).

Each of the two specialities offer several optional courses of 5 ECTS credits, plus other courses from other areas of study. Students are requested to take at least 3 courses in one speciality; the remaining 2 courses can be chosen from the same area, another area in the program, or among the various courses offered by the different departments of the ETSETB.

Master Thesis

The Master thesis entails the full workload of a semester. The Master thesis must be written in English. The rest of the procedures will closely follow those required for the evaluation of final projects at ETSETB. Students must defend their thesis in an oral exam by a committee that will evaluate each candidate. Ordinarily students develop the Master Thesis in the same speciality they chosen. Students can also develop the Master Thesis in one of the available company internship offered by TELECOM BCN.
Master of Science in Information and Communication Technologies

Program contents

Contents

In this section you can find a detailed description and explanation of Telematics contents.

International Master Program Features and Contents

Final Degree Awarded
Master of Science in Information and Communication Technologies, special track in Telematics Engineering

Language of Instruction
English

Structure of the Program
The whole program consists of a total of 120 ECTS credits distributed in four semesters. 60 ECTS credits are devoted to the CORE courses, while 30 are devoted to optional courses and the remaining 30 credits are due to the thesis project.

Master Thesis
The Master thesis entails the full workload of a semester. The main objective of a Master thesis is to fulfill a research project in the telematics area.

The Master thesis must be written in English. Students must defend their thesis in an oral exam by a committee that will evaluate each candidate. The committee is composed by three doctors from the Department of Telematics Engineering.

Useful links
http://www.entel.upc.edu/?set_language=en

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List of Courses MINT

Bridge courses

Core courses

Optional courses

Electronic Systems

Communications Networks

Communications and Signal Processing

Other Specific Optional Courses

- New Generation Internet (11525 - NGI)
- GPS and Galileo Data Processing: From the Fundamentals to light accuracy navigation (11663 - GPS)
- Technology Assets Management (32120 - TAM)
- Graph and Routing Dynamics: network models and algorithms (230310 - GRD)

Master Thesis

30 ECTS credits (represents the full workload of a semester)

The Master Thesis report has to be written in English

The procedures will closely follow those required for evaluating the final projects at ETSETB
### List of Courses Telematics

#### 1st Semester (Fall)

<table>
<thead>
<tr>
<th>Subject</th>
<th>Code</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lectures on Information Technology and Society (LITS)</td>
<td>11689</td>
<td>2.5</td>
</tr>
<tr>
<td>Topics in New Technologies and Business (TNTB)</td>
<td>11572</td>
<td>2.5</td>
</tr>
<tr>
<td>Probability and Stochastic Processes (PIPE)</td>
<td>11467</td>
<td>5</td>
</tr>
<tr>
<td>E - Commerce (CE)</td>
<td>11555</td>
<td>5</td>
</tr>
<tr>
<td>Advanced Programming and Distributed Applications (APDA)</td>
<td>11645</td>
<td>5</td>
</tr>
<tr>
<td>Network Architectures (NA)</td>
<td>11642</td>
<td>5</td>
</tr>
<tr>
<td>Communication Theory (CT)</td>
<td>11580</td>
<td>5</td>
</tr>
</tbody>
</table>

#### 2nd Semester (Spring)

<table>
<thead>
<tr>
<th>Subject</th>
<th>Code</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communications Systems, Networks and Services (CSNS)</td>
<td>11684</td>
<td>5</td>
</tr>
<tr>
<td>Management and Innovation in Telecommunication Companies (MITC)</td>
<td>32036</td>
<td>5</td>
</tr>
<tr>
<td>Cellular Access Networks (XAC)</td>
<td>11569</td>
<td>5</td>
</tr>
<tr>
<td>Cryptography and Network Security (CRPT)</td>
<td>11557</td>
<td>5</td>
</tr>
<tr>
<td>Network Intelligence (IX)</td>
<td>11561</td>
<td>5</td>
</tr>
<tr>
<td>Protocols in Telecommunications Networks (PRXT)</td>
<td>11658</td>
<td>5</td>
</tr>
</tbody>
</table>

#### Optional Courses

<table>
<thead>
<tr>
<th>Subject</th>
<th>Code</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Networking Fundamentals, Applications and Services (NFAS)</td>
<td>13970</td>
<td>5</td>
</tr>
<tr>
<td>Broadband Networks and Services (XSBA)</td>
<td>11570</td>
<td>5</td>
</tr>
<tr>
<td>3G Mobile Systems. Evolution(CM3G)</td>
<td>11529</td>
<td>5</td>
</tr>
<tr>
<td>Service Management in New Generation Networks (GSXNG)</td>
<td>13181</td>
<td>2.5</td>
</tr>
<tr>
<td>Development of Web Applications (WEB)</td>
<td>11662</td>
<td>5</td>
</tr>
<tr>
<td>Advanced Mechanisms on Networks Security (MAX)</td>
<td>32040</td>
<td>5</td>
</tr>
<tr>
<td>Telecommunications Networks Planning (PLXT)</td>
<td>11661</td>
<td>5</td>
</tr>
<tr>
<td>Coded Modulation and Channel Modulation (MCCC)</td>
<td>11556</td>
<td>5</td>
</tr>
<tr>
<td>Evaluation of Packet- Switched Networks (AXC)</td>
<td>32148</td>
<td>2.5</td>
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<tr>
<td>Pricing Communications Networks (PEPX)</td>
<td>32032</td>
<td>2.5</td>
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<tr>
<td>Multi-Hopnets Applications to sensor Networks (XM)</td>
<td>32149</td>
<td>2.5</td>
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<tr>
<td>Research Seminar (RSEM)</td>
<td>13182</td>
<td>5</td>
</tr>
<tr>
<td>Routing and Resource Management with Quality of Service in broadband Networks (EGR)</td>
<td>32033</td>
<td>5</td>
</tr>
</tbody>
</table>
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Requirements for double degree students — Master of Science in Information and Communication Technologies — UPC. Universitat Politècnica de Catalunya BarcelonaTech.

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General information on the master’s degree
Program contents
List of courses
Admission requirements
- Requirements for double degree students
- Requirements for ETSETB former students
- Academic background
- Detailed requirements

Academic Performance
Requirements
- Master scholarships
- Internship in companies
Information for students
- Internships towards completing the master thesis
- History of the Master

Requirements for double degree students

Same academic requirements for the double degree, have been established in agreement with our partner universities.

All students are required to prove a good level of English (TOEFL: minimum 573pts paper-based, 230pts computer-based; 88pts internet-based or similar). If undergraduate studies have been held in English, it is sufficient to provide certification by the degree-awarding institution.

The following documents have to be sent throughout the Application Form:

- Application form with the approval of your home institution.
- Official transcript of records from each institution attended at the university level.
- TOEFL score report or equivalent language certification.
- Curriculum Vitae.
- 2 Letters of reference.

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Requirements for ETSETB former students

Once they are graduated, ETSETB former students are required to prove a good level of English (TOEFL: minimum 573pts paper-based, 230pts computer-based; 88pts internet-based or Certificate in Advanced English, CAE).

Under this conditions they will be directly admitted by just fulfilling the application for as regular students. They will have to course 60 ECTS.
Academic background

The applicants must demonstrate skills in:

Mathematics

Linear Systems
Time continuous and time discrete signals and systems, e.g. corresponding to the following text: OPPENHEIM, A.V. and SHAFER, R.W. Discrete-time signal processing. 2nd ed. Prentice Hall, 1999.

Electronic Design

Network Communications

Software engineering including programming (C or equivalent)

Fundamental classical electromagnetics in simple media
Besides of the academic background, students are required to prove a good level of English (for example, for TOEFL: minimum 573 pts paper-based, 230 pts computer-based; 88 pts internet-based or similar). If undergraduate studies have been held in English, it is sufficient to provide certification by the degree-awarding institution.

The following documents have to be submitted through the Application Form:

- Certified copies of your BSc, Engineering degree or MSc diploma.
- Official transcript of records from each institution attended at the university level.
- TOEFL (or equivalent) score report.
- Curriculum Vitae.
- 2 Letters of reference.
- Statement of purpose and a description of the applicant's professional and academic background.
- Other documents that would clarify the qualifications of the applicant, e.g. GRE test (recommended but not mandatory) and a short summary of the BSc thesis, Engineering degree final project or MSc thesis realized by the applicant.
Master of Science in Information and Communication Technologies (MINT)

The Master of Science in Information and Communication Technologies (MINT) is a Telecommunication Engineering International Master designed to train highly qualified professionals in the development and application of information and communication technologies.

The programme’s methodology and credits’ validation is based on the recommendations established by the "European Higher Education Area" and was a pioneer program (experience) in Spain in implementing the Bologna Process. Courses are taught entirely in English by faculty with a depth of experience in teaching and research. [Since the academic year 2006-07, it has become an official degree program.]

This Master program is offered by the School of Telecommunication Engineering of Barcelona (Escola Tècnica Superior d'Enginyeria de Telecomunicació de Barcelona, ETSETB) that is a part of the Technical University of Catalonia (Universitat Politècnica de Catalunya, UPC). The ETSETB is the second oldest school in Spain, currently the largest in Catalonia (in the area) and has been ranked the best technical university in Spain a number of times since its creation.

Master in Telematics Engineering (TELEMATICS)

From this academic year (2012-13) on, Master MINT includes a new academic track comprising the most substantial part of the former Master in Telematics Engineering (MENTEL).

This Track provides a postgraduate education covering basic and advanced concepts of telematic networks, systems and services. Graduates of this Track may want to pursue careers in a research institution by completing a Ph.D. or joining industrial R+D departments. It is aimed at anyone interested in building on their knowledge and gaining an ability to carry out research in the field of telematics engineering who meets the general and specific access requirements.
Master of Science in Information and Communication Technologies (MINT)

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Master of Science in Information and Communication Technologies

Program contents

Actualment no hi ha elements dins d'aquesta carpeta.
Master of Science in Information and Communication Technologies

Program contents

Actualmente no hay elementos en esta carpeta.

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List of courses — Master of Science in Information and Communication Technologies — UPC. Universitat Politècnica de Catalunya BarcelonaTech.

List of courses

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Admission requirements to the core semester — Master of Science in Information and Communication Technologies — UPC. Universitat Politècnica de Catalunya BarcelonaTech.

Admission requirements to the core semester

Admission requirements for the core semester

Note: Important academic requirement common to all applicants:

Following nation-wide regulations which affect all postgraduate studies, all applicants to the MINT master are required to be graduated from an accredited institution with bachelor’s degree requirements (minimum) to be considered for admission.

Since the academic level in the International MSc program is highly advanced, a through basic knowledge in electrical or telecommunications engineering fields or a closely related field of study is required for admission. Previous diplomas of applicants should be of substantial quality. Proficiency in English is also required.

The applications are evaluated on the basis of the documents and information submitted by the applicant. The school will evaluate each applicant’s capability to complete the MSc program successfully either in two years (starting from the BRIDGE semester) or in one and a half years (starting directly from the CORE semester).
Admission requirements to the core semester — Master of Science in Information and Communication Technologies — UPC. Universitat Politècnica de Catalunya BarcelonaTech.

http://mastersuniversitaris.upc.edu/mint/admission-requirements/admission-requirements-to-the-core-semester?set_language=es

[02/02/2017 10:17:51]

inicio mapa del sitio contacto

Master of Science in Information and Communication Technologies

Admission requirements to the core semester

Admission requirements for the core semester

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Following nation-wide regulations which affect all postgraduate studies, all applicants to the MINT master are required to be graduated from an accredited institution with bachelor’s degree requirements (minimum) to be considered for admission.

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Última modificación: Abril 2010

Información general del máster
Admission requirements
Admission requirements to the core semester

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http://mastersuniversitaris.upc.edu/mint/admission-requirements/admission-requirements-to-the-core-semester?set_language=es[02/02/2017 10:17:51]
Master of Science in Information and Communication Technologies

Application Form 2012-13

Steps to follow

These are the steps to follow to properly perform the registration process:

1. Identify your profile and the corresponding admission requirements:
   - Regular students
   - Double degree students
   - ETSETB former students

2. Fulfil the admission form at the university Master’s degree pre-enrolment page before 30th June 2012.

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Academic Performance Requirements

Master of Science in Information and Communication Technologies

Academic Performance Requirements

Given the outstanding academic achievements and excellent background of the students admitted to the MINT program it is not expected that these students will have any difficulty satisfying all requirements of the Master program, i.e., passing all courses, and producing a high quality Master Thesis.

Nevertheless, in order to ensure excellence, the MINT Board has established a set of rules applicable to all MINT students. These rules are the following:

1. Registering for all required credits (30 ECTS) scheduled per semester is mandatory
2. Achieving a minimum academic performance, which consists of:
   - Obtaining not less than 20 ECTS credits per semester.
   - Completing the program requirements in at most five semesters.
3. Students not achieving the minimum required academic performance will be asked to withdraw from the program.

The MINT Board is available to guide students for a successful completion of the program. The Board may also assess particular cases of students failing to comply with the minimum requirements and may re-consider any required withdrawal.

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Última modificación: Marzo 2012
Master of Science in Information and Communication Technologies

For further information:

- Ministry of Science and Innovation
- Obra Social La Caixa
- Academic Gestion Services (UPC)
- Mobility and International Relations Office (Telecom BCN)
Master of Science in Information and Communication Technologies

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Master of Science in **Information and Communication Technologies**

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**Internship in companies. Information for students**

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Internship in companies. Information for students

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darrera modificació: Setembre 2009

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Internship in companies. Information for students

Master of Science in Information and Communication Technologies

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Internships towards completing the master thesis — Master of Science in Information and Communication Technologies — UPC. Universitat Politècnica de Catalunya BarcelonaTech.

Master of Science in Information and Communication Technologies

Internships towards completing the master thesis

In this section you will find various choices for obtaining an internship for your master thesis:

- Intel Shannon

Master thesis in Intel Shannon:

Intel Shannon in Ireland offers a collaborative internship for completing your master thesis in both its silicon and software departments. If you are interested in an internship association in the software department, you can send your CV to Ken Reynolds at ken.reynolds@intel.com with the option you have selected for the second semester (Networking, Signal processing,...) and your courses details.

The best time to contact them will be around May for a project starting in September. If you have any informal questions, you can contact to Mathieu Perrier at mathieu.perrier@intel.com.
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Última modificación: Noviembre 2009
History of the Master

In this page you will find some of the most interesting figures regarding the Master course. We pinpoint the success and excellency with the following points:

- Student Origins
- Specialization Areas
- Master Thesis
- Performance
- Professional Profiles

Student Origins

The MINT Master is a worldwide renowned high studies Master, attracting many foreign students from prestigious Universities.

To view the list of student's of procedence (Country and University) click here.

Specialization Areas

The MINT Master currently offers three choices of specialization areas (second semester courses), namely Communications Networks, Communications and Signal Processing and Electronic Systems.

The following graphic depicts the student's specialization preferences from the Master begining:

Master Thesis

The MINT Master requires creating a final Thesis to obtain the Master degree. These works can be done in one of the UPC Faculties or in association with external companies or other prestigious Universities.

To view the list of references of the Master's Thesis click here.

Performance

The aim of the Master is to obtain an excellent performance of its students. The following two figures show how this is being achieved.

1. Score density probability function for the students that have fully completed the Master (Courses plus Thesis).
2. Average scores per academic year.

To view the detailed scores for each academic year, click here.

Última modificación: Mayo 2012
Master of Science in Information and Communication Technologies
History of the Master Thesis

Complete List of Thesis References

This list gives the references of all the Master Thesis that have been done, completed and presented, and those that are still under development.

The list is ordered by the student ingress year.

- 2015-2016
- 2014-2015
- 2013-2014
- 2012-2013
- 2011-2012
- 2010-2011
- 2008-2009
- 2007-2008
- 2006-2007
- 2005-2006
- 2004-2005

Academic Year 2015-2016

- "ENERGY-AUTONOMOUS WAKE-UP RECEIVER USING SOLAR PANEL AND VISIBLE LIGHT COMMUNICATION"
  SARIOL RAMOS, JOYCE
  Lecture: 31-05-2016 Qualification: 9
  Advisor: DEMIRKOL, ILKER SEYFETTIN

- "Development of tools for the use of Android cell-phones to recognize user activities"
  ABDOLLAH, NOOSHIN
  Lecture: 18-12-2015 Qualification: 9
  Advisor: GORRICHO MORENO, JUAN LUIS

- "Design and implementation of a contributive photo-sharing mobile application for iOS"
  ARREAZA LEÓN, ROBERTO JOSÉ
  Lecture: 30-10-2015 Qualification: 10
  Advisor: PEGUEROLES VALLES, JOSEP RAFAEL

Academic Year 2014-2015

- "Creation and Feasibility Analysis of a Telecommunications Company in Brisbane - Australia"
  ROJAS GARCIA, JORDAN
  Lecture: 09-09-2015 Qualification: 9.5
  Advisor: LOSANTOS VIÑOLAS, PEDRO

- "Study of scalability of passive and active solutions for time-based ranging in IEEE 802.11 networks"
  MALPARTIDA TABLADO, MARTA
  Lecture: 08-09-2015 Qualification: 10
  Advisor: MARTÍN ESCALONA, ISRAEL

- "Improving Efficiency of Administration of Storage Environments via Scripting Techniques and Code Reuse"
  MORENO VILLAMIZAR, JOAQUÍN ABELARDO
  Advisor: RODRÍGUEZ GARDUÑO, JOSUÉ
  Advisor: SORIANO IBAÑEZ, MIGUEL

- "ALL-FIBER MACH-ZEHNDER INTERFEROMETER FOR DWDM-PON BIDIRECTIONAL MULTIPLEXING"
  KURYSHHEVA, ANNA
  Lecture: 15-07-2015 Qualification: 9
  Advisor: PRAT GOMA, JOSEP JOAN

Academic Year 2013-2014

- "Network Virtualization strategy based on Paths Algebra to implement the concept of Infrastructure as a Service"
  GUTIERREZ ANATO, JALENDRO ANTONIO
  Lecture: 10-12-2014 Qualification: 9.5
  Advisor: DE ALMEIDA AMAZONAS, JOSÉ ROBERTO
  Advisor: HESSELBACH SERRA, XAVIER
"Performance analysis of prioritization in LTE networks with the Vienna LTE system level simulator"
ASSAF, SIMON
Lecture:18-07-2014 Qualification:7
Advisor: FERRUS FERRE, RAMON ANTONIO

"Social Review-based Recommender Systems from Theory to Practice"
CAPDEVILA PUJOL, JOAN
Lecture:04-07-2014 Qualification:10
Advisor: ARIAS VICENTE, MARTA
Advisor: ARRATIA QUESADA, ARGIMIRO ALEJANDRO
Advisor: SOLE PARETA, JOSEP

"Performance evaluation of HSPA networks through drive testing tools: Case study in UPC campus Nord"
AL NUAIMAT, FADEL MUTASEM FATHI
Lecture:18-06-2014 Qualification:10
Advisor: FERRUS FERRE, RAMON ANTONIO

"Performance evaluation of HSPA network through drive testing tools: Practical exercises for the mobile communication lab"
TABANNAJ, YAZAN
Lecture:18-06-2014 Qualification:10
Advisor: FERRUS FERRE, RAMON ANTONIO

"A GRASP-based algorithm for the optimised DIF allocation in the RINA network architecture"
KESHAVARZ, PEGAH
Lecture:13-12-2013 Qualification:9
Advisor: CAREGlio, DAVIDE
Advisor: PERELLO MUNTAN, JORDI

"SNAVA: A Generic Threshold-Based-SNN Emulation Solution"
TIRUVENDIPURA ACHYUTHA RAGHavan, ATHUL SRIPAD
Lecture:25-09-2013 Qualification:9.5
Advisor: SANCHEZ RIVERA, GIOVANNY
Advisor: MADRENAS BOADAS, JORDI

**Academic Year 2012-2013**

"Wireless Sensor Networks on-board aircrafts: design and implementation of medium access control protocol"
SÁNCHÉZ-CAMACHO YEBRA, CRISTIAN
Lecture:16-12-2013 Qualification:9
Advisor: HAFID FAZLI, ERIZA
Advisor: PARADELLS ASPAS, JOSE

"How to combine in one view the global cost and duration of a trip"
USKOKOVIC, MARKO
Lecture:22-05-2013 Qualification:9.5
Advisor: DUCHENE, FLORENCE AGNES SYLVIE
Advisor: SANTOS BOADA, GERMAN

"A High Speed Solution for Aircraft Ground Communications"
RODRÍGUEZ AGUILERA, GRACE MARY
Lecture:16-05-2013 Qualification:9.5
Advisor: DURSTEWITZ, MARKUS
Advisor: CASADEMONT SERRA, JORDI

"Performance Evaluation of a Game Theoretical routing protocol over Mobile Ad Hoc Networks"
KHALILI, HAMZEH
Lecture:17-04-2013 Qualification:8
Advisor: AGUILAR IGARTUA, MONICA

"Simulation-based characterized environment for THz band Graphene antennas targeting WNoC"
SINGH, RANJEET
Lecture:13-02-2013 Qualification:8
Advisor: CABELLOS APARICIO, ALBERTO
Advisor: ALARCON COT, EDUARDO JOSE

"Automatic DC Offset Cancellation in Built-in Differential Temperature Sensors"
MASHAYEKHI, MOHAMMAD
Lecture:19-12-2012 Qualification:6.5
Advisor: ALTET SANAHUJES, JOSEP

**Academic Year 2011-2012**

"2D Liquid Lens Based on EWOD"
AHMADI ZEIDABADI, MAZIAR
Lecture:10-09-2012 Qualification:10
Advisor: BERMEO BROTO, ALEXANDRA

"Twitter weighting system"
POLLNER PEREL, GABRIEL ALEJANDRO
Lecture:30-07-2012 Qualification:9
Advisor: SALA ROIG, CRISTINA
Advisor: GORRICHO MORENO, JUAN LUIS

"Comparison in the two clusters merging scenario between the IEEE 802.11p MAC protocol and STDMA"
CEREZO OLIVA, JOSE MARIA
Lecture:24-07-2012 Qualification:9
Advisor: ALONSO GOMEZ, ARRATE
Advisor: PARDAS FELIU, MONTSERRAT

"Analysis of the efficiency of protocol DOCSIS 3.0 in HFC networks"
TAN, HUI
Lecture:03-07-2012 Qualification:8
Advisor: SANTOS BOADA, GERMAN

"100 GHz MST Retina for Real Time Near Field Imaging"
GARG, VAIBHAV
Lecture:26-06-2012 Qualification:9
Advisor: ALONSO DEL PINO, MARIA
Advisor: JOFRE ROCA, LUIS

"Combining two formal methods of the static analyses"
HONORAT POBBETTE, JORGE LUIS
Lecture:19-06-2012 Qualification:9
Advisor: THIRIDUX, XAVIER
Advisor: SOLE PARETA, JOSEP

"YouTube Traffic Monitoring and Analysis"
DIMOPoulos, GEORGIOS
Lecture:17-05-2012 Qualification:10
Advisor: SANJUÀS CUXART, JOSEP
Advisor: BARLET ROS, PERE

"Modification of a FPGA-based GPS receiver for reflectometry applications (GNSS-R)"
RIBOT SANFÉLIX, MIQUEL ÁNGEL
Lecture:28-10-2011 Qualification:10
Advisor: CAMPS CARMONA, ADRIANO JOSE

"Contribution to the Study, Design and Analysis of a System to Provide QoS for Virtual Networking"
MADRILES SORIANO, JOSEP ORIOL
Lecture:21-10-2011 Qualification:9.5
Advisor: HESSELBACH SERRA, XAVIER

"Cooperative signal amplification for molecular communication in nanonetworks."
ABADAL CAVALLÉ, SERGI
Lecture:19-09-2011 Qualification:10
Advisor: LLATSER MARTÍ, IGNACIO
Advisor: CABELLOS APARICIO, ALBERTO

Academic Year 2010-2011

"Fairness-adaptive Resource Allocation in OFDMA networks"
AVGOUSTIDIS, CHARALAMPOS
Lecture:01-10-2010 Qualification:9.5
Advisor: BEZERRA RODRIGUES, EMANUEL

"Performance evaluation of resource allocation algorithms for OFDMA networks"
KALLOS, GEORGIOS
Lecture:01-10-2010 Qualification:9.5
Advisor: BEZERRA RODRIGUES, EMANUEL

Academic Year 2008-2009

"Performance of Small Grid-connected Photovoltaic Systems in Ljubljana and Barcelona"
MORENZA CINOS, MARC
Lecture:30-04-2009 Qualification:8.5
Advisor: SILVESTRE BERGES, SANTIAGO

Academic Year 2007-2008

"Remote control and emulation of DLD Board through USB port"
AGNESE, DANIELE
Lecture:06-06-2008 Qualification:9.5
Advisor: CHAVEZ DOMINGUEZ, JUAN ANTONIO

"Implementation of analog-digital converter array for aperture synthesis radiometer"
DONADIO, MÁRCO
Lecture:17-01-2008 Qualification:10
Advisor: RAMOS PEREZ, ISAAC
Advisor: CAMPS CARMONA, ADRIANO JOSE

"Analysis and comparison of present P2P file-sharing systems"
DERMATAS, CONSTANTINOS
Lecture:03-10-2007 Qualification:8
Advisor: GORRICHO MORENO, JUAN LUIS

"Security in aeronautical mobile Networks"
FABRA CERVELLERA, FRANCISCO JOSÉ
Lecture:27-09-2007 Qualification:10
Advisor: JAHN, AXEL
Advisor: CRUZ LLOPIS, LUIS JAVIER DE LA

Academic Year 2006-2007

"An Optical Beamforming Network for a Wide Band Phased Array Antenna"
STOLTIDOU, CHRYSAVGI
Lecture:25-07-2007 Qualification:10
Advisor: JOFRE ROCA, LUIS

"Integration of Amadeus middleware to the Rail Distribution"
KAÏBI, CHIHED
Lecture:20-07-2007 Qualification:9
Advisor: SUAY RINCON, JAVIER
Advisor: GORRICHO MORENO, JUAN LUIS

"A Mobility aware DVB-RCS Resource Allocation Strategy"
CARIDE AGUADO, PEDRO PABLO  
Advisor: PLANIELLS, MILENA  
Advisor: OLMO BONAFA, JUAN JOSE

"Quality of Service concepts for IEEE 802.15.4 based Wireless Sensor Networks"  
GARCIA SPIRITTO, JOSE JAVIER  
Lecture: 17-07-2007  Qualification: 10  
Advisor: FALCK, THOMAS  
Advisor: AGUILAR IGARTUA, MONICA

"Study of the radio wave propagation in a railway environment"  
WOO, CHUN  
Lecture: 17-07-2007  Qualification: 9  
Advisor: JOFRE ROCA, LUIS

"Power domain control circuits for CMOS leakage reduction and fault tolerance"  
JEMNI, AYMEN  
Lecture: 13-07-2007  Qualification: 8.5  
Advisor: MADRENAS BOADAS, JORDI

"Screen and Camera Firmware development for graphical processing in automotive application"  
MIRABEL, GUILLAUME MICHEL PABLO  
Lecture: 12-07-2007  Qualification: 9  
Advisor: DAURA LUNA, FRANCESCA  
Advisor: MADRENAS BOADAS, JORDI

"Design of Compensation Circuits and Techniques for Temperature and Process Variations in a Wibree RF Front-end"  
SROKA CHALOT, MILOSZ GABRIEL  
Lecture: 05-07-2007  Qualification: 10  
Advisor: GONZALEZ JIMENEZ, JOSE LUIS

"Channel Modelling and SINR Evaluation in MBMS for LTE"  
RIBOT COLÁS, SILVIA  
Lecture: 26-06-2007  Qualification: 9  
Advisor: RODRIGUEZ FONOLLOS, JAVIER

"Communication and Signalling Systems in Oran’s Tram in Algeria"  
RADUL, VIRGINIE  
Lecture: 22-06-2007  Qualification: 9.5  
Advisor: MOLINERO HERNANDEZ, JAVIER  
Advisor: SALA ALVAREZ, JOSE

"Integration and Image Reconstruction Algorithms for an Aperture Synthesis Radiometer"  
FRASCELLA, FABIO  
Lecture: 07-06-2007  Qualification: 10  
Advisor: RAMOS PEREZ, ISAAC  
Advisor: CAMPS CARMONA, ADRIANO JOSE

"Integration and Calibration Algorithms for an Aperture Synthesis Radiometer"  
CAMPIGOTTO, PAOLO  
Lecture: 07-06-2007  Qualification: 10  
Advisor: RAMOS PEREZ, ISAAC  
Advisor: CAMPS CARMONA, ADRIANO JOSE

"Adaptive Antenna Array for Metop Satellite Signal Reception"  
KTORZA, DAVID  
Lecture: 16-05-2007  Qualification: 9  
Advisor: SIERRA PEREZ, MANUEL  
Advisor: JOFRE ROCA, LUIS

"Studying the reference of GPS satellite navigation system"  
CHINCHILLA LLACER, DAVID  
Lecture: 14-05-2007  Qualification: 10  
Advisor: MARCHEAL, JEAN  
Advisor: HERNANDEZ PAJARES, MANUEL

"Design of a Wireless Broadband Network for the L9 of the Metro of Barcelona"  
LAMSAKI MEDINA, IRENE CRISTINA  
Lecture: 09-05-2007  Qualification: 10  
Advisor: SOLA, RICARD  
Advisor: ALONSO ZARATE, LUIS GONZAGA

"Módulo de análisis estadística para Call Centers"  
PÉREZ REQUENA, MARIO JOSÉ  
Lecture: 24-04-2007  Qualification: 10  
Advisor: BANCHS MARTINEZ, RAFAEL ENRIQUE

"Development of a resistive, galvanically, separated phase-current sensor for a current range of +/- 500 A"  
GÖTZ, DANIEL MICHAEL  
Lecture: 21-03-2007  Qualification: 9.5  
Advisor: REICH, ALEXANDER  
Advisor: BRAGOS BARDIA, RAMON

"Automatic Statistical Machine Translation among English, Chinese and Spanish"  
DE LEMOS RAMOS, FRANBEL WISTHON  
Lecture: 20-03-2007  Qualification: 9.5  
Advisor: BANCHS MARTINEZ, RAFAEL ENRIQUE

"Design and implementation of a personalized Electronic Service Guide (ESG) System able to offer digital contents to portable devices"  
GONZÁLEZ ARVELO, JOSÉ DAVID  
Lecture: 16-03-2007  Qualification: 10
Advisor: PARADELLS ASPAS, JOSE

"Development of a VHDL Generator for Scheduled Data Flow Graphs"
STÜBING, HAGEN
Lecture:09-03-2007 Qualification:9.5
Advisor: MORENO AROSTEGUI, JUAN MANUEL

"Group delay measures at optical frequencies : standard modulation Phase Shift Method and new Bias-controlled amplitude-zero Shift Method. Experimental Verification"
MITRE GUTIÉRREZ, MARCO ANTONIO
Lecture:16-02-2007 Qualification:10
Advisor: SANTOS BLANCO, MARÍA CONCEPCIÓN

"Group Delay measures at Optical frequencies: standard modulation Phasy Shift Method and new Bics-controlled Amplitude-zero shift Methods. Theoretical analysis and Numerical Simulations"
DE BERNARDO RODI, SANTA PATRICIA
Lecture:16-02-2007 Qualification:10
Advisor: SANTOS BLANCO, MARÍA CONCEPCIÓN

"Elaboration of Devices based on Novel Chemically Synthesized Organic Materials"
KRAUTZ, DANNY
Lecture:29-01-2007 Qualification:10
Advisor: CHEYLAN, STEPHANIE
Advisor: PUIGDOLLERS GONZALEZ, JOAQUÍN

"Análisis y mejora del Canal de Información de Tráfico del Real Automóvil Club de Cataluña (RACC)"
AMADOZ GÓMEZ, RICARDO
Lecture:09-01-2007 Qualification:9.5
Advisor: CAÑELLAS MIRÓ, ROSA
Advisor: HESSELBACH SERRA, XAVIER
History of the Master Performance

Performance Detail

This is a detailed view for each academic year of the students performance. Note that these graphics do not include those students that were withdrawn from the Master due to poor performance in the CORE semester.

- 2015-2016
- 2013-2014
- 2012-2013
- 2011-2012
- 2010-2011
- 2009-2010
- 2005-2006
- 2004-2005

Curs 2015-2016

Curs 2013-2014

Curs 2012-2013

Curs 2011-2012

Curs 2010-2011

Curs 2009-2010

Curs 2005-2006

Curs 2004-2005
In this page you will find some of the most interesting figures regarding the Master course. We pinpoint the success and excellency with the following points:

- **Student Origins**
- **Specialization Areas**
- **Master Thesis**
- **Performance**
- **Professional Profiles**

### Student Origins

The MINT Master is a worldwide renowned high studies Master, attracting many foreign students from prestigious Universities. To view the list of student’s of procedence (Country and University) click here.

### Specialization Areas

The MINT Master currently offers three choices of specialization areas (second semester courses), namely Communications Networks, Communications and Signal Processing and Electronic Systems. The following graphic depicts the student’s specialization preferences from the Master beginning:

### Master Thesis

The MINT Master requires creating a final Thesis to obtain the Master degree. These works can be done in one of the UPC Faculties or in association with external companies or other prestigious Universities. To view the list of references of the Master's Thesis click here.

### Performance

The aim of the Master is to obtain an excellent performance of its students. The following two figures show how this is being achieved.

1. Score density probability function for the students that have fully completed the Master (Courses plus Thesis).

2. Average scores per academic year.

To view the detailed scores for each academic year, click here.
History of the Master

In this page you will find some of the most interesting figures regarding the Master course. We pinpoint the success and excellency with the following points:

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- Master Thesis
- Performance
- Professional Profiles

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A Master within the Bologna Process — Master of Science in Information and Communication Technologies — UPC. Universitat Politècnica de Catalunya BarcelonaTech.

Master of Science in Information and Communication Technologies

A Master within the Bologna Process

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The program is directed to students who want to receive a highly qualified education in the development and applications of information and communication technologies. The Master incorporates some specializations that are reviewed every year based on current demands of the labour market following a dynamic and solid model of education. Currently students are able to choose, under the supervision of an academic advisor, among the following specializations: Communication Networks, Communications and Signal Processing and Electronic Systems.

The program is designed not only to provide students with a broad knowledge in fields of study concerned, but also to train them in the necessary abilities for entrepreneurship in different areas of Telecommunication Engineering.

The following table shows the goal competences defined within the Master:

<table>
<thead>
<tr>
<th>Specific contents of the degree</th>
<th>Professional</th>
<th>Academic</th>
<th>Intellectual</th>
<th>Communication</th>
<th>Interpersonal</th>
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<tr>
<td></td>
<td>Capacity to identify, formulate and solve some specific ICT problems</td>
<td>Capacity to apply mathematical, scientific and engineering knowledge</td>
<td>Critical Thinking: Capacity to analyze and to rate different possibilities</td>
<td>Written: Ability to write projects and technical reports</td>
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The last modification: Setembre 2009
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A solid and dynamic Master program — Master of Science in Information and Communication Technologies — UPC. Universitat Politècnica de Catalunya BarcelonaTech.

Double degree with other Universities

The ETSETB-UPC is developing a joint program with other major Universities in Europe and will eventually be able to offer a double master's degree. The other universities currently participating in this program are the Royal Technological University (KTH) in Sweden, and the Politechnical Institute of Tomar in Portugal.
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Master of Science in Information and Communication Technologies

Links of interest

- Description of the Bologna Process by the Council of Europe
- Catalan Government European Higher Education Area Pilot Programs

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Links of interest — Master of Science in Information and Communication Technologies — UPC. Universitat Politècnica de Catalunya BarcelonaTech.

Master of Science in Information and Communication Technologies

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Última modificación: Septiembre 2010

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Master of Science in **Information and Communication Technologies**

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Program contents — Master of Science in Information and Communication Technologies — UPC. Universitat Politècnica de Catalunya BarcelonaTech

Master of Science in Information and Communication Technologies

Program contents

Contents

In this section you can find a detailed description and explanation of MINT contents. In order to adapt to students’ fast changing requirements, there may be changes during the course. All these can be checked at the news section.

International Master Program Features and Contents

Final Degree Awarded
Master of Science in Information and Communication Technologies

Language of Instruction
English

Structure of the Program

The whole program consists of a total of 120 ECTS credits distributed in four semesters of 30 credits each (three semesters of courses followed by a thesis project). BRIDGE courses start in September (i.e., are done only in Fall semesters).

For those students with a strong background in Electrical Engineering, the program might be completed in three semesters -90 ECTS credits (two semesters of courses and one semester for the Master thesis). Conversely to the BRIDGE courses, the CORE courses are repeated both in Fall semester and Spring semesters.

BRIDGE courses

The BRIDGE entrance is intended for students having a bachelor degrees in related areas that do not provide the required background to follow the CORE courses.

CORE admission

Direct admission to the CORE courses is for those students having a bachelor degree (four years) of Telecommunication Engineering (Electrical Engineering) studies. The CORE semester includes all compulsory courses of the master program.

Specialization

The Master MINT program features two specialities: Communications and Signal Processing and Electronics Systems, and a academic track in Telematics Engineering (enllaç a la pestanya de TELEMATICS).

Each of the two specialities offer several optional courses of 5 ECTS credits, plus other courses from other areas of study. Students are requested to take at least 3 courses in one speciality; the remaining 2 courses can be chosen from the same area, another area in the program, or among the various courses offered by the different departments of the ETSETB.

Master Thesis

The Master thesis entails the full workload of a semester. The Master thesis must be written in English. The rest of the procedures will closely follow those required for the evaluation of final projects at ETSETB. Students must defend their thesis in an oral exam by a committee that will evaluate each candidate. Ordinarily students develop the Master Thesis in the same speciality they chosen. Students can also develop the Master Thesis in one of the available company internship offered by TELECOM BCN.
Master of Science in Information and Communication Technologies

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Última modificación: Abril 2012
**Program contents**

**Contents**

In this section you can find a detailed description and explanation of Telematics contents.

**International Master Program Features and Contents**

Final Degree Awarded
Master of Science in Information and Communication Technologies, special track in Telematics Engineering

Language of Instruction
English

**Structure of the Program**

The whole program consists of a total of 120 ECTS credits distributed in four semesters. 60 ECTS credits are devoted to the CORE courses, while 30 are devoted to optional courses and the remaining 30 credits are due to the thesis project.

**Master Thesis**

The Master thesis entails the full workload of a semester. The main objective of a Master thesis is to fulfill a research project in the telematics area.

The Master thesis must be written in English. Students must defend their thesis in an oral exam by a committee that will evaluate each candidate. The committee is composed by three doctors from the Department of Telematics Engineering.

**Useful links**

http://www.entel.upc.edu/?set_language=en

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Program contents — Master of Science in Information and Communication Technologies — UPC. Universitat Politècnica de Catalunya BarcelonaTech.

Master of Science in **Information and Communication Technologies**

In this section you can find a detailed description and explanation of Telematics contents.

**International Master Program Features and Contents**

**Final Degree Awarded**
Master of Science in Information and Communication Technologies, special track in Telematics Engineering

**Language of Instruction**
English

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Última modificació: Abril 2012
Master of Science in Information and Communication Technologies

List of Courses MINT

Bridge courses

Optional courses
Electronic Systems
Communications Networks
Communications and Signal Processing

Other Specific Optional Courses
- New Generation Internet (11525 - NGI)
- GPS and Galileo Data Processing: From the Fundamentals to light accuracy navigation (11663 - GPS)
- Technology Assets Management (32120 - TAM)
- Graph and Routing Dynamics: network models and algorithms (230310 - GRD)

Master Thesis
30 ECTS credits (represents the full workload of a semester)
The Master Thesis report has to be written in English

The procedures will closely follow those required for evaluating the final projects at ETSETB
List of Courses MINT

Bridge courses

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Master Thesis
30 ECTS credits (represents the full workload of a semester)

The Master Thesis report has to be written in English

The procedures will closely follow those required for evaluating the final projects at ETSETB
List of courses Mint — Master of Science in Information and Communication Technologies — UPC. Universitat Politècnica de Catalunya BarcelonaTech.

http://mastersuniversitaris.upc.edu/mint/list-of-courses/list-of-courses-mint?set_language=es
## List of Courses Telematics

### 1st Semester (Fall)

<table>
<thead>
<tr>
<th>Subject</th>
<th>Code</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lectures on Information Technology and Society (LITS)</td>
<td>11689</td>
<td>2.5</td>
</tr>
<tr>
<td>Topics in New Technologies and Business (TNTB)</td>
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<td>Probability and Stochastic Processes (PIPE)</td>
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<tr>
<td>E - Commerce (CE)</td>
<td>11555</td>
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<tr>
<td>Advanced Programming and Distributed Applications (APDA)</td>
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<tr>
<td>Network Architectures (NA)</td>
<td>11642</td>
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<tr>
<td>Communication Theory (CT)</td>
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### 2nd Semester (Spring)

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<tr>
<th>Subject</th>
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<tbody>
<tr>
<td>Communications Systems, Networks and Services (CSNS)</td>
<td>11684</td>
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<tr>
<td>Management and Innovation in Telecommunication Companies (MITC)</td>
<td>32036</td>
<td>5</td>
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<td>Cellular Access Networks (XAC)</td>
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<tr>
<td>Cryptography and Network Security (CRPNT)</td>
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<tr>
<td>Network Intelligence (IX)</td>
<td>11561</td>
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<tr>
<td>Protocols in Telecommunications Networks (PRXT)</td>
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### Optional Courses

<table>
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<tr>
<th>Subject</th>
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<tbody>
<tr>
<td>Networking Fundamentals, Applications and Services (NFAS)</td>
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</tr>
<tr>
<td>Broadband Networks and Services (XSBA)</td>
<td>11570</td>
<td>5</td>
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<tr>
<td>3G Mobile Systems. Evolution (CM3G)</td>
<td>11529</td>
<td>5</td>
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<tr>
<td>Service Management in New Generation Networks (GSXNG)</td>
<td>13181</td>
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</tr>
<tr>
<td>Development of Web Applications (WEB)</td>
<td>11662</td>
<td>5</td>
</tr>
<tr>
<td>Advanced Mechanisms on Networks Security (MAX)</td>
<td>32040</td>
<td>5</td>
</tr>
<tr>
<td>Telecommunications Networks Planning (PLXT)</td>
<td>11661</td>
<td>5</td>
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<tr>
<td>Coded Modulation and Channel Modulation (MCCC)</td>
<td>11556</td>
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<tr>
<td>Evaluation of Packet- Switched Networks (AXC)</td>
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<tr>
<td>Pricing Communications Networks (PEPXC)</td>
<td>32032</td>
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<tr>
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List of Courses Telematics — Master of Science in Information and Communication Technologies — UPC. Universitat Politècnica de Catalunya BarcelonaTech.

http://mastersuniversitaris.upc.edu/mint/list-of-courses/list-of-courses-telematics?set_language=ca[02/02/2017 10:24:35]
# Master of Science in Information and Communication Technologies

## List of Courses Telematics

### 1st Semester (Fall)

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<tr>
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Requirements for double degree students — Master of Science in Information and Communication Technologies — UPC. Universitat Politècnica de Catalunya BarcelonaTech.

**Requirements for double degree students**

Same academic requirements for the double degree, have been established in agreement with our partner universities.

All students are required to prove a good level of English (TOEFL: minimum 573pts paper-based, 230pts computer-based; 88pts internet-based or similar). If undergraduate studies have been held in English, it is sufficient to provide certification by the degree-awarding institution.

The following documents have to be sent through the Application Form:

- Application form with the approval of your home institution.
- Official transcript of records from each institution attended at the university level.
- TOEFL score report or equivalent language certification.
- Curriculum Vitae.
- 2 Letters of reference.
Requirements for double degree students — Master of Science in Information and Communication Technologies — UPC. Universitat Politècnica de Catalunya BarcelonaTech.

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- 2 Letters of reference.
Requirements for ETSETB former students

Once they are graduated, ETSETB former students are required to prove a good level of English (TOEFL: minimum 573pts paper-based, 230pts computer-based; 88pts internet-based or Certificate in Advanced English, CAE).

Under this conditions they will be directly admitted by just fulfilling the application for as regular students. They will have to course 60 ECTS.
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The applicants must demonstrate skills in:

**Mathematics**

**Linear Systems**
Time continuous and time discrete signals and systems, e.g. corresponding to the following text: OPPENHEIM, A.V. and SHAFER, R.W. Discrete-time signal processing. 2nd ed. Prentice Hall, 1999.

**Electronic Design**

**Network Communications**

**Software engineering including programming (C or equivalent)**

**Fundamental classical electromagnetics in simple media**
Academic background — Master of Science in Information and Communication Technologies — UPC. Universitat Politècnica de Catalunya BarcelonaTech.

Master of Science in **Information and Communication Technologies**

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**Network Communications**


**Software engineering including programming (C or equivalent)**


**Fundamental classical electromagnetics in simple media**

Besides of the academic background, students are required to prove a good level of English (for example, for TOEFL: minimum 573 pts paper-based, 230 pts computer-based; 88 pts internet-based or similar). If undergraduate studies have been held in English, it is sufficient to provide certification by the degree-awarding institution.

The following documents have to be submitted through the Application Form:

- Certified copies of your BSc, Engineering degree or MSc diploma.
- Official transcript of records from each institution attended at the university level.
- TOEFL (or equivalent) score report.
- Curriculum Vitae.
- 2 Letters of reference.
- Statement of purpose and a description of the applicant’s professional and academic background.
- Other documents that would clarify the qualifications of the applicant, e.g. GRE test (recommended but not mandatory) and a short summary of the BSc thesis, Engineering degree final project or MSc thesis realized by the applicant.
Master of Science in Information and Communication Technologies

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Master of Science in Information and Communication Technologies (MINT)

The Master of Science in Information and Communication Technologies (MINT) is a Telecommunication Engineering International Master designed to train highly qualified professionals in the development and application of information and communication technologies.

The program’s methodology and credits’ validation is based on the recommendations established by the "European Higher Education Area" and was a pioneer program (experience) in Spain in implementing the Bologna Process. Courses are taught entirely in English by faculty with a depth of experience in teaching and research. [Since the academic year 2006-07, it has become an official degree program.]

This Master program is offered by the School of Telecommunication Engineering of Barcelona (Escola Tècnica Superior d'Enginyeria de Telecomunicació de Barcelona, ETSETB) that is a part of the Technical University of Catalonia (Universitat Politècnica de Catalunya, UPC). The ETSETB is the second oldest school in Spain, currently the largest in Catalonia (in the area) and has been ranked the best technical university in Spain a number of times since its creation.

Master in Telematics Engineering (TELEMATICS)

From this academic year (2012-13) on, Master MINT includes a new academic track comprising the most substantial part of the former Master in Telematics Engineering (MENTEL).

This Track provides a postgraduate education covering basic and advanced concepts of telematic networks, systems and services. Graduates of this Track may want to pursue careers in a research institution by completing a Ph.D. or joining industrial R+D departments. It is aimed at anyone interested in building on their knowledge and gaining an ability to carry out research in the field of telematics engineering who meets the general and specific access requirements.
Titulars en RSS

RSS (sigla de Really Simple Syndication) és un canal de distribució de continguts que s'actualitzen sovint, com ara llocs de notícies, weblogs o podcasts, i per mitjà del qual es pot compartir la informació i usar-la en altres llocs web o programes. És en essència una sindicació de continguts.

El principal avantatge del sistema és l'agilitat, ja que no cal descarregar les imatges i els altres elements del web, només els titulars, i també es pot ajuntar el contingut de molts llocs web en un sol espai. Gràcies a aquesta tecnologia, els usuaris ja no s'han de preocupar de comprovar si hi ha novetats que els interessin en un determinat espai digital, sinó que poden rebre i organitzar els nous titulars d'un espai digital en el mateix moment que es publiquen.

Els programes que utilitzen RSS s'anomenen agregadors. N'hi ha de molts tipus: incrustats a navegadors web, widgets per a l'escriptori, en programes de correu electrònic, en pàgines web dedicades i en programes dedicats.

RSS UPC

Agenda UPC
Notícies UPC
Notícies de recerca
UPCtv, últims vídeos publicats
Biblioteca

Aquest web utilitza cookies pròpies per oferir-li una millor experiència i servei. En continuar amb la navegació entenem que accepta la nostra política de cookies.
Master of Science in Information and Communication Technologies

Accessibilitat

La Universitat Politècnica de Catalunya · BarcelonaTech (UPC) té entre els seus objectius posar a l'abast de la comunitat universitària i de la societat una web amb disseny accessible independentment de les possibles limitacions que poguessin condicionar l'accés al lloc web, ja siguin ocasionades per l'entorn, la connexion o de caràcter personal.

Segons el Reial decret 1494/2007, de 12 de novembre, "La informació disponible a les pàgines d'Internet de les administracions públiques haurà de ser accessibles a les persones majors i persones amb discapacitat, amb un nivell mínim d'accessibilitat que compleixi les prioritats 1 i 2 de la Norma UNEIX 139803:2004." (...) Així mateix, serà obligatori allò expressat en aquest apartat per a les pàgines d'Internet i els seus continguts, dels centres públics educatius, de formació i universitaris, així com, dels centres privats sostinguts, total o parcialment, amb fons públics.

Aquest lloc web ha estat generat amb el Genweb UPC v3, una eina que permet la creació i gestió de webs segons el llibre d'estil institucional de la UPC.

El Genweb UPC v3 ha estat desenvolupat conjuntament pel Servei de Comunicació de la UPC i UPCnet utilitzant com a base el sistema de gestió de continguts de programari lliure Plone. S'ha dissenyat perquè sigui completament accessible i usable, funcionant d'acord amb les guies d'accessibilitat W3C de contingut web.

Pautes WAI

Els continguts del web de la UPC han estat validats amb la certificació Doble-A, segons les recomanacions de la WAI (Web Accessibility Initiative), grup de treball internacional que pertany al W3C (World Wide Web Consortium), organisme que vetlla perquè cap col·lectiu pateix discriminacions de cap mena que puguin ser causa de fractures socials en el món virtual.

En aquest sentit, les tècniques emprades al web de la UPC encaixen amb el que la WAI preconitza, tant per al marcat XHTML 1.0 com per al CSS.

Canvis de mides als principals navegadors

Mozilla Firefox
- **Augmentar la mida del text:** CTRL + Roda del ratolí endarrere, CTRL + + (tecla més) o Visualitza > Mida de la pàgina > Augmenta
- **Reduir la mida del text:** CTRL + Roda del ratolí endavant, CTRL + – (tecla menys) o Visualitza > Mida de la pàgina > Redueix
- **Recuperar la vista original:** CTRL + 0 (zero) o Visualitza > Mida del text > Mitjà

Safari
- **Augmentar la mida del text:** Command (Mac) / CTRL (PC) + + (tecla més) o Ver > Incrementar texto
- **Reduir la mida del text:** Command (Mac) / CTRL (PC) + – (tecla menys) o Ver > Disminuir texto
- **Recuperar la vista original:** Command (Mac) / CTRL (PC) + 0 o Ver > Tamaño normal del texto

Internet Explorer
- **Augmentar la mida del text:** CTRL + Roda del ratolí endarrere, CTRL + + (tecla més) o Visualitza > Mida del text > Gran, Molt gran
- **Reduir la mida del text:** CTRL + Roda del ratolí endavant, CTRL + – (tecla menys) o Visualitza > Mida del text > Petít, Molt petit
- **Recuperar la vista original:** CTRL + 0 (zero, no amb el teclat numèric) o Visualitza > Mida del text > Mitjà

Opera
- "..."
Augmentar la mida del text: CTRL + Roda del ratolí endavant o Visualitza > Escala > 120% i més
Reduir la mida del text: CTRL + Roda del ratolí endarrere o Visualitza > Escala > 80% i menys
Recuperar la vista original: Visualitza > Escala > 100%

Chrome
Augmentar la mida del text: CTRL + Roda del ratolí endavant, CTRL + + (tecla més) o Control de pàgina > Zoom > Més gran
Reduir la mida del text: CTRL + Roda del ratolí endarrere, CTRL + – (tecla menys) o Control de pàgina > Zoom > Més petit
Recuperar la vista original: CTRL + 0 (zero, no amb el teclat numèric) o Control de pàgina > Zoom > Normal

Tecles d'accés
Les tecles d'accés són un dispositiu de navegació que permet visitar aquest web utilitzant el teclat.
Més informació sobre les tecles d'accés: Guies d'accessibilitat W3C.

Aquest web utilitza una configuració que coincideix amb la majoria de recomanacions d'accessibilitat internacionals.

Tecles d'accés disponibles
1 — Pàgina d'inici
2 — Vés al contingut
3 — Mapa del web
4 — Focus al camp de cerca
6 — Arbre de navegació
9 — Informació de contacte
0 — Consulta accessibilitat

Contacte
Actualment, continuem treballant per mantenir i millorar l'accessibilitat de totes les pàgines del web. Si observeu alguna anomalia, relacionada amb l'accessibilitat, contacteu si us plau amb l'Administració del web.

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**Titulares en RSS**

RSS (sigla de Really Simple Syndication) es un canal de distribución de contenidos que se actualizan a menudo, como sitios de noticias, weblogs o podcasts, por medio del cual se puede compartir la información y utilizarla en otros sitios web o programas. Es en esencia una sindicación de contenidos.

La principal ventaja del sistema es la agilidad, puesto que ya no hay que descargar las imágenes y otros elementos del web, solo los titulares, y también se puede juntar el contenido de muchos sitios web en un solo espacio. Gracias a esta tecnología, los usuarios ya no deben preocuparse de comprobar si hay novedades que les interesen en un determinado espacio digital, sino que pueden recibir y organizar los nuevos titulares de un espacio digital en el momento mismo en que se publican.

Los programas que utilizan RSS se denominan **agregadores**. Existen muchos tipos de agregadores: incrustados en navegadores web, widgets para el escritorio, en programas de correo electrónico, en páginas web dedicadas y en programas dedicados.

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**RSS UPC**

- Agenda UPC
- Noticias UPC
- UPCtv, últimos videos publicados
- Biblioteca
La Universitat Politècnica de Catalunya · BarcelonaTech (UPC) tiene entre sus objetivos poner al alcance de la comunidad universitaria y de la sociedad una web con diseño accesible independientemente de las posibles limitaciones que puedan condicionar su acceso, ya sean ocasionadas por el entorno o la conexión o a causa de su carácter personal.

El Real decreto 1494/2007, de 12 de noviembre, establece: "La información disponible en las páginas de internet de las administraciones públicas deberá ser accesible a las personas mayores y personas con discapacidad, con un nivel mínimo de accesibilidad que cumpla las prioridades 1 y 2 de la Norma UNE 139803:2004. [...] Asimismo, será obligatorio lo expresado en este apartado para las páginas de Internet y sus contenidos, de los centros públicos educativos, de formación y universitarios, así como, de los centros privados sostenidos, total o parcialmente, con fondo públicos."

Este sitio web ha sido generado con Genweb UPC v3, una herramienta que permite la creación y gestión de webs según el libro de estilo institucional de la UPC.

El Genweb UPC v3 ha sido desarrollado conjuntamente por el Servicio de Comunicación de la UPC y UPCnet utilizando como base el sistema de gestión de contenidos de software libre Plone. Se ha diseñado para que sea completamente accesible e usable, funcionando de acuerdo con las guías de accesibilidad W3C de contenido web.

Pautas WAI

Los contenidos de la web de la UPC han sido validados con la certificación Doble-A, según las recomendaciones de la WAI (Web Accessibility Initiative), grupo de trabajo internacional perteneciente al W3C (World Wide Web Consortium), organismo que vela porque ningún colectivo sufra discriminaciones de ningún tipo que puedan ser causa de fracturas sociales en el mundo virtual.

En este sentido, las técnicas empleadas en la web de la UPC encajan con lo que la WAI preconiza, tanto para el mercado XHTML 1.0 como para el CSS.

Cambios de tamaños en los principales navegadores

Mozilla Firefox

Aumentar el tamaño del texto: CTRL + Rueda del ratón atrás, CTRL + + (tecla más) o Ver > Tamaño > Aumentar

Reducir el tamaño del texto: CTRL + Rueda del ratón adelante, CTRL + – (tecla menos) o Ver > Tamaño > Reducir

Recuperar la vista original: CTRL + 0 (cero) o Ver > Tamaño > Restablecer

Safari

Aumentar el tamaño del texto: Command (Mac) / CTRL (PC) + + (tecla más) o Ver > Incrementar texto

Reducir el tamaño del texto: Command (Mac) / CTRL (PC) + – (tecla menos) o Ver > Disminuir texto

Recuperar la vista original: Command (Mac) / CTRL (PC) + 0 o Ver > Tamaño normal del texto

Internet Explorer

Aumentar el tamaño del texto: CTRL + Rueda del ratón adelante, CTRL + + (tecla más) o Ver > Tamaño del texto > Grande, Muy grande

Reducir el tamaño del texto: CTRL + Rueda del ratón atrás, CTRL + – (tecla menos) o Ver > Tamaño del texto > Pequeño, Muy pequeño

Recuperar la vista original: CTRL + 0 (cero, no con el teclado numérico) o Ver > Tamaño del texto > Mediano
Teclas de acceso

Las teclas de acceso son un dispositivo de navegación que permite visitar este web utilizando el teclado.

Más información sobre las teclas de acceso: Guías de accesibilidad W3C.

Este web utiliza una configuración que coincide con la mayoría de recomendaciones de accesibilidad internacionales.

Teclas de acceso disponibles

1 — Página de inicio
2 — Ir al contenido
3 — Mapa del web
4 — Foco en el campo de búsqueda
6 — Árbol de navegación
9 — Información de contacto
0 — Consulta accesibilidad

Contacto

Actualmente, continuamos trabajando para mantener y mejorar la accesibilidad de todas las páginas de la web. Si observa alguna anomalía, relacionada con la accesibilidad, contacte por favor con la Administración del web.

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Master of Science in Information and Communication Technologies

List of courses

- List of courses Mint
- List of Courses Telematics
Admission requirements to the core semester — Master of Science in Information and Communication Technologies — UPC. Universitat Politècnica de Catalunya BarcelonaTech.

Admission requirements to the core semester

Admission requirements for the core semester

Note: Important academic requirement common to all applicants:

Following nation-wide regulations which affect all postgraduate studies, all applicants to the MINT master are required to be graduated from an accredited institution with bachelor’s degree requirements (minimum) to be considered for admission.

Since the academic level in the International MSc program is highly advanced, a thorough basic knowledge in electrical or telecommunications engineering fields or a closely related field of study is required for admission.

Previous diplomas of applicants should be of substantial quality. Proficiency in English is also required.

The applications are evaluated on the basis of the documents and information submitted by the applicant. The school will evaluate each applicant’s capability to complete the MSc program successfully either in two years (starting from the BRIDGE semester) or in one and a half years (starting directly from the CORE semester).
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Master of Science in Information and Communication Technologies

Application Form 2012-13

Steps to follow

These are the steps to follow to properly perform the registration process:

1. Identify your profile and the corresponding admission requirements:
   - Regular students
   - Double degree students
   - ETSETB former students

2. Fulfil the admission form at the university Master’s degree pre-enrolment page before 30th June 2012.

You are here: Home » Application Form

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Academic Performance Requirements

Master scholarships

Internship in companies.
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Internships towards completing the master thesis

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Application Form 2012-13 — Master of Science in Information and Communication Technologies — UPC. Universitat Politècnica de Catalunya BarcelonaTech.

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Academic Performance Requirements

Given the outstanding academic achievements and excellent background of the students admitted to the MINT program it is not expected that these students will have any difficulty satisfying all requirements of the Master program, i.e., passing all courses, and producing a high quality Master Thesis.

Nevertheless, in order to ensure excellence, the MINT Board has established a set of rules applicable to all MINT students. These rules are the following:

1. Registering for all required credits (30 ECTS) scheduled per semester is mandatory

2. Achieving a minimum academic performance, which consists of:
   - Obtaining not less than 20 ECTS credits per semester.
   - Completing the program requirements in at most five semesters.

3. Students not achieving the minimum required academic performance will be asked to withdraw from the program.

The MINT Board is available to guide students for a successful completion of the program. The Board may also assess particular cases of students failing to comply with the minimum requirements and may re-consider any required withdrawal.
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For further information:

Ministry of Science and Innovation  
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Internship in companies. Information for students

Internship in companies. Information for students
Internship in companies. Information for students
Internships towards completing the master thesis

In this section you will find various choices for obtaining an internship for your master thesis:

- Intel Shannon

**Master thesis in Intel Shannon:**

Intel Shannon in Ireland offers a collaborative internship for completing your master thesis in both its silicon and software departments. If you are interested in an internship association in the software department, you can send your CV to Ken Reynolds at ken.reynolds@intel.com with the option you have selected for the second semester (Networking, Signal processing,...) and your courses details.

The best time to contact them will be around May for a project starting in September. If you have any informal questions, you can contact Mathieu Perrier at mathieu.perrier@intel.com.

last modified: November 2009
History of the Master

In this page you will find some of the most interesting figures regarding the Master course. We pinpoint the success and excellency with the following points:

- Student Origins
- Specialization Areas
- Master Thesis
- Performance
- Professional Profiles

Student Origins

The MINT Master is a worldwide renowned high studies Master, attracting many foreign students from prestigious Universities.

To view the list of students' of procedence (Country and University) click here.

Specialization Areas

The MINT Master currently offers three choices of specialization areas (second semester courses), namely Communications Networks, Communications and Signal Processing and Electronic Systems.

The following graphic depicts the student's specialization preferences from the Master beginning:

Master Thesis

The MINT Master requires creating a final Thesis to obtain the Master degree. These works can be done in one of the UPC Faculties or in association with external companies or other prestigious Universities.

To view the list of references of the Master's Thesis click here.

Performance

The aim of the Master is to obtain an excellent performance of its students. The following two figures show how this is being achieved.

1. Score density probability function for the students that have fully completed the Master (Courses plus Thesis).

2. Average scores per academic year.

To view the detailed scores for each academic year, click here.
Master of Science in **Information and Communication Technologies**

Sou a: Inici » History of the Master » Student Origins

Informació general del màster

**History of the Master**

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Advisor: SOLE PARETA, JOSEP

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Lecture:13-12-2013 Qualification:9
Advisor: CAREGLO, DAVIDE
Advisor: PERELLO MUNTAN, JORDI

"SNAVA: A Generic Threshold-Based-SNN Emulation Solution"
TIRUVENDIPURA ACHYUTHA RAGHAVAN , ATHUL SRIPAD
Lecture:25-09-2013 Qualification:9.5
Advisor: SANCHEZ RIVERA, GIOVANNY
Advisor: MADRENAS BOADAS, JORDI

Academic Year 2012-2013

"Wireless Sensor Networks on-board aircrafts: design and implementation of medium access control protocol"
SÁNCHEZ-CAMACHO YEBRA, CRISTIAN
Lecture:16-12-2013 Qualification:9
Advisor: HAFID FAZLI, ERIZA
Advisor: PARADELLS ASPAS, JOSE

"How to combine in one view the global cost and duration of a trip"
USKOKOVIC , MARKO
Lecture:22-05-2013 Qualification:9.5
Advisor: DUCHENE, FLORENCE AGNES SYLVIE
Advisor: SANTOS BOADA, GERMAN

"A High Speed Solution for Aircraft Ground Communications"
RODRÍGUEZ AGUILERA, GRACE MARY
Lecture:16-05-2013 Qualification:9.5
Advisor: DURSTEWITZ, MARKUS
Advisor: CASADEMONT SERRA, JORDI

"Performance Evaluation of a Game Theoretical routing protocol over Mobile Ad Hoc Networks"
KHALILI , HAMZEH
Lecture:17-04-2013 Qualification:8
Advisor: AGUILAR IGARTUA, MONICA

"Simulation-based characterized environment for THz band Graphene antennas targeting WNoC"
SINGH , RANJEET
Lecture:13-02-2013 Qualification:8
Advisor: CABELLOS APARICIO, ALBERTO
Advisor: ALARCON COT, EDUARDO JOSE

"Automatic DC Offset Cancellation in Built-in Differential Temperature Sensors"
MASHAYEKHI , MOHAMMAD
Lecture:19-12-2012 Qualification:6.5
Advisor: ALTET SANAHUJES, JOSEP

Academic Year 2011-2012

"2D Liquid Lens Based on EWOD"
AHMADI ZEIDABADI , MAZIAR
Lecture:10-09-2012 Qualification:10
Advisor: BERMEJO BROTO, ALEXANDRA

"Twitter weighting system"
POLLNER PEREL, GABRIEL ALEJANDRO
Lecture:20-07-2012 Qualification:9
Advisor: SALA ROIG, CRISTINA
Advisor: GORRICHMO MORENO, JUAN LUIS

"Comparison in the two clusters merging scenario between the IEEE 802.11p MAC protocol and STDMA"
CEREZO OLIVA, JOSE MARIA
Lecture:24-07-2012 Qualification:9
Advisor: ALONSO GOMEZ, ARRATE
Advisor: PARDAS FELIU, MONTSERRAT

"Analysis of the efficiency of protocol DOCSIS 3.0 in HFC networks"
TAN , HUI
Lecture:03-07-2012 Qualification:8
Advisor: SANTOS BOADA, GERMAN

"100 GHz MST Retina for Real Time Near Field Imaging"
GARG , VAIBHAV
Lecture:26-06-2012 Qualification:9
Advisor: ALONSO DEL PINO, MARIA
Advisor: JOFRE ROCA, LUIS

"Combining two formal methods of the static analyses"
HONORAT POBLETTE, JORGE LUIS
Lecture:19-06-2012 Qualification:9
Advisor: THIRIDUX, XAVIER
Advisor: SOLE PARETA, JOSEP

"YouTube Traffic Monitoring and Analysis"
DIMOPoulos , GEORGios
Lecture:17-05-2012 Qualification:10
Advisor: SANJUÀS CUXART, JOSEP
Advisor: BARLET ROS, PERE

"Modification of a FPGA-based GPS receiver for reflectometry applications (GNSS-R)"
RIBOT SANFÉLIX, MIGUEL ÁNGEL
Lecture:28-10-2011 Qualification:10
Advisor: CAMPS CARMONA, ADRIANO JOSE

"Contribution to the Study, Design and Analysis of a System to Provide QoS for Virtual Networking"
MADRILES SORIANO, JOSEP ORIOL
Lecture:21-10-2011 Qualification:9.5
Advisor: HESSELBACH SERRA, XAVIER

"Fairness-adaptive Resource Allocation in OFDMA networks"
AVGOUSTIDIS , CHARALAMPOS
Lecture:01-10-2010 Qualification:9.5
Advisor: BEZERRA RODRIGUES, EMANUEL

"Performance evaluation of resource allocation algorithms for OFDMA networks"
KALLOS , GEORGios
Lecture:01-10-2010 Qualification:9.5
Advisor: BEZERRA RODRIGUES, EMANUEL

"Performance of Small Grid-connected Photovoltaic Systems in Ljubljana and Barcelona"
MORENZA CINOS, MARC
Lecture:30-04-2009 Qualification:8.5
Advisor: SILVESTRE BERGES, SANTIAGO

"Implementation of analog-digital converter array for aperture synthesis radiometer"
DONADIO , MARCO
Lecture:17-01-2008 Qualification:10
Advisor: CAMPS CARMONA, ADRIANO JOSE

"Analysis and comparison of present P2P file-sharing systems"
DERMATAS , KONSTANTINOS
Lecture:03-10-2007 Qualification:8
Advisor: GORRICHO MORENO, JUAN LUIS

"An Optical Beamforming Network for a Wide Band Phased Array Antenna"
STOLTIDOU , CHRYSAVGI
Lecture:25-07-2007 Qualification:10
Advisor: JOFRE ROCA, LUIS

"Integration of Amadeus middleware to the Rail Distribution"
KAÌBI , CHIHEB
Lecture:20-07-2007 Qualification:9
Advisor: SUAY KINCON, JAVIER
Advisor: GORRICHO MORENO, JUAN LUIS

"A Mobility aware DVB-RCS Resource Allocation Strategy"
CARIDE AGUADO, PEDRO PABLO  
**Lecture:** 20-07-2007  
**Qualification:** 9.5  
**Advisor:** PLANELLS, MILENA  
**Advisor:** MADRENAS BOADAS, JORDI

"Quality of Service concepts for IEEE 802.15.4 based Wireless Sensor Networks"  
GARCIA SPIRITO, JOSE JAVIER  
**Lecture:** 17-07-2007  
**Qualification:** 10  
**Advisor:** FALCK, THOMAS  
**Advisor:** AGUILAR IGARTUA, MONICA

"Study of the radio wave propagation in a railway environment"  
WOO, CHUN  
**Lecture:** 17-07-2007  
**Qualification:** 9  
**Advisor:** JOFRE ROCA, LUIS

"Power domain control circuits for CMOS leakage reduction and fault tolerance"  
JEMNI, AYMEN  
**Lecture:** 13-07-2007  
**Qualification:** 8.5  
**Advisor:** MADRENAS BOADAS, JORDI

"Screen and Camera Firmware development for graphical processing in automotive application"  
MIRABEL, GUILLAUME MICHEL PABLO  
**Lecture:** 12-07-2007  
**Qualification:** 9  
**Advisor:** DAURA LUNA, FRANCESC  
**Advisor:** MADRENAS BOADAS, JORDI

"Design of Compensation Circuits and Techniques for Temperature and Process Variations in a Wibree RF Front-end"  
SROKA CHALOT, MILOSZ GABRIEL  
**Lecture:** 05-07-2007  
**Qualification:** 10  
**Advisor:** GONZALEZ JIMENEZ, JOSE LUIS

"Channel Modelling and SINR Evaluation in MBMS for LTE"  
RIBOT COLÁS, SILVIA  
**Lecture:** 26-06-2007  
**Qualification:** 9  
**Advisor:** RODRIGUEZ FONOLLOSA, JAVIER

"Communication and Signalling Systems in Oran’s Tram in Algeria"  
RAOU , VIRGINIE  
**Lecture:** 22-06-2007  
**Qualification:** 9.5  
**Advisor:** SALA ALVAREZ, JOSE

"Integration and Image Reconstruction Algorithms for an Aperture Synthesis Radiometer"  
FRASCELLA, FABIO  
**Lecture:** 07-06-2007  
**Qualification:** 10  
**Advisor:** RAMOS PEREZ, ISAAC  
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"Adaptive Antenna Array for Metop Satellite Signal Reception"  
KTORZA, DAVID  
**Lecture:** 16-05-2007  
**Qualification:** 9  
**Advisor:** SIERRA PEREZ, MANUEL  
**Advisor:** JOFRE ROCA, LUIS

"Studying the reference of GPS satellite navigation system"  
CHINCHILLA LLÁCER, DAVID  
**Lecture:** 14-05-2007  
**Qualification:** 10  
**Advisor:** MARECHAL, JEAN  
**Advisor:** HERNANDEZ PAJARES, MANUEL

"Design of a Wireless Broadband Network for the L9 of the Metro of Barcelona"  
LAMSAKI MEDINA, IRENE CRISTINA  
**Lecture:** 09-05-2007  
**Qualification:** 10  
**Advisor:** SOLA, RICARD  
**Advisor:** ALONSO ZARATE, LUIS GONZAGA

"Módulo de análisis estadístico para Call Centers"  
PÉREZ REQUENA, MARIO JOSÉ  
**Lecture:** 24-04-2007  
**Qualification:** 10  
**Advisor:** BECH, SERGI  
**Advisor:** BANCHS MARTINEZ, RAFAEL ENRIQUE

"Development of a resistive, galvanically, separated phase-current sensor for a current range of +/- 500 A"  
GÖTZ, DANIEL MICHAEL  
**Lecture:** 21-03-2007  
**Qualification:** 9.5  
**Advisor:** REICH, ALEXANDER  
**Advisor:** BRAGOS BARDA, RAMON

"Automatic Statistical Machine Translation among English, Chinese and Spanish"  
DE LEMOS RAMOS, FRANBEL WISTHON  
**Lecture:** 20-03-2007  
**Qualification:** 9.5  
**Advisor:** BANCHS MARTINEZ, RAFAEL ENRIQUE

"Design and implementation of a personalized Electronic Service Guide (ESG) System able to offer digital contents to portable devices"  
GONZÁLEZ ARVELO, JOSÉ DAVID  
**Lecture:** 16-03-2007  
**Qualification:** 10
Advisor: PARADELLS ASPAS, JOSE
- "Development of a VHDL Generator for Scheduled Data Flow Graphs"
  Lecture: 09-03-2007 Qualification: 9.5
  Advisor: MORENO AROSTEGUI, JUAN MANUEL

Advisor: STÜBING, HAGEN
- "Group delay measures at optical frequencies : standard modulation Phase Shift Method and new Bias-controlled amplitude-zero Shift Method. Experimental Verification"
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  Advisor: SANTOS BLANCO, MARÍA CONCEPCIÓN

Advisor: DE BERNARDO RODI, SANTA PATRICIA
- "Elaboration of Devices based on Novel Chemically Synthesized Organic Materials"
  Lecture: 29-01-2007 Qualification: 10
  Advisor: PUGIDOLLERS GONZALEZ, JOAQUIN

Advisor: KRAUTZ, DANNY
- "Análisis y mejora del Canal de Información de Tráfico del Real Automóvil Club de Cataluña (RACC)"
  Lecture: 09-01-2007 Qualification: 9.5
  Advisor: CAÑELLAS MIRÓ, ROSA
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Lecture: 13-12-2013 Qualification: 9
Advisor: CAREGLIO, DAVIDE
Advisor: PERELLO MUNTAN, JORDI

"SNAVA: A Generic Threshold-Based-SNN Emulation Solution"
TIRUVENDIPURA ACHYUTHA RAGHAVAN, ATHUL SRIPAD
Lecture: 25-09-2013 Qualification: 9.5
Advisor: SANCHEZ RIVERA, GIOVANNY
Advisor: MADRENAS BOADAS, JORDI

Academic Year 2012-2013

"Wireless Sensor Networks on-board aircrafts: design and implementation of medium access control protocol"
SÁNCHEZ-CAMACHO YEBRA, CRISTIAN
Lecture: 16-12-2013 Qualification: 9
Advisor: HAFID FAZLI, ERIZA
Advisor: PARADELLS ASPAS, JOSE

"How to combine in one view the global cost and duration of a trip"
USKOKOVIC, MARKO
Lecture: 22-05-2013 Qualification: 9.5
Advisor: DUCHENE, FLORENCE AGNES SYLVIE
Advisor: SANTOS BOADA, GERMAN

"A High Speed Solution for Aircraft Ground Communications"
RODRÍGUEZ AGUILERA, GRACE MARY
Lecture: 16-05-2013 Qualification: 9.5
Advisor: DURSTEWITZ, MARKUS
Advisor: CASADEMONT SERRA, JORDI

"Performance Evaluation of a Game Theoretical routing protocol over Mobile Ad Hoc Networks"
KHALILI, HAMZEH
Lecture: 17-04-2013 Qualification: 8
Advisor: AGUILAR IGARTUA, MONICA

"Simulation-based characterized environment for THz band Graphene antennas targeting WNoC"
SINGH, RANJEET
Lecture: 13-02-2013 Qualification: 8
Advisor: CABELLOS APARICIO, ALBERTO
Advisor: ALARCON COT, EDUARDO JOSE

"Automatic DC Offset Cancellation in Built-in Differential Temperature Sensors"
MASHAYEKHI, MOHAMMAD
Lecture: 19-12-2012 Qualification: 6.5
Advisor: ALTET SANAHUJES, JOSEP

Academic Year 2011-2012

"2D Liquid Lens Based on EWOD"
AHMADI ZEIDABADI, MAZIAR
Lecture: 10-09-2012 Qualification: 10
Advisor: BERMEJO BROTO, ALEXANDRA

"Twitter weighting system"
POLLNER PEREL, GABRIEL ALEJANDRO
Lecture: 30-07-2012 Qualification: 9
Advisor: SALA ROIG, CRISTINA
Advisor: GORRICHO MORENO, JUAN LUIS

"Comparison in the two clusters merging scenario between the IEEE 802.11p MAC protocol and STDMA"
CEREZO OLIVA, JOSE MARIA
Lecture: 24-07-2012 Qualification: 9
Advisor: ALONSO GOMEZ, ARRATE
Advisor: PARDAS FELIU, MONTSERRAT

"Analyzis of the efficiency of protocol DOCSIS 3.0 in HFC networks"
TAN, HUI
Lecture: 03-07-2012 Qualification: 8
Academic Year 2010-2011

- "100 GHz MST Retina for Real Time Near Field Imaging"
  GARG, VAIBHAV
  Lecture: 26-06-2012 Qualification: 9
  Advisor: ALONSO DEL PINO, MARIA
  Advisor: JOFRE ROCA, LUIS

- "Combining two formal methods of the static analyses"
  HONORAT POBLETTE, JORGE LUIS
  Lecture: 19-06-2012 Qualification: 9
  Advisor: THIRIDUX, XAVIER
  Advisor: SOLE PARETA, JOSEP

- "YouTube Traffic Monitoring and Analysis"
  DIMOPOULOS, GEORGIOS
  Lecture: 17-05-2012 Qualification: 10
  Advisor: SANJUÀS CUXART, JOSEP
  Advisor: BARLET ROS, PERE

Academic Year 2008-2009

- "Modification of a FPGA-based GPS receiver for reflectometry applications (GNSS-R)"
  RIBOT SANFÉLIX, MISUEL ÁNGEL
  Lecture: 28-10-2011 Qualification: 10
  Advisor: CAMPS CARMONA, ADRIANO JOSE

- "Combination of two formal methods of the static analyses"
  HONORAT POBLETTE, JORGE LUIS
  Lecture: 19-06-2012 Qualification: 9
  Advisor: THIRIDUX, XAVIER
  Advisor: SOLE PARETA, JOSEP

Academic Year 2007-2008

- "Remote control and emulation of DLD Board through USB port"
  AGNESE, DANIELE
  Lecture: 06-06-2008 Qualification: 9.5
  Advisor: CHAVEZ DOMINGUEZ, JUAN ANTONIO

- "Implementation of analog-digital converter array for aperture synthesis radiometer"
  DONADIO, MÁRCO
  Lecture: 17-01-2008 Qualification: 10
  Advisor: RAMOS PEREZ, ISAAC
  Advisor: CAMPS CARMONA, ADRIANO JOSE

- "Security in aeronautical mobile Networks"
  FABRA CERVELLERA, FRANCISCO JOSÉ
  Lecture: 27-09-2007 Qualification: 10
  Advisor: JAHN, AXEL
  Advisor: CRUZ LLOPIS, LUIS JAVIER DE LA

Academic Year 2006-2007

- "An Optical Beamforming Network for a Wide Band Phased Array Antenna"
  STOLTIDOU, CHRYSAVGI
  Lecture: 25-07-2007 Qualification: 10
  Advisor: JOFRE ROCA, LUIS

- "Integration of Amadeus middleware to the Rail Distribution"
  KAÏBI, CHIHÉB
  Lecture: 20-07-2007 Qualification: 9
  Advisor: SUAY RINCON, JAVIER
  Advisor: GORRISO MORENO, JUAN LUIS

- "A Mobility aware DVB-RCS Resource Allocation Strategy"
CARIDE AGUADO, PEDRO PABLO
Advisor: PLANIETT, MILENA
Advisor: OLMO S BONAFE, JUAN JOSE

"Quality of Service concepts for IEEE 802.15.4 based Wireless Sensor Networks"
GARCIA SPIRITTO, JOSE JAVIER
Lecture: 17-07-2007 Qualification: 10
Advisor: FALCK, THOMAS
Advisor: AGUILAR IGARTUA, MONICA

"Study of the radio wave propagation in a railway environment"
WOO, CHUN
Lecture: 17-07-2007 Qualification: 9
Advisor: JOFRE ROCA, LUIS

"Power domain control circuits for CMOS leakage reduction and fault tolerance"
JENNI, AYMEN
Lecture: 13-07-2007 Qualification: 8.5
Advisor: MADRENAS BOADAS, JORDI

"Screen and Camera Firmware development for graphical processing in automotive application"
MIRABEL, GUILLAUME MICHEL PABLO
Lecture: 12-07-2007 Qualification: 9
Advisor: DAURA LUNA, FRANCESC
Advisor: MADRENAS BOADAS, JORDI

"Design of Compensation Circuits and Techniques for Temperature and Process Variations in a Wibree RF Front-end"
SROKA CHALOT, MILOSZ GABRIEL
Lecture: 05-07-2007 Qualification: 10
Advisor: GONZALEZ JIMENEZ, JOSE LUIS

"Channel Modelling and SINR Evaluation in MBMS for LTE"
RIBOT COLÁS, SÜLÍVIA
Lecture: 26-06-2007 Qualification: 9
Advisor: RODRIGUEZ FONOLLOSA, JAVIER

"Communication and Signalling Systems in Oran’s Tram in Algeria"
RAOUL, VIRGINIE
Lecture: 22-06-2007 Qualification: 9.5
Advisor: MOLINERO HERNANDEZ, JAVIER
Advisor: SALA ALVAREZ, JOSE

"Integration and Image Reconstruction Algorithms for an Aperture Synthesis Radiometer"
FRASCELLA, FABIO
Lecture: 07-06-2007 Qualification: 10
Advisor: RAMOS PEREZ, ISAAC
Advisor: CAMPS CARMONA, ADRIANO JOSE

"Integration and Calibration Algorithms for an Aperture Synthesis Radiometer"
CAMPIGOTTO, PAOLO
Lecture: 07-06-2007 Qualification: 10
Advisor: RAMOS PEREZ, ISAAC
Advisor: CAMPS CARMONA, ADRIANO JOSE

"Adaptive Antenna Array for Metop Satellite Signal Reception"
KTOKRA, DAVID
Lecture: 16-05-2007 Qualification: 9
Advisor: SIERRA PEREZ, MANUEL
Advisor: JOFRE ROCA, LUIS

"Studying the reference of GPS satellite navigation system"
CHINCHILLA LLÀCER, DAVID
Lecture: 14-05-2007 Qualification: 10
Advisor: MARECHAL, JEAN
Advisor: HERNANDEZ PAJARES, MANUEL

"Design of a Wireless Broadband Network for the L9 of the Metro of Barcelona"
LAMSAKI MEDINA, IRENE CRISTINA
Lecture: 09-05-2007 Qualification: 10
Advisor: SOLA, RICARD
Advisor: ALONSO ZARATE, LUIS GONZAGA

"Módulo de análisis estadístico para Call Centers"
PÉREZ REQUENA, MARIO JOSÉ
Lecture: 24-04-2007 Qualification: 10
Advisor: BECH, SERGI
Advisor: BANCHS MARTINEZ, RAFAEL ENRIQUE

"Development of a resistive, galvanically, separated phase-current sensor for a current range of +/- 500 A"
GÖTZ, DANIEL MICHAEL
Lecture: 21-03-2007 Qualification: 9.5
Advisor: REICH, ALEXANDER
Advisor: BRAGOS BARDIA, RAMON

"Automatic Statistical Machine Translation among English, Chinese and Spanish"
DE LEMOS RAMOS, FRANBEL WISTHON
Lecture: 20-03-2007 Qualification: 9.5
Advisor: BANCHS MARTINEZ, RAFAEL ENRIQUE

"Design and implementation of a personalized Electronic Service Guide (ESG) System able to offer digital contents to portable devices"
GONZÁLEZ ARVELO, JOSÉ DAVÍD
Lecture: 16-03-2007 Qualification: 10
Advisor: PARADELLS ASPAS, JOSE

"Development of a VHDL Generator for Scheduled Data Flow Graphs"
STÜBING, HAGEN
Lecture: 09-03-2007 Qualification: 9.5
Advisor: MORENO AROSTEGUI, JUAN MANUEL

"Group delay measures at optical frequencies: standard modulation Phase Shift Method and new Bias-controlled amplitude-zero shift Method. Experimental Verification"
MITRE GUTÍERREZ, MARCO ANTONIO
Lecture: 16-02-2007 Qualification: 10
Advisor: SANTOS BLANCO, MARÍA CONCEPCIÓN

"Group Delay measures at Optical frequencies: standard modulation Phase Shift Method and new Bias-controlled Amplitude-zero shift Methods. Theoretical analysis and Numerical Simulations"
DE BERNARDO RODI, SANTA PATRICIA
Lecture: 16-02-2007 Qualification: 10
Advisor: SANTOS BLANCO, MARÍA CONCEPCIÓN

"Elaboration of Devices based on Novel Chemically Synthesized Organic Materials"
KRAUTZ, DANNY
Lecture: 29-01-2007 Qualification: 10
Advisor: CHEYLAN, STEPHANIE
Advisor: PUIGDOLLERS GONZALEZ, JOAQUIN

"Análisis y mejora del Canal de Información de Tráfico del Real Automóvil Club de Cataluña (RACC)"
AMADOZ GÓMEZ, RICARDO
Lecture: 09-01-2007 Qualification: 9.5
Advisor: CAÑELLAS MIRÓ, ROSA
Advisor: HESSELBACH SERRA, XAVIER
History of the Master Performance

Performance Detail

This is a detailed view for each academic year of the students performance. Note that these graphics do not include those students that were withdrawn from the Master due to poor performance in the CORE semester.

- 2015-2016
- 2013-2014
- 2012-2013
- 2011-2012
- 2010-2011
- 2009-2010
- 2005-2006
- 2004-2005

Curs 2015-2016

Curs 2013-2014

Curs 2012-2013

Curs 2011-2012

Curs 2010-2011

Curs 2009-2010

Curs 2005-2006

Curs 2004-2005
Scores by year — Master of Science in Information and Communication Technologies — UPC. Universitat Politècnica de Catalunya BarcelonaTech.

http://mastersuniversitaris.upc.edu/mint/history-of-the-master/scores-by-year?set_language=ca

àmiga modificació: Febrer 2009

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History of the Master Performance

Performance Detail

This is a detailed view for each academic year of the students performance. Note that these graphics do not include those students that were withdrawn from the Master due to poor performance in the CORE semester.

- 2015-2016
- 2013-2014
- 2012-2013
- 2011-2012
- 2010-2011
- 2009-2010
- 2005-2006
- 2004-2005
A Master whithin the Bologna Process

Official Telecommunication Engineering studies in Spain are currently based in two outcome levels, the engineering diploma level and the doctorate level. An important goal of the Bologna Process is to move higher education in Europe into a common framework based on three outcome levels: Bachelor, Master and Doctorate.

The Master offered by the ETSETB-UPC is a pioneering experience in Spain in the second level of the Bologna Process. The design of the Master followed the recommendations by the conference on Master-Degrees held in Helsinki in March 2003. It was also part of Master Pilot Programs recognised by the autonomous Catalan Government.

A Master whithin the Bologna Process

A solid and dynamic Master program
Double degree with other Universities
Links of interest
A solid and dynamic Master program — Master of Science in Information and Communication Technologies — UPC. Universitat Politècnica de Catalunya BarcelonaTech.

The program is directed to students who want to receive a highly qualified education in the development and applications of information and communication technologies. The Master incorporates some specializations that are reviewed every year based on current demands of the labour market following a dynamic and solid model of education. Currently students are able to choose, under the supervision of an academic advisor, among the following specializations: Communication Networks, Communications and Signal Processing and Electronic Systems.

The program is designed not only to provide students with a broad knowledge in the fields of study concerned, but also to train them in the necessary abilities for entrepreneurship in different areas of Telecommunication Engineering.

The following table shows the goal competences defined within the Master:

<table>
<thead>
<tr>
<th>Specific contents of the degree</th>
<th>Professional</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Capacity to identify, formulate and solve some specific ICT problems</td>
</tr>
<tr>
<td></td>
<td>Capacity to utilize techniques, abilities and engineering tools for a good practice in some specific ICT problems</td>
</tr>
<tr>
<td></td>
<td>Capacity to design systems, components or processes to meet some specifications of the economic, social, political, ethic, environment, health and sustainability specifications points of view</td>
</tr>
<tr>
<td></td>
<td>Capacity to develop and to manage projects</td>
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<tr>
<td></td>
<td>Awareness of engineering understanding as an economic and business activity</td>
</tr>
<tr>
<td></td>
<td>Competences in the area of management and organization of ICT activities</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Academic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity to apply mathematical, scientific and engineering knowledge</td>
</tr>
<tr>
<td>Capacity to design and perform experiments, as well as to analyze and to interpret results</td>
</tr>
<tr>
<td>Capacity to research and develop in new services and products in specific areas of ICT</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Intellectual</th>
</tr>
</thead>
<tbody>
<tr>
<td>Critical Thinking: Capacity to analyze and to rate different possibilities</td>
</tr>
<tr>
<td>Solving problems. Capacity to find optimal solutions to complex problems and projects</td>
</tr>
<tr>
<td>Creativity and Innovation: Capacity to create and innovate in new services and products</td>
</tr>
<tr>
<td>Ability to a fast adaptation to evolving technologies and markets in ICT</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Communication</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written: Ability to write projects and technical reports</td>
</tr>
<tr>
<td>Oral: Clarity and Fluency in the presentation of results, products or services either in specialized and non-specialized audiences</td>
</tr>
<tr>
<td>Knowledge of software tools used for generating reports and presentations</td>
</tr>
<tr>
<td>Knowledge of languages for enhanced professional competence</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Transversal Competences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interpersonal</td>
</tr>
<tr>
<td>Capacity to work in heterogeneous groups</td>
</tr>
<tr>
<td>Leadership capacity</td>
</tr>
<tr>
<td>Personal Manage</td>
</tr>
<tr>
<td>Long-life learning. Ability to keep studying autonomously for continuous education</td>
</tr>
<tr>
<td>Capacity to manage resources and projects</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professional ethics</td>
</tr>
<tr>
<td>Capacity to analyze the social dimension of technical activities</td>
</tr>
</tbody>
</table>

last modified: September 2009
A solid and dynamic Master program — Master of Science in Information and Communication Technologies — UPC. Universitat Politècnica de Catalunya BarcelonaTech.
Double degree with other Universities

The ETSETB-UPC is developing a joint program with other major Universities in Europe and will eventually be able to offer a double master's degree. The other universities currently participating in this program are the Royal Technological University (KTH) in Sweden, and the Politechnical Institute of Tomar in Portugal.
Links of interest

Description of the Bologna Process by the Council of Europe
Catalan Government European Higher Education Area Pilot Programs
Master of Science in Information and Communication Technologies

You are here: Home » News, open courses, workshops and talks

General Information
Presentation
Program contents
List of courses
Admission requirements
Application Form
Academic Performance Requirements
Master scholarships
Internship in companies. Information for students
Internships towards completing the master thesis
History of the Master
News, open courses, workshops and talks

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Master of Science in **Information and Communication Technologies**

You are here: Home » News, open courses, workshops and talks

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- List of courses
- Application Form
- Academic Performance Requirements
- Master scholarships
- Internship in companies. Information for students
- Internships towards completing the master thesis
- History of the Master

News, open courses, workshops and talks
Program contents — Master of Science in Information and Communication Technologies — UPC. Universitat Politècnica de Catalunya

Master of Science in **Information and Communication Technologies**

You are here: Home > Program contents > MINT

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### Program contents

#### Contents

In this section you can find a detailed description and explanation of MINT contents. In order to adapt to students’ fast changing requirements, there may be changes during the course. All these can be checked at the [news](http://mastersuniversitaris.upc.edu/mint/program-contents/mint-1/program-contents) section.

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### International Master Program Features and Contents

#### Final Degree Awarded

Master of Science in Information and Communication Technologies

#### Language of Instruction

English

---

### Structure of the Program

The whole program consists of a total of 120 ECTS credits distributed in four semesters of 30 credits each (three semesters of courses followed by a thesis project). BRIDGE courses start in September (i.e., are done only in Fall semesters).

For those students with a strong background in Electrical Engineering, the program might be completed in three semesters -90 ECTS credits (two semesters of courses and one semester for the Master thesis). Conversely to the BRIDGE courses, the CORE courses are repeated both in Fall semester and Spring semesters.

---

### BRIDGE courses

The BRIDGE entrance is intended for students having a bachelor degrees in related areas that do not provide the required background to follow the CORE courses.

---

### CORE admission

Direct admission to the CORE courses is for those students having a bachelor degree (four years) of Telecommunication Engineering (Electrical Engineering) studies. The CORE semester includes all compulsory courses of the master program.

---

### Specialization

The Master MINT program features two specialities: Communications and Signal Processing and Electronics Systems, and a academic track in Telematics Engineering (enllaç a la pestanya de TELEMATICS).

Each of the two specialities offer several optional courses of 5 ECTS credits, plus other courses from other areas of study. Students are requested to take at least 3 courses in one speciality; the remaining 2 courses can be chosen from the same area, another area in the program, or among the various courses offered by the different departments of the ETSETB.

---

### Master Thesis

The Master thesis entails the full workload of a semester. The Master thesis must be written in English. The rest of the procedures will closely follow those required for the evaluation of final projects at ETSETB. Students must defend their thesis in an oral exam by a committee that will evaluate each candidate. Ordinarily students develop the Master Thesis in the same speciality they chosen. Students can also develop the Master Thesis in one of the available company internship offered by TELECOM BCN.

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_last modified : April 2012_
Program contents — Master of Science in Information and Communication Technologies — UPC. Universitat Politècnica de Catalunya

Master of Science in **Information and Communication Technologies**

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**Program contents**

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**International Master Program Features and Contents**

**Final Degree Awarded**

Master of Science in Information and Communication Technologies

**Language of Instruction**

English

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last modified : April 2012
Program contents — Master of Science in Information and Communication Technologies — UPC. Universitat Politècnica de Catalunya BarcelonaTech.

Master of Science in **Information and Communication Technologies**

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**Program contents**

**Contents**

In this section you can find a detailed description and explanation of Telematics contents.

**International Master Program Features and Contents**

Final Degree Awarded
Master of Science in Information and Communication Technologies, special track in Telematics Engineering

Language of Instruction
English

**Structure of the Program**

The whole program consists of a total of 120 ECTS credits distributed in four semesters. 60 ECTS credits are devoted to the CORE courses, while 30 are devoted to optional courses and the remaining 30 credits are due to the thesis project.

**Master Thesis**

The Master thesis entails the full workload of a semester. The main objective of a Master thesis is to fulfill a research project in the telematics area.

The Master thesis must be written in English. Students must defend their thesis in an oral exam by a committee that will evaluate each candidate. The committee is composed by three doctors from the Department of Telematics Engineering.

**Useful links**

http://www.entel.upc.edu/?set_language=en

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Program contents — Master of Science in Information and Communication Technologies — UPC. Universitat Politècnica de Catalunya BarcelonaTech.

Master of Science in **Information and Communication Technologies**

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**Program contents**

**Contents**

In this section you can find a detailed description and explanation of Telematics contents.

**International Master Program Features and Contents**

**Final Degree Awarded**

Master of Science in Information and Communication Technologies, special track in Telematics Engineering

**Language of Instruction**

English

**Structure of the Program**

The whole program consists of a total of 120 ECTS credits distributed in four semesters. 60 ECTS credits are devoted to the CORE courses, while 30 are devoted to optional courses and the remaining 30 credits are due to the thesis project.

**Master Thesis**

The Master thesis entails the full workload of a semester. The main objective of a Master thesis is to fulfill a research project in the telematics area.

The Master thesis must be written in English. Students must defend their thesis in an oral exam by a committee that will evaluate each candidate. The committee is composed by three doctors from the Department of Telematics Engineering.

**Useful links**

http://www.entel.upc.edu/?set_language=en

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List of Courses MINT

Bridge courses

Core courses

Optional courses

Electronic Systems

Communications Networks

Communications and Signal Processing

Other Specific Optional Courses

- New Generation Internet (11525 - NGI)
- GPS and Galileo Data Processing: From the Fundamentals to light accuracy navigation (11663 - GPS)
- Technology Assets Management (32120 - TAM)
- Graph and Routing Dynamics: network models and algorithms (230310 - GRD)

Master Thesis

30 ECTS credits (represents the full workload of a semester)

The Master Thesis report has to be written in English

The procedures will closely follow those required for evaluating the final projects at ETSETB
List of courses Mint — Master of Science in Information and Communication Technologies — UPC. Universitat Politècnica de Catalunya BarcelonaTech.

http://mastersuniversitaris.upc.edu/mint/list-of-courses/list-of-courses-mint?set_language=en

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# List of Courses Telematics

## 1st Semester (Fall)

<table>
<thead>
<tr>
<th>Subject</th>
<th>Code</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lectures on Information Technology and Society (LITS)</td>
<td>11689</td>
<td>2.5</td>
</tr>
<tr>
<td>Topics in New Technologies and Business (TNTB)</td>
<td>11572</td>
<td>2.5</td>
</tr>
<tr>
<td>Probability and Stochastic Processes (PIPE)</td>
<td>11467</td>
<td>5</td>
</tr>
<tr>
<td>E-Commerce (CE)</td>
<td>11555</td>
<td>5</td>
</tr>
<tr>
<td>Advanced Programming and Distributed Applications (APDA)</td>
<td>11645</td>
<td>5</td>
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<tr>
<td>Network Architectures (NA)</td>
<td>11642</td>
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<tr>
<td>Communication Theory (CT)</td>
<td>11580</td>
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## 2nd Semester (Spring)

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<thead>
<tr>
<th>Subject</th>
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<tr>
<td>Communications Systems, Networks and Services (CSNS)</td>
<td>11684</td>
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<tr>
<td>Management and Innovation in Telecommunication Companies (MITC)</td>
<td>32036</td>
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<tr>
<td>Cellular Access Networks (XAC)</td>
<td>11569</td>
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<td>Cryptography and Network Security (CRIP)</td>
<td>11557</td>
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<td>Network Intelligence (IX)</td>
<td>11561</td>
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<tr>
<td>Protocols in Telecommunications Networks (PRXT)</td>
<td>11658</td>
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## Optional Courses

<table>
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<th>Subject</th>
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<tr>
<td>Networking Fundamentals, Applications and Services (NFAS)</td>
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<tr>
<td>Broadband Networks and Services (XSBA)</td>
<td>11570</td>
<td>5</td>
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<tr>
<td>3G Mobile Systems. Evolution(CM3G)</td>
<td>11529</td>
<td>5</td>
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<tr>
<td>Service Management in New Generation Networks (GSXNG)</td>
<td>13181</td>
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<tr>
<td>Development of Web Applications (WEB)</td>
<td>11662</td>
<td>5</td>
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<tr>
<td>Advanced Mechanisms on Networks Security (MAX)</td>
<td>32040</td>
<td>5</td>
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<tr>
<td>Telecommunications Networks Planning (PLXT)</td>
<td>11661</td>
<td>5</td>
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<tr>
<td>Coded Modulation and Channel Modulation (MCCC)</td>
<td>11556</td>
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<tr>
<td>Evaluation of Packet- Switched Networks (AXC)</td>
<td>32148</td>
<td>2.5</td>
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<tr>
<td>Pricing Communications Networks (PEPXC)</td>
<td>32032</td>
<td>2.5</td>
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<td>Multi-Hopnets Applications to sensor Networks (XM)</td>
<td>32149</td>
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<td>Research Seminar (RSEM)</td>
<td>13182</td>
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<tr>
<td>Routing and Resource Management with Quality of Service in Broadband Networks (EGR)</td>
<td>32033</td>
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last modified: July 2012

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http://mastersuniversitaris.upc.edu/mint/list-of-courses/list-of-courses-telematics?set_language=en[02/02/2017 10:33:58]
Requirements for double degree students

Same academic requirements for the double degree, have been established in agreement with our partner universities.

All students are required to prove a good level of English (TOEFL: minimum 573pts paper-based, 230pts computer-based; 88pts internet-based or similar). If undergraduate studies have been held in English, it is sufficient to provide certification by the degree-awarding institution.

The following documents have to be sent thorough the Application Form:

- Application form with the approval of your home institution.
- Official transcript of records from each institution attended at the university level.
- TOEFL score report or equivalent language certification.
- Curriculum Vitae.
- 2 Letters of reference.

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http://mastersuniversitaris.upc.edu/mint/admission-requirements/requirements-for-double-degree-students?set_language=en[02/02/2017 10:34:12]
Requirements for ETSETB former students — Master of Science in Information and Communication Technologies — UPC. Universitat Politècnica de Catalunya BarcelonaTech.

Master of Science in Information and Communication Technologies

Requirements for ETSETB former students

Once they are graduated, ETSETB former students are required to prove a good level of English (TOEFL: minimum 573pts paper-based, 230pts computer-based; 88pts internet-based or Certificate in Advanced English, CAE).

Under this conditions they will be directly admitted by just fulfilling the application for as regular students. They will have to course 60 ECTS.
Academic background — Master of Science in Information and Communication Technologies — UPC. Universitat Politècnica de Catalunya BarcelonaTech.

Master of Science in **Information and Communication Technologies**

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You are here: Home » Admission requirements » Academic background

### Academic background

The applicants must demonstrate skills in:

**Mathematics**

**Linear Systems**
Time continuous and time discrete signals and systems, e.g. corresponding to the following text: OPPENHEIM, A.V. and SHAFER, R.W. *Discrete-time signal processing*. 2nd ed. Prentice Hall, 1999.

**Electronic Design**

**Network Communications**

**Software engineering including programming (C or equivalent)**

**Fundamental classical electromagnetics in simple media**

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last modified: September 2009

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Besides of the academic background, students are required to prove a good level of English (for example, for TOEFL: minimum 573 pts paper-based, 230 pts computer-based; 88 pts internet-based or similar). If undergraduate studies have been held in English, it is sufficient to provide certification by the degree-awarding institution.

The following documents have to be submitted through the Application Form:

- Certified copies of your BSc, Engineering degree or MSc diploma.
- Official transcript of records from each institution attended at the university level.
- TOEFL (or equivalent) score report.
- Curriculum Vitae.
- 2 Letters of reference.
- Statement of purpose and a description of the applicant's professional and academic background.
- Other documents that would clarify the qualifications of the applicant, e.g. GRE test (recommended but not mandatory) and a short summary of the BSc thesis, Engineering degree final project or MSc thesis realized by the applicant.
Student Origins — Master of Science in Information and Communication Technologies — UPC. Universitat Politècnica de Catalunya-BarcelonaTech.

http://mastersuniversitaris.upc.edu/mint/history-of-the-master/student-origins/?set_language=es
Student Origins — Master of Science in Information and Communication Technologies — UPC Universitat Politècnica de Catalunya BarcelonaTech.

http://mastersuniversitaris.upc.edu/mint/history-of-the-master/student-origins?set_language=es

Última modificació: Febrer 2009

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History of the Master Thesis

Complete List of Thesis References

This list gives the references of all the Master Thesis that have been done, completed and presented, and those that are still under development. The list is ordered by the student ingress year.

2015-2016
- "ENERGY-AUTONOMOUS WAKE-UP RECEIVER USING SOLAR PANEL AND VISIBLE LIGHT COMMUNICATION"
  SARIDOL RAMOS, JOYCE
  Lecture: 31-05-2016 Qualification: 9
  Advisor: DEMIRKOL, ILKER SEYFETTIN
- "Development of tools for the use of Android cell-phones to recognize user activities"
  ABDOLLAH, NOOSHIN
  Lecture: 18-12-2015 Qualification: 9
  Advisor: GORRICHO MORENO, JUAN LUIS
- "Design and implementation of a contributive photo-sharing mobile application for iOS"
  ARREAZA LEÓN, ROBERTO JOSÉ
  Lecture: 30-10-2015 Qualification: 10
  Advisor: PEGUEROLES VALLES, JOSEP RAFAEL

Academic Year 2014-2015
- "Creation and Feasibility Analysis of a Telecommunications Company in Brisbane - Australia"
  ROJAS GARCIA, JORDAN
  Lecture: 09-09-2015 Qualification: 9.5
  Advisor: LOSANTOS VIÑOLAS, PEDRO
- "Study of scalability of passive and active solutions for time-based ranging in IEEE 802.11 networks"
  MALPARTIDA TABLADO, MARTA
  Lecture: 08-09-2015 Qualification: 10
  Advisor: MARTÍN ESCALONA, ISRAEL
- "Improving Efficiency of Administration of Storage Environments via Scripting Techniques and Code Reuse"
  MORENO VILLAMIZAR, JOAQUÍN ABELARDO
  Advisor: RODRÍGUEZ GARDUÑO, JOSUÉ
- "ALL-FIBER MACH-ZEHNDER INTERFEROMETER FOR DWDM-PON BIDIRECTIONAL MULTIPLEXING"
  KURYSHEVA, ANNA
  Lecture: 15-07-2015 Qualification: 9
  Advisor: PRAT GOMA, JOSEP JOAN
- "Advanced Methods for the Measurement of Chromatic Dispersion at Optical Frequencies"
  SARABIA DÍAZ, EUGENIA TERESA
  Lecture: 16-02-2015 Qualification: 8
  Advisor: SANTOS BLANCO, MARÍA CONCEPCIÓN

Academic Year 2013-2014
- "Network Virtualization strategy based on Paths Algebra to implement the concept of Infrastructure as a Service"
  GUTIERREZ ANATO, ALEJANDRO ANTONIO
  Lecture: 10-12-2014 Qualification: 9.5
  Advisor: DE ALMEIDA AMAZONAS, JOSÉ ROBERTO
  Advisor: HESSELBACH SERRA, XAVIER
"Performance analysis of prioritization in LTE networks with the Vienna LTE system level simulator"
ASSAF, SIMON
Lecture: 18-07-2014 Qualification: 7
Advisor: FERRUS FERRE, RAMON ANTONIO

"Social Review-based Recommender Systems from Theory to Practice"
CAPDEVILA PUJOL, JOAN
Lecture: 04-07-2014 Qualification: 10
Advisor: ARIAS VICENTE, MARTA
Advisor: ARRATIA QUESADA, ARGIMIRO ALEJANDRO
Advisor: SOLE PARETA, JOSEP

"Performance evaluation of HSPA networks through drive testing tools: Case study in UPC campus Nord"
AL NUAIMAT, FADEL MUTASEM FATHI
Lecture: 18-06-2014 Qualification: 10
Advisor: FERRUS FERRE, RAMON ANTONIO

"Performance evaluation of HSPA network through drive testing tools: Practical exercises for the mobile communication lab"
TABANNAJ, YAZAN
Lecture: 18-06-2014 Qualification: 10
Advisor: FERRUS FERRE, RAMON ANTONIO

"A GRASP-based algorithm for the optimised DIF allocation in the RINA network architecture"
KESHAVARZ, PEGAH
Lecture: 13-12-2013 Qualification: 9
Advisor: CAREGLIO, DAVIDE
Advisor: PERELLO MUNTAN, JORDI

"SNAVA: A Generic Threshold-Based-SNN Emulation Solution"
TIRUVENDIPURA ACHYUTHA RAGHAVAN, ATHUL SRIPAD
Lecture: 25-09-2013 Qualification: 9.5
Advisor: SANCHEZ RIVERA, GIOVANNY
Advisor: MADRENAS BOADAS, JORDI

Academic Year 2012-2013

"Wireless Sensor Networks on-board aircrafts: design and implementation of medium access control protocol"
SÁNCHEZ-CAMACHO YEBRA, CRISTIAN
Lecture: 16-12-2013 Qualification: 9
Advisor: HAFID FAZLI, ERIZA
Advisor: PARADELLS ASPAS, JOSE

"How to combine in one view the global cost and duration of a trip"
USKOKOVIC, MARKO
Lecture: 22-05-2013 Qualification: 9.5
Advisor: DUCHENE, FLORENCE AGNES SYLVIE
Advisor: SANTOS BOADA, GERMAN

"A High Speed Solution for Aircraft Ground Communications"
RODRÍGUEZ AGUILERA, GRACE MARY
Lecture: 16-05-2013 Qualification: 9.5
Advisor: DURSTEWITZ, MARKUS
Advisor: CASADEMONT SERRA, JORDI

"Performance Evaluation of a Game Theoretical routing protocol over Mobile Ad Hoc Networks"
KHALILI, HAMZEH
Lecture: 17-04-2013 Qualification: 8
Advisor: AGUILAR IGARTUA, MONICA

"Simulation-based characterized environment for THz band Graphene antennas targeting WNoC"
SINGH, RANJEET
Lecture: 13-02-2013 Qualification: 8
Advisor: CABELLOS APARICIO, ALBERTO
Advisor: ALARCON COT, EDUARDO JOSE

"Automatic DC Offset Cancellation in Built-in Differential Temperature Sensors"
MASHAYEKHI, MOHAMMAD
Lecture: 19-12-2012 Qualification: 6.5
Advisor: ALTET SANAHUJES, JOSEP

Academic Year 2011-2012

"2D Liquid Lens Based on EWOD"
AHMADI ZEIDABADI, MAZIAR
Lecture: 10-09-2012 Qualification: 10
Advisor: BERMEO BROTO, ALEXANDRA

"Twitter weighting system"
POLLNER PEREL, GABRIEL ALEJANDRO
Lecture: 30-07-2012 Qualification: 9
Advisor: SALA ROIG, CRISTINA
Advisor: GORRITO MORENO, JUAN LUIS

"Comparison in the two clusters merging scenario between the IEEE 802.11p MAC protocol and STDMA"
CEREZO OLIVA, JOSE MARIA
Lecture: 24-07-2012 Qualification: 9
Advisor: ALONSO GOMEZ, ARRATE
Advisor: PARDAS FELIU, MONTSERRAT

"Analysis of the efficiency of protocol DOCSIS 3.0 in HFC networks"
TAN, HUI
Lecture: 03-07-2012 Qualification: 8
Academic Year 2010-2011

* "100 GHz MST Retina for Real Time Near Field Imaging"
  GARG , VAIBHAV
  Lecture:26-06-2012 Qualification:9
  Advisor:ALONSO DEL PINO, MARIA
  Advisor:JOFRE ROCA, LUIS

* "Combining two formal methods of the static analyses"
  HONORAT POBLETTE, JORGE LUIS
  Lecture:19-06-2012 Qualification:9
  Advisor:THRIDUX, XAVIER
  Advisor:SOLE PARETA, JOSEP

* "YouTube Traffic Monitoring and Analysis"
  DIMOPOULOS , GEORGIOS
  Lecture:17-05-2012 Qualification:10
  Advisor:SANJUÀS CUXART, JOSEP
  Advisor:BARLET ROS, PERE

* "Modification of a FPGA-based GPS receiver for reflectometry applications (GNSS-R)"
  RIBOT SANFÉLIX, MIGUEL ÁNGEL
  Lecture:28-10-2011 Qualification:10
  Advisor:CAMPS CARMONA, ADRIANO JOSE

* "Contribution to the Study, Design and Analysis of a System to Provide QoS for Virtual Networking"
  MADRILES SORIANO, JOSEP ORIOL
  Lecture:21-10-2011 Qualification:9.5
  Advisor:HESSELBACH SERRA, XAVIER

* "Cooperative signal amplification for molecular communication in nanonetworks."
  ABADAL CAVALLÉ, SERGI
  Lecture:19-09-2011 Qualification:10
  Advisor:LLATSER MARTÍ, IGNACIO
  Advisor:CABELLOS APARICIO, ALBERTO

Academic Year 2008-2009

* "Performance of Small Grid-connected Photovoltaic Systems in Ljubljana and Barcelona"
  MORENZA CINOS, MARC
  Lecture:30-04-2009 Qualification:8.5
  Advisor:SIESTRE BERGES, SANTIAGO

Academic Year 2007-2008

* "Remote control and emulation of DLD Board through USB port"
  AGNESE , DANIELE
  Lecture:06-06-2008 Qualification:9.5
  Advisor:CHAVEZ DOMINGUEZ, JUAN ANTONIO

* "Implementation of analog-digital converter array for aperture synthesis radiometer"
  DONADIO , MARCO
  Lecture:17-01-2008 Qualification:10
  Advisor:RAMOS PEREZ, ISAAC
  Advisor:CAMPS CARMONA, ADRIANO JOSE

* "Analysis and comparison of present P2P file-sharing systems"
  DERMATAS , KONSTANTINOS
  Lecture:03-10-2007 Qualification:8
  Advisor:GORRISO MORENO, JUAN LUIS

* "Security in aeronautical mobile Networks"
  FABRA CERVELLERA, FRANCISCO JOSÉ
  Lecture:27-09-2007 Qualification:10
  Advisor:JAHN, AXEL
  Advisor:CRUZ LLOPIS, LUIS JAVIER DE LA

Academic Year 2006-2007

* "An Optical Beamforming Network for a Wide Band Phased Array Antenna"
  STOLTIDOU , CHRISAVGI
  Lecture:25-07-2007 Qualification:10
  Advisor:JOFRE ROCA, LUIS

* "Integration of Amadeus middleware to the Rail Distribution"
  KAĪBI , CHIHÉB
  Lecture:20-07-2007 Qualification:9
  Advisor:SUAY RINCON, JAVIER
  Advisor:GORRISO MORENO, JUAN LUIS

* "A Mobility aware DVB-RCS Resource Allocation Strategy"
CARIDE AGUADO, PEDRO PABLO  
Advisor: PLANIELLS, MILENA  
Advisor: OLMO BONAFE, JUAN JOSE  
"Quality of Service concepts for IEEE 802.15.4 based Wireless Sensor Networks"  
GARCIA SPIRITO, JOSE JAVIER  
Lecture: 17-07-2007 Qualification: 10  
Advisor: FALCK, THOMAS  
Advisor: AGUIAR IGARTUA, MONICA  
"Study of the radio wave propagation in a railway environment"  
WOO, CHUN  
Lecture: 17-07-2007 Qualification: 9  
Advisor: JOFRE ROCA, LUIS  
"Power domain control circuits for CMOS leakage reduction and fault tolerance"  
JENNI, AYME  
Lecture: 13-07-2007 Qualification: 8.5  
Advisor: MADRENAS BOADAS, JORDI  
"Screen and Camera Firmware development for graphical processing in automotive application"  
MIRABEL, GUILLAUME MICHEL PABLO  
Lecture: 12-07-2007 Qualification: 9  
Advisor: DAURA LUNA, FRANCESC  
Advisor: MADRENAS BOADAS, JORDI  
"Design of Compensation Circuits and Techniques for Temperature and Process Variations in a Wibree RF Front-end"  
SROKA CHALOT, MILOSZ GABRIEL  
Lecture: 05-07-2007 Qualification: 10  
Advisor: GONZALEZ JIMENEZ, JOSE LUIS  
"Channel Modelling and SINR Evaluation in MBMS for LTE"  
RIBOT COLÀS, SILVIA  
Lecture: 26-06-2007 Qualification: 9  
Advisor: RODRIGUEZ FONOLLOSA, JAVIER  
"Communication and Signalling Systems in Oran’s Tram in Algeria"  
RAOUL, VIRGINIE  
Lecture: 22-06-2007 Qualification: 9.5  
Advisor: MOLINERO HERNANDEZ, JAVIER  
Advisor: SALA ALVAREZ, JOSE  
"Integration and Image Reconstruction Algorithms for an Aperture Synthesis Radiometer"  
FRASCIELLA, FABIO  
Lecture: 07-06-2007 Qualification: 10  
Advisor: RAMOS PEREZ, ISAAC  
Advisor: CAMP CARMONA, ADRIANO JOSE  
"Integration and Calibration Algorithms for an Aperture Synthesis Radiometer"  
CAMPIGOTTO, PAOLO  
Lecture: 07-06-2007 Qualification: 10  
Advisor: RAMOS PEREZ, ISAAC  
Advisor: CAMP CARMONA, ADRIANO JOSE  
"Adaptive Antenna Array for Metop Satellite Signal Reception"  
KTOPRA, DAVID  
Lecture: 16-05-2007 Qualification: 9  
Advisor: SIERRA PEREZ, MANUEL  
Advisor: JOFRE ROCA, LUIS  
"Studying the reference of GPS satellite navigation system"  
CHINCHILLA LLÀCER, DAVID  
Lecture: 14-05-2007 Qualification: 10  
Advisor: MARECHAL, JEAN  
Advisor: HERNANDEZ PAJARES, MANUEL  
"Design of a Wireless Broadband Network for the L9 of the Metro of Barcelona"  
LAMSISI MEDINA, IRENE CRISTINA  
Lecture: 09-05-2007 Qualification: 10  
Advisor: SOLA, RICARD  
Advisor: ALONSO ZARATE, LUIS GONZAGA  
"Módulo de análisis estadístico para Call Centers"  
PÉREZ REQUENA, MARIO JOSÉ  
Lecture: 24-04-2007 Qualification: 10  
Advisor: BECH, SERGI  
Advisor: BANCHS MARTINEZ, RAFAEL ENRIQUE  
"Development of a resistive, galvanically, separated phase-current sensor for a current range of +/- 500 A"  
GÖTZ, DANIEL MICHAEL  
Lecture: 21-03-2007 Qualification: 9.5  
Advisor: REICH, ALEXANDER  
Advisor: BRAGOS BARDIA, RAMON  
"Automatic Statistical Machine Translation among English, Chinese and Spanish"  
DE LEMOS RAMOS, FRANBEL WISTHON  
Lecture: 20-03-2007 Qualification: 9.5  
Advisor: BANCHS MARTINEZ, RAFAEL ENRIQUE  
"Design and implementation of a personalized Electronic Service Guide (ESG) System able to offer digital contents to portable devices"  
GONZÁLEZ ARVELO, JOSÉ DAVID  
Lecture: 16-03-2007 Qualification: 10
Advisor: PARADELLS ASPAS, JOSE
"Development of a VHDL Generator for Scheduled Data Flow Graphs"
STÜBING , HAGEN
Lecture: 09-03-2007 Qualification: 9.5
Advisor: MORENO AROSTEGUI, JUAN MANUEL

Advisor: MORENO AROSTEGUI, JUAN MANUEL
"Group delay measures at optical frequencies : standard modulation Phase Shift Method and new Bias-controlled amplitude-zero Shift Method. Experimental Verification"
MITRE GUTIÉRREZ, MARCO ANTONIO
Lecture: 16-02-2007 Qualification: 10
Advisor: SANTOS BLANCO, MARÍA CONCEPCIÓN

Advisor: SANTOS BLANCO, MARÍA CONCEPCIÓN
"Group Delay measures at Optical frequencies: standard modulation Phasy Shift Method and new Bics-controlled Amplitude-zero shift Methods. Theoretical analysis and Numerical Simulations"
DE BERNARDO RODI, SANTA PATRICIA
Lecture: 16-02-2007 Qualification: 10
Advisor: SANTOS BLANCO, MARÍA CONCEPCIÓN

Advisor: SANTOS BLANCO, MARÍA CONCEPCIÓN
"Elaboration of Devices based on Novel Chemically Synthesized Organic Materials"
KRAUTZ , DANNY
Lecture: 29-01-2007 Qualification: 10
Advisor: CHEYLAN, STEPHANIE
Advisor: PUIGDOLLERS GONZALEZ, JOAQUIN

Advisor: PUIGDOLLERS GONZALEZ, JOAQUIN
"Análisis y mejora del Canal de Información de Tráfico del Real Automóvil Club de Cataluña (RACC)"
AMADOZ GÓMEZ, RICARDO
Lecture: 09-01-2007 Qualification: 9.5
Advisor: CANELLAS MIRÓ, ROSA
Advisor: HESSELBACH SERRA, XAVIER
History of the Master Performance

Performance Detail

This is a detailed view for each academic year of the students performance. Note that these graphics do not include those students that were withdrawn from the Master due to poor performance in the CORE semester.

- 2015-2016
- 2013-2014
- 2012-2013
- 2011-2012
- 2010-2011
- 2009-2010
- 2005-2006
- 2004-2005

Curs 2015-2016

Curs 2013-2014

Curs 2012-2013

Curs 2011-2012

Curs 2010-2011

Curs 2009-2010

Curs 2005-2006

Curs 2004-2005