



TECHNISCHE  
UNIVERSITÄT  
DARMSTADT



UNIVERSITAT  
POLITÈCNICA  
DE VALÈNCIA

Cooperation agreement concerning the double degree (MSc)

between

Fachbereich Elektrotechnik und Informationstechnik

Technische Universität Darmstadt

(Germany)

and

Escuela Técnica Superior de Ingenieros de Telecomunicación

Universidad Politécnica de Valencia

(Spain)



Reg. N.º 287/2010

## Foreword

In accordance with the present agreement between *Fachbereich Elektrotechnik und Informationstechnik - Technische Universität Darmstadt* (hereafter named ETIT) and the *Escuela Técnica Superior de Ingenieros de Telecomunicación de la Universidad Politécnica de Valencia* (hereafter named ETSITV), the two institutions express their intention to strengthen their cooperation in the field of higher education and to develop student exchanges in keeping with the spirit of the European Union. This cooperation brings together the two institutions in the fields of higher education and research and is a part of the framework of programmes put into action by the European Union (Erasmus/Socrates, Leonardo, etc.).

ETIT and ETSITV have decided to undertake student exchanges leading to a double degree: the degree delivered by ETSITV is defined below in [Article 1](#); the degree delivered by ETIT is defined below in [Article 2](#).

In the text that follows the levels of study are given with reference to the Spanish University Entrance Examination (*Pruebas de Acceso a la Universidad-Selectividad*), equivalent to the German “Hochschulreife” for the ETIT Dipl.-Ing. course or the ETIT BSc for the ETIT MSc and ICE MSc.

In the text that follows, for each student concerned, the distinction is made between the « home institution » ETIT, respectively ETSITV, and his/her « host institution », ETSITV, respectively ETIT.

The following articles aim to define the conditions in which students of the two institutions can obtain the double diploma.

## Article 1: ETSITV degree

The ETSITV delivers three degrees:

- “*Ingeniero de Telecomunicación*”- *Plan 63* in the following three specialisations: *Electronics, Communications and Telematics* after getting 375 UPV credits (that are 300 ECTS) which includes a Degree Thesis of 30 ECTS. This is the current degree in force in the moment of signature of this agreement and will finish on September 30<sup>th</sup>, 2014.
- *Master “Ingeniero de Telecomunicación”- Plan 2010* after getting 120 credits which includes a Degree Thesis of 30 ECTS. This degree will be in force from the academic year 2014-2015 on.
- “*Master en Tecnologías, Sistemas y Redes de Comunicaciones*”, after getting 120 credits which includes a Degree Thesis of 30 ECTS. This degree is currently on and will be part from 2014 on of the previous Master “*Ingeniero de Telecomunicación*”-*Plan 2010*.

## Article 2: ETIT degree

The ETIT delivers three degrees:

- Dipl.-Ing. in Elektrotechnik und Informationstechnik in the specialization “Nachrichten- und Kommunikationstechnik” after getting 300 ECTS which includes a Degree Thesis of 30 ECTS. This is one of the current degrees in force in the moment of signature of this agreement. This course started for the last time at 1<sup>st</sup> October 2007
- Master of Science in Elektrotechnik und Informationstechnik (MSc ETIT) in the specialization „Nachrichten- und Kommunikationstechnik“ after getting 120 ECTS which includes a Degree Thesis of 30 ECTS. This degree is still in force.
- Master of Science in Information and Communication Technology (MSc ICE) after getting 120 ECTS which includes a Degree Thesis of 30 ECTS. This degree is still in force.

## Article 3: Exchange semesters

In order to obtain the double degree, ETIT students or ETSITV students must complete the study plan according to the program defined in [Appendix A](#).

## **Article 4: Application documents**

Each institution will provide application documents for its partner. These documents will be based on the European Credit Transfer System forms: «application form for the student», «learning agreement», «transcript of records». The documents should be downloadable from the institution web site, or provided with an on-line application system.

## **Article 5: Candidate selection**

A maximum of four students of each institution can take part every year in this program.

Each institution will present to its partner, by 1 July at the latest, a list of candidates pre-selected by the home institution: the applications will be communicated by electronic mail by an official person designated by the institution. The home institution will be notified of definitive acceptance by the host institution at the latest by 15 July of the same year. The programme of study in the host institution begins at the start of the academic year following the selection.

Students already at host institution on other exchange program would be eligible if they were accepted by the host institution according to the conditions stated in Appendix A.

ETSITV students must have good knowledge and communication skills both in English and German languages.

ETIT students must have good knowledge and communication skills in Spanish language.

## **Article 6: Tuition fees, insurance and other charges**

Students participating in an exchange programme continue to pay tuition or registration fees in their home institution. Students going to Technische Universität Darmstadt only have to pay the semester contribution which includes: student card with semester ticket for free use of public transportation system; contribution to student union; contribution to the students organisation.

No tuition fees are paid to the host institution. The host institution may require the visiting student to present insurance papers covering individual responsibility and medical insurance; see Appendix B and Appendix C for specific insurance requirements.. The fee for the students organisation will be paid by the student.

Diploma and the Diploma Supplement issue and delivery at the host institution will be paid by the student.

## **Article 7: Tutoring students**

The host institution will name a member of the teaching staff to tutor each student. The teacher will act as intermediary with the home institution during the entire study period. The visiting students will have access to all the study resources available to students of the institution. Access to computer services as well as an electronic address will be given to each student, allowing the home institution to remain in contact with the student during the study period in the host institution.

## **Article 8: Administrative and academic regulations**

Throughout the study period in the host establishment, the visiting student is subject to the administrative and academic regulations of the host institution, including those concerning the use of computer services and the attribution of an electronic address, mentioned above.

## **Article 9: Validation of studies by the host institution**

At the end of the course of study undertaken by the visiting student, the host institution will send to the home institution details of the grades obtained by the student and will indicate if the student has satisfactorily completed all of the study semesters required. Students who validate all their study semesters in the host institution could proceed to obtain the double diploma.

## **Article 10: Obtaining the double degree**

A student who fulfils the conditions for the double degree will receive a certificate from each of the two institutions. (see Articles 1 and 2). See Annex D.

## Article 11: Validity of the agreement

The present agreement becomes effective upon ratification by the official authorities. It is valid for six years from the date (to be filled) and after that its validity extends automatically every year for one year.

Should one institution plan to withdraw from the agreement, it must give notice six months in advance, on the understanding that any ongoing actions should be carried through to a successful conclusion.

Every change to the contract will be done as an addendum, signed by both institutions.

For <i>ETSI Telecomunicación de Valencia</i> , on <i>November 23, 2010</i> ,		For <i>Fachbereich Elektrotechnik und Informationstechnik</i> , on <i>November 23, 2010</i> ,
		
The Director Dr. Juan Vicente Balbastre Tejedor	The Dean Prof. Dr.-Ing. Helmut F. Schlaak	
For the <i>Universidad Politécnica de Valencia</i>		For the <i>Technische Universität Darmstadt</i>
		 Der Präsident der Technischen Universität - Präsidialamt -
The Rector Excmo. Sr. D. Juan Juliá Igual	The President Prof. Dr. Hans Jürgen Prömel	
		
Dr. Felipe Laureano Peñaranda Foix Vice-dean for International Relations <i>ETSI Telecomunicación de Valencia</i>	Dr.-Ing. Andreas Haun Head of the Service Center of the Department of Electrical Engineering and Information Technology	

## Appendix A: Exchange periods

This appendix is established for the transitional period until the application of the new Bologna-process-based study plans were in force.

The tables below compares the course of study followed by a ETIT student and that of an ETSITV student involved in the double diploma programme, taking as starting point the first year after the Spanish University Entrance Examination (*Pruebas de Acceso a la Universidad-Selectividad*), equivalent to the German fourth year of the ETIT course (Dipl.-Ing.) or the beginning of the Master courses ETIT or ICE.

For details of ETSITV and ETIT calendars, please consult [Appendix B](#) and [Appendix C](#) respectively.

### List of Acronyms

ETSITV-COURSES-63 goes for: Courses of the Degree “*Ingeniero de Telecomunicación*”- *Plan 63*

ETSITV-MASTERCOMM COURSES goes for: Courses of the Master “*Tecnologías, Sistemas y Redes de Comunicaciones*”

ETSITV-MASTERCOM-THESIS goes for: Master thesis of the Master “*Tecnologías, Sistemas y Redes de Comunicaciones*”

ETSITV-COURSES-MASTER2010 goes for: Courses of the Degree “*Máster Ingeniero de Telecomunicación*”- *Plan 2010*

ETIT-COURSES goes for: Courses for the *Dipl. Ing.* Degree

ETIT-DIPLOMARBEIT goes for: Master Thesis for obtaining the *Dipl. Ing.* Degree

ETIT-MSc-COURSES goes for: Courses for the *MSc* Degree

ETIT-MASTERARBEIT goes for: Master Thesis for obtaining the *MSc* Degree

ETIT-ICE-COURSES goes for: Courses of the “*Master of Science program on Information and Communication Engineering*” (*ICE*)

ETIT-ICE-THESIS goes for: Master Thesis of the “*Master of Science program on Information and Communication Engineering*” (*ICE*)

### Table distribution

Each table is distributed in different pages for better legibility in the following order:

1. For ETSITV students
  - 1.1 For ETSITV (Study Plan 63) students
    - 1.1.1. Option 1 – Focus on *ETIT Dipl.- Ing.*
    - 1.1.2. Option 2 – Focus on *ETIT Master*
    - 1.1.3. Option 3 – Focus on *ICE Master*
  - 1.2. For ETSITV (Study Plan 2010) students
    - 1.2.1 Option 1 – Focus on *ETIT Master*
    - 1.2.2. Option 2 – Focus on *ICE Master*
  - 1.3. For ETSITV (*Master en Tecnologías, Sistemas y Redes de Comunicaciones*) students
    - 1.3.1 Option 1 – Focus on *ETIT Master*
    - 1.3.2 Option 2 – Focus on *ICE Master*
2. For ETIT students
  - 2.1. Option 1 – ETIT *Dipl.- Ing.* students focusing on *Ingeniero de Telecomunicación ETSITV-Plan 63*
  - 2.2. Option 2– *ETIT MSc* students focusing on *Ingeniero de Telecomunicación ETSITV-Plan 63*
  - 2.3. Option 3 – *ETIT MSc* students focusing on *Ingeniero de Telecomunicación ETSITV-Plan 2010*
  - 2.4. Option 4 – *ETIT MSc* students focusing on *Master en Tecnologías, Sistemas y Redes de Comunicaciones*

3. Special case 1: ETSITV students already on a current exchange in TU-Darmstadt apply for this Double Diploma program
4. Special case 2: ETIT students already on a current exchange in Universidad Politécnica de Valencia apply for this Double Diploma program
5. Notes for extending the agreement when new study plans were in force

### ***For ETSITV (Study Plan 63) students***

ETSITV students currently doing courses on the basis of the Study Plan 63 have two ways:

#### **Option 1 – Focus on *Dipl.-Ing. (1.1.1)***

The exchange begins in the fifth year of studies with the following scheme:

Period	Semester	ETSITV students - option 2
1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> years		ETSITV-COURSES-63
5 <sup>th</sup> year		ETIT-COURSES
6 <sup>th</sup> year	1 <sup>st</sup> semester	ETIT-DIPLOMARBEIT
	2 <sup>nd</sup> semester	
		Degrees achieved: <ol style="list-style-type: none"> <li>1. <i>Ingeniero de Telecomunicación ETSITV Plan 63</i></li> <li>2. <i>Dipl.- Ing. in Elektrotechnik und Informationstechnik</i></li> </ol>

#### **Option 2 – Focus on ETIT Master or *ICE Master (1.1.2 or 1.1.3)***

The exchange begins in the fifth year of studies with the following scheme:

Period	Semester	ETSITV students - option 1
1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> years		ETSITV-COURSES-63
Certificate on <i>Ingeniero Técnico de Telecomunicación ETSIV</i> (it is equivalent to a BSc)		
4 <sup>th</sup> year		Additional ETSITV-COURSES-63
5 <sup>th</sup> year		ETIT-MSc-COURSES or ETIT-ICE-COURSES
6 <sup>th</sup> year	1 <sup>st</sup> semester	ETIT-MASTERARBEIT or ETIT-ICE-THESIS
	2 <sup>nd</sup> semester	
		Degrees achieved: <ol style="list-style-type: none"> <li>1. <i>Ingeniero de Telecomunicación ETSITV Plan 63</i></li> <li>2. <i>MSc. on Information and Communication Engineering (ICE) or MSc in Elektrotechnik und Informationstechnik</i></li> </ol>

**For ETSITV (Study Plan 2010) students**

ETSITV students that will star *Plan 2010* next year on:

**Option 1 – Focus on ETIT Master or ICE Master**

The exchange begins in the second year of master studies with the following scheme:

Period	Semester	ETSITV students - option 1
<i>Students already have a Bachelor degree</i>		
1 <sup>st</sup> year		ETSITV-COURSES-MASTER2010
2 <sup>nd</sup> year		ETIT-MSc-COURSES or ETIT-ICE-COURSES
3 <sup>rd</sup> year	1 <sup>st</sup> semester	ETIT-MASTERARBEIT or ETIT-ICE-THESIS
	2 <sup>nd</sup> semester	—
		Degrees achieved: <ol style="list-style-type: none"> <li>1. <i>Máster Ingeniero de Telecomunicación ETSITV Plan 2010</i></li> <li>2. <i>MSc. on Information and Communication Engineering (ICE) or MSc in Elektrotechnik und Informationstechnik</i></li> </ol>

**For ETSITV (Master en Tecnologías, Sistemas y Redes de Comunicaciones) students**

ETSITV Master en Tecnologías, Sistemas y Redes de Comunicaciones students (from 2010 until 2014; from 2014 on the previous point “For ETSITV (Study Plan 2010) students” will apply):

**Option 1 – Focus on ETIT Master or ICE Master**

The exchange begins in the second year of studies with the following scheme:

Period	Semester	ETSITV students - option 1
<i>Students already have a Bachelor degree</i>		
1 <sup>st</sup> year		ETSITV-MASTERCOMM COURSES
2 <sup>nd</sup> year		ETIT-MSc-COURSES or ETIT-ICE-COURSES
3 <sup>rd</sup> year	1 <sup>st</sup> semester	ETIT-MASTERARBEIT or ETIT-ICE-THESIS
	2 <sup>nd</sup> semester	
		Degrees achieved: <ol style="list-style-type: none"> <li>1. <i>Master en Tecnologías, Sistemas y Redes de Comunicaciones</i></li> <li>2. <i>MSc. on Information and Communication Engineering (ICE) or MSc in Elektrotechnik und Informationstechnik</i></li> </ol>

**For ETIT students**

ETIT students have three (3) options depending on their current studies:

**Option 1 – ETIT *Dipl.-Ing.* students focusing on *Ingeniero de Telecomunicación ETSITV-Plan 63***

The exchange begins in the fifth year of study following this scheme:

Period	Semester	ETIT students - option 1
1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> year		ETIT-COURSES
4 <sup>th</sup> year	1 <sup>st</sup> semester	ETIT-COURSES
	2 <sup>nd</sup> semester	Research project at ETIT
5 <sup>th</sup> year		ETSITV-COURSES-63
6 <sup>th</sup> year	1 <sup>st</sup> semester	Master Thesis at the ETSITV in research institutions or firms.
	2 <sup>nd</sup> semester	
		<p style="text-align: center;">Degrees achieved:</p> <ol style="list-style-type: none"> <li>1. <i>Ingeniero de Telecomunicación ETSITV – Plan 63</i></li> <li>2. <i>Dipl.- Ing. in Elektrotechnik und Informationstechnik</i></li> </ol>

**Option 2 – ETIT MSc or ICE students focusing on *Ingeniero de Telecomunicación ETSITV-Plan 63***

The exchange begins in the second year of study following this scheme:

Period	Semester	ETIT students - option 2
<i>Students already have a Bachelor degree</i>		
1 <sup>st</sup> year	1 <sup>st</sup> semester	ETIT MSc or ICE-COURSES
	2 <sup>nd</sup> semester	Research project at ETIT-ICE
2 <sup>nd</sup> year		ETSITV-COURSES-63
3 <sup>rd</sup> year	1 <sup>st</sup> semester	Master Thesis at the ETSITV in research institutions or firms.
	2 <sup>nd</sup> semester	
		<p style="text-align: center;">Degrees achieved:</p> <ol style="list-style-type: none"> <li>1. <i>Ingeniero de Telecomunicación ETSITV – Plan 63</i></li> <li>2. <i>MSc. on Information and Communication Engineering (ICE) or MSc in Elektrotechnik und Informationstechnik</i></li> </ol>

### Option 3 – ETIT MSc or ICE students focusing on *Ingeniero de Telecomunicación ETSITV-Plan 2010*

The exchange begins in the second year of study following this scheme:

Period	Semester	ETIT students - option 3
<i>Students already have a Bachelor degree</i>		
1 <sup>st</sup> year		ETIT MSc or ETIT-ICE-COURSES
2 <sup>nd</sup> year		ETSITV-MASTERCOMM COURSES
3 <sup>rd</sup> year	1 <sup>st</sup> semester	ETSITV-MASTERCOM-THESIS
	2 <sup>nd</sup> semester	—
		Degrees achieved:
		1. <i>Master en Tecnologías, Sistemas y Redes de Comunicaciones</i>
		2. <i>MSc. on Information and Communication Engineering (ICE) or MSc in Elektrotechnik und Informationstechnik</i>

### Option 4 – ETIT MSc or ICE students focusing on *Master en Tecnologías, Sistemas y Redes de Comunicaciones*

The exchange begins in the second year of study following this scheme:

Period	Semester	ETIT students - option 4
<i>Students already have a Bachelor degree</i>		
1 <sup>st</sup> year		ETIT MSc or ETIT-ICE-COURSES
2 <sup>nd</sup> year		ETSITV-MASTERCOMM COURSES
3 <sup>rd</sup> year	1 <sup>st</sup> semester	ETSITV-MASTERCOM-THESIS
	2 <sup>nd</sup> semester	—
		Degrees achieved:
		3. <i>Master en Tecnologías, Sistemas y Redes de Comunicaciones</i>
		4. <i>MSc. on Information and Communication Engineering (ICE) or MSc in Elektrotechnik und Informationstechnik</i>

#### ***Special case 1: ETSITV students already on a current exchange in Technische Universität Darmstadt apply for this Double Diploma program***

The ETSITV student should first transcript all his/her marks. If after such transcription he/she had all courses until 4<sup>th</sup> year inclusive passed, he/she could be accepted for this Double Diploma. If the student had passed some spare Master courses during his stay, these courses would be validated.

***Special case 2: ETIT students already on a current exchange in Universidad Politécnica de Valencia apply for this Double Degree program***

The ETIT student should first have the Bachelor Sc. degree at *Technische Universität Darmstadt* and the equivalent to two semesters of the ETIT-ICE, validated by the *Technische Universität Darmstadt*. The ETSITV would proceed to transcript all those credits to the Spanish systems and after that will accept the student to the ETSITV-COURSES.

***Notes for extending the agreement when new study plans were in force***

Both institutions agree to redesign these exchange schemas when their new study plans were in force, on the following basis: 2 semesters at the home institution + 3 semesters at the host institution.

## Appendix B: Practical information concerning ETSITV

- Institution:
  - Escuela Técnica Superior de Ingenieros de Telecomunicación
  - Universidad Politécnica de Valencia
- Postal address:
  - ETSI Telecomunicación
  - Universidad Politécnica de Valencia
  - Camino de Vera s/n
  - 46022 Valencia (SPAIN)
- Web site: <http://www.etsit.upv.es>
- Course catalogue : <http://www.etsit.upv.es/Docencia/index.htm>
- Year calendar: <http://www.etsit.upv.es/Docencia/index.htm>
- Socrates Code: E VALENCI02;
- Forms and exchange procedure:
  - See  
<http://www.apit.upv.es/foreigners/foreigners.php>
- Exchange representative:
  - See  
[http://www.apit.upv.es/contactos\\_y\\_enlaces.htm](http://www.apit.upv.es/contactos_y_enlaces.htm)
- Housing:
  - See the web pages concerning «Housing and Student Life»  
<http://www.apit.upv.es/foreigners/foreigners.php>
- Insurance :
  - ETSITV requires that the visiting student show proof of his medical and individual responsibility insurance (see [Article 6](#))

## Appendix C: Practical information concerning TUD-FB 18

- Institution:
  - Fachbereich 18: “Elektrotechnik und Informationstechnik“
  - Technische Universität Darmstadt
- Postal address:
  - Dekanat Fachbereich 18 ETIT
  - Technische Universität Darmstadt
  - Merckstr. 25
  - D - 64283 Darmstadt
- Web site: <http://www.etit.tu-darmstadt.de> ;
- Course catalogue : <http://www.tu-darmstadt.de/vv>;
- Year calendar :  
[http://www.tu-darmstadt.de/studieren/studienorganisation/semestertermine/semestertermine\\_1.de.jsp](http://www.tu-darmstadt.de/studieren/studienorganisation/semestertermine/semestertermine_1.de.jsp);
- Socrates Code: DEDARMSTA01;
- Forms and exchange procedure:
  - See the web pages concerning «Double Diploma», application procedure for European incomings  
[http://www.tu-darmstadt.de/international/exchangestudents/inbound/europe\\_inbound/index.en.jsp](http://www.tu-darmstadt.de/international/exchangestudents/inbound/europe_inbound/index.en.jsp)
- Exchange representative:
  - See  
<http://www.etit.tu-darmstadt.de/Studienbuero-des-FB-18.234.0.html> ;
- Housing :
  - See the web pages concerning «Housing and Student Life»  
[http://www.tu-darmstadt.de/international/exchangestudents/inbound/europe\\_inbound/erasmus\\_inbound/index.en.jsp](http://www.tu-darmstadt.de/international/exchangestudents/inbound/europe_inbound/erasmus_inbound/index.en.jsp)
- Insurance :
  - TUD requires that the visiting student show proof of his medical and individual responsibility insurance (see [Article 6](#))