



## International Master Regulation (EIT track)

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- *Mention Informatique:*
  - *Digital Security*
  
- *Mention Réseau et Télécommunication:*
  - *Internet of Things*

# **ACADEMIC REGULATION**

**2020-2021**

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# 1 CURRICULUM:

## Foreword:

This academic regulation program is relevant for students following the Master EIT Digital Cyber Security (Mobile and Cloud Security) program or Master EIT Digital Autonomous Systems (Sensing, Communicating and Processing Big Data for Autonomous Systems) program. These programs offer a double degree. EURECOM is active in the exit period of the program.

- The regulation document concerns the 12 month period before graduation leading to obtain the following degrees: International Master EURECOM / IMT diploma with the Mention “ Informatique” specialization Digital Security
- or
- International Master EURECOM / IMT diploma with the Mention “Réseau et Telecommunication” specialization Internet of Things.

## 1.1 Curriculum structuration

The 12-month curriculum is structured in Teaching Units (TU).

Teaching units are composed of teaching modules (language courses, non-technical and technical courses), or correspond to projects and internship activities.

The 12-month period is composed of:

A **Fall** semester, starting in the beginning of October through the end of February,

A **Spring** semester, starting at the beginning of March through the end of June.

Fall semester offers an academic program (language courses, non-technical and technical courses, semester project).

Spring semester is dedicated to the internship.

The **internship** takes place over a six-month period.

The internship itself must last at least 22 weeks (between March and August), and be carried out in an R&D lab or in a company. The Program Committee must approve the internship subject.

The language of instruction is English.

Participation in all activities is mandatory.

The International Master program is under the supervision of a Program Committee.

A Teaching Committee meets at the end of each semester to examine students results, and gives recommendations to the Program Committee.

## 2 Obtaining the International Master Degree

The EURECOM / IMT Master degree Diploma is delivered to students who secure the required number of credits within the designated period based on the following terms.

### 2.1 Minimum number of credits required to graduate

A total of **61 ECTS credits for** Master EIT Digital Cyber Security and **60 ECTS credits for** Master EIT Digital Autonomous Systems are required to graduate. These credits are distributed as follows:

**Master EIT Digital Cyber Security**

Academic curriculum - Fall 1 + Spring	ECTS
Technical Teaching Units	18
Language courses Teaching Units (French or another foreign language for French speakers )	1
Non-technical Teaching Units	6
Project Teaching Units (100h)	6

March through mid-August	ECTS
Internship (22 weeks) Teaching Unit	30

**Master EIT Digital Autonomous Systems**

Academic curriculum - Fall 1 + Spring	ECTS
Technical Teaching Units	16
Language courses Teaching Units (French or another foreign language for French speakers)	1
Non-technical Teaching Units	6
Project Teaching Units (100h)	7

March through mid-August	ECTS
Internship (22 weeks) Teaching Unit	30

## 2.2 Minimum number of credits per semester

For each semester, students must validate at least the credits from the Teaching Units of the corresponding semester.

Additional credits obtained by students are mentioned in the appendix attached to the Diploma.

## 3 Exams

### 3.1 Terms

Teaching Units are assessed based on written and oral exams of the teaching modules scheduled at the end of each semester.

Their organization is under the responsibility of the professors.

Grades are sent to students within two weeks following the end of term.

Teaching Units of Projects are evaluated based on a written report and an oral presentation.

Students must attend the examination sessions of the courses in which they are registered. Absences to exams without any valid reason notified in advance to the Program Committee or without a medical certificate invalidate the corresponding credits without the possibility of re-taking the exams at the makeup examination session.

Undesirable behavior during exams will result in their nullification, and disciplinary sanctions might be taken by the Program Committee.

Each exam and project is graded on a 20-point scale.

A grade of at least 10 over 20 must be obtained for each project or course to receive the corresponding credit.

Projects are evaluated on the basis of a written report and an oral presentation, according to the following criteria:

- Study of problematics (coefficient 2)
- Results (coefficient 2)
- Project management (coefficient 1)
- Written report (coefficient 1)
- Oral exam (coefficient 1)

For their projects to be accepted, students must obtain a final grade of at least 10/20 (and a minimum grade of 8 for each of the criteria).

Internships are defended in front of a jury made up of the academic head and an external expert who may be the industrial supervisor.

Internships are assessed on five criteria: time management, conceptual work, results, report, and presentation. The five grades are combined and weighted as follows:

- Coefficient 1 for overall management, oral presentation and report,
- Coefficient 2 for conceptual work and results.

To obtain the 30 ECTS credits of the internship Teaching Unit, students must receive a final grade of at least 10 over 20 and no less than 8 over 20 in one of the five criteria.

## 3.2 Makeup examination session

For each course of teaching units and the project, a makeup session is possible.

If after the makeup exam, a student does not obtain a grade of at least 10 over 20, the corresponding ECTS credits are not validated.

The organization of makeup exams is under the responsibility of the course professor at periods defined by the global academic schedule.

Semester projects can be re-taken according to the terms set with each professor.

## 4 Failures

### 4.1 Failures related to the academic curriculum results

Students fail a teaching unit when they do not obtain the minimum number of credits required after the makeup examination session of the courses. Students shall acquire the missing ECTS credits when the corresponding courses are scheduled.

Students in that situation may choose to repeat the same course or take another course provided it belongs to the teaching unit they failed.

In all cases, credits that have been obtained during the teaching program are still valid.

Students Fail the project teaching unit if they do not secure the corresponding ECTS credits after makeup session.

### 4.2 Failure related to the internship

If Internship work is deemed insufficient, (students received a final grade less than 10 over 20 or less than 8 over 20 in one of the five criteria),

the Program Committee may request that it be completed according to the terms and conditions which will be decided during the meeting. A full repetition is also possible, in this case, the student repeat complete internship.

### 4.3 Failure related to Language Obligation

Students must validate an English language B2 level via an external certificate (TOIC, TOEFL, other).

### 4.4 Failure related to Double Degree obligations

In addition to clauses 4.1, 4.2, 4.3 obligations, students fail if they did not secure the curriculum requirements of their first year of studies in the entry University of the Master EIT partners

## 5 Conditions for exclusion

The Teaching Committee will examine these students' situations on a case by case basis and recommend to the Program Committee the students who should extend their studies partially a semester, a complete semester, one year.

If after a one year extension period the students still fail, they can be excluded from the teaching program.

The Program Committee can decide to exclude a student for the following reasons:

- Insufficient number of credits based on the rules laid out in section 4 "Failures"
- Disciplinary reasons: breach of responsibilities written in the Academic Charter.

Students who are excluded are not allowed to continue their studies. Upon request, a student can obtain a credit certificate showing the credits validated.

## 6 Validation of students results

A Teaching Committee meets at the end of each semester to examine student's results. It notifies the Program Committee about any possible failing cases as early as possible. The Program Committee validates all the results required to graduate.

Date: 04/09/2020

**Ulrich Finger**  
Director  
EURECOM

**Student's Name and signature**

**Master EIT Digital Cyber Security****Responsible: Marc DACIER**

<b>SEMESTER S1 FALL</b>			
Teaching Units	Hours	ECTS	Teachers
<b>TU Fundamentals</b>		<b>8</b>	
<b>MobiSec - Mobile Systems and smartphone Security</b>	42h	5	Yanick FRATANTONIO
<b>BigSec - Security and Privacy for big Data and Cloud</b>	21h	3	Melek ÖNEN
<b>TU Electives</b>		<b>10</b>	
MobServ - Mobile application and services	42h	5	Navid NIKAEIN
MobSys- Mobile communication systems	42h	5	Adlen KSENTINI
Clouds - Distributed Systems and Cloud Computing	42h	5	Raja APPUSWAMY
MALIS - Machine learning and intelligent systems	42 h	5	Maria ZULUAGA
<b>TU Fundamental in Innovation and Entrepreneurship</b>	<b>48h</b>	<b>6</b>	
<b>TU Semester project (I)</b>	<b>100 h</b>	<b>6</b>	
<b>TU Language French or other one for French speakers S1</b>	<b>22 h</b>	<b>1</b>	<b>Pascale CASTAING</b>
			External teachers
<b>S1 FALL total</b>		<b>31</b>	

<b>SEMESTER S2 SPRING</b>			
Teaching Units	Hours	ECTS	Teachers
<b>TU Master Thesis</b>		<b>30</b>	
<b>S2 SPRING total</b>		<b>30</b>	
<b>TOTAL MASTER</b>		<b>61</b>	

## Master EIT Digital Autonomous Systems

**Responsible: Raphaël TRONCY**

SEMESTER S1 FALL			
Teaching Units	Hours	ECTS	Teachers
<b>TU Fundamentals</b>		<b>8</b>	
<b>MobMod - Mobility Modeling</b>	21h	3	Jérôme HÄRRI
<b>Select one of the following courses:</b>			
MALIS - Machine learning and intelligent systems	42 h	5	Maria ZULUAGA
MobSys - Mobile communication systems	42h	5	Adlen KSENTINI
<b>TU Electives</b>		<b>8</b>	
Clouds - Distributed Systems and Cloud Computing	42h	5	Raja APPUSWAMY
CompArch - Computer architecture	42h	5	Renault PACALET
MobServ - Mobile application and services	42h	5	Navid NIKAEIN
Stand - Standardization activities	21h	3	Jérôme HÄRRI
STATS - Foundations of Statistical Inference	21h	3	Motonobu KANAGAWA
SysSec - System and Network Security	42h	5	Aurélien FRANCILLON
UMLEmb -UML for Embedded Systems	21h	3	Ludovic APVRILLE
WebInt - Interaction Design and Development of Modern Web Applications	21h	3	Raphaël TRONCY
<b>TU Fundamental in Innovation and Entrepreneurship</b>	<b>48h</b>	<b>6</b>	
<b>TU Semester project (I)</b>	<b>100 h</b>	<b>7</b>	
<b>TU Language French or other one for French speakers S1</b>	<b>22 h</b>	<b>1</b>	<b>Pascale CASTAING</b>
			External teachers
<b>S1 FALL total</b>		<b>30</b>	

SEMESTER S2 SPRING			
Teaching Units	Hours	ECTS	Teachers
<b>TU Master Thesis</b>		<b>30</b>	
<b>S2 SPRING total</b>		<b>30</b>	
<b>TOTAL MASTER</b>		<b>60</b>	