MET Curriculum

Master MET offers 3 types of academic paths:

- **Academic path without specialization**: If you want maximum flexibility in the elective subjects, choose this option. There are 45 compulsory ECTS credits, 15 ECTS credits from one intensification and you will have 30 more ECTS to choose among the different elective options. The final thesis has 30 ECTS.

- **Academic path with specialization**: If you want to be a specialist in one of the multiple areas of the electrical engineering, choose this option. There are 45 compulsory ECTS credits, 30 ECTS credits from the intensification that you prefer, and you will still have 15 more ECTS to choose among the different elective options. The final thesis has 30 ECTS.

- **Academic path with double-degree (limited places)**: If you prefer maximum internationalization and another master degree, choose this option. You will have to enrol 45 compulsory ECTS credits, 15 ECTS credits from one intensification and 60 or 90 ECTS credits (that include the 30 ECTS of the thesis) at the foreign university.

Subjects are structured in different blocks:

- **Bridge subjects**: To be taken by students whose academic profile is not a general bachelor of telecommunications engineering. The Academic Commission of Masters assigns these courses to new students. These subjects do not extend the master, they use elective credits.

- **Core subjects**: Compulsory subjects.

- **Intensification subjects (Academic path without specialization)**: The student must choose one intensification (Communications, Electronics, Multimedia or Networks) and take 3 subjects from a choice of 6. These subjects can be enrolled in different semesters, but the student must have passed 3 of the same intensification before finishing the master.

- **Specialization subjects (Academic path with specialization)**: The student will take 4 specialization compulsory subjects and 2 specialization elective subjects.

- **Elective credits**: These credits can be divided between:
  - **Elective subjects**.
  - Introduction to research subjects.
  - **Seminars**.
  - **Internships in companies or laboratories (15 ECTS)**.
  - Recognized for professional experience (10 ECTS maximum).

- **Master's Thesis**.
NO SPECIALIZATION - MAXIMUM FLEXIBILITY
Choose 15 ECTS from one intensification and 30 elective ECTS
Double-Degree students must follow this path

INTENSIFICATIONS
- Communications
- 15 ECTS
- Electronics
- 15 ECTS
- Multimedia
- 15 ECTS
- Networks
- 15 ECTS

ELECTIVE CREDITS
- 30 ECTS

WITH SPECIALIZATION
Each specialization has 30 ECTS:
- 4 compulsory subjects + 2 specialization elective subjects

SPECIALIZATIONS
- Antennas, microwaves and photonics for communications and Earth observation
- 30 ECTS
- Electronics
- 30 ECTS
- Fiber-Optic communications
- 30 ECTS
- Multimedia
- 30 ECTS
- Networks and Internet technologies
- 30 ECTS
- Wireless communications
- 30 ECTS

ELECTIVE CREDITS
- 15 ECTS

BRIDGE
- MAX: 30 ECTS
- ASSIGNED BY MASTER ACADEMIC COMISSION

CORE
- COMPULSORY
- 45 ECTS

THESIS
- 30 ECTS
Enrolment guide:

First semester (30 ECTS). Two options:

a. 6 core subjects: Any core subject except MTP. MTP has to be enrolled as late as possible.

b. 5 core subjects + 1 intensification subject: Any core subject except MTP. Any intensification subject except IT and having into account these restrictions:
   - AFOC requires to simultaneously enrol TSYS.
   - AMC requires to simultaneously enrol TSYS.
   - QSN requires to simultaneously enrol CN and OVNET.
   - WAN requires to simultaneously enrol CN.

Second semester (30 ECTS): The rest of core subjects except MTP + intensification subjects + elective subjects. Without restrictions.

Third semester (30 ECTS): MTP + intensification subjects + elective subjects. Without restrictions.


In case that bridge subjects are required, these will be enrolled in first and second semesters depending on the subject availability and the academic profile of each applicant.

Students can make mobility stays of half or full year to choose among a great number of foreign universities. Usually, the period is the third semester and/or the master’s thesis during the fourth semester.

In case that the student is taking a double degree or a mobility stay in the second year, MTP and the 3 intensification subjects must be passed during first and second semesters.

Internships in companies:

It is also possible to perform internships in companies. In the master’s framework, these internships can be curricular equivalent to 15 elective ECTS, curricular to do the master’s thesis or extracurricular (do not recognize credits).

The ETSETB has a long collaboration tradition with companies. In this link you may see the companies that have offered internships during the last years.