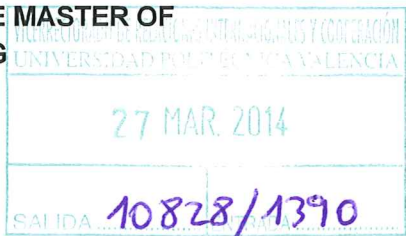


DOUBLE DEGREE AGREEMENT BETWEEN
UNIVERSITAT POLITÈCNICA DE VALÈNCIA
AND TELECOM LILLE,
FOR A DOUBLE DEGREE IMPLEMENTATION AT THE MASTER OF
TELECOMMUNICATIONS ENGINEERING



In Valencia, November 28th, 2013

BETWEEN

On the one hand, the Universitat Politècnica de València, hereafter referred to as UPV, whose VAT no. is Q-4618002-B, established by the Spanish Government Act no. 495 of the 11th of March 1971, published on the Congressional Record of the 26th of March 1971, having its head office at Camino de Vera, s/n, in Valencia, P.C. 46022, Spain, and on its behalf the President Mr. Francisco José Mora Más, appointed by the Valencian Regional Government Act no. 65/2013, of 30th May, and pursuant to the authority conferred by article 53-d of the UPV Statutes, approved by Valencian Regional Government Act no. 182/2011, of 25th November.

And on the other hand, *Professeur* Bertrand BONTE, *Directeur* of the TELECOM Lille1 at Villeneuve d'Ascq-CEDEX (France), (later "Lille1"), acting on behalf of the University

DECLARE

I

That the UPV is a Public Law entity with its own legal personality that carries out teaching, research and scientific and technological development. As stated in Article 2 of its Statutes, it is interested in intensifying international co-operation through exchange visits involving members of the University community, collaboration in the fields of teaching, research, technological development and innovation, one of the objectives of the UPV being that of allowing all its students to undertake part of their university studies at universities in other countries.

II

That the Lille1 is a French university whose main campus is located in the town of Villeneuve d'Ascq, awards the degree of "diplôme d'ingénieur", equivalent to the Master of Telecommunication Engineering from the UPV.

III

That both the UPV and Lille1, through the signature of this agreement, promote the exchange of the students in degree courses of "diplôme d'ingénieur" and "Máster en Ingeniería de Telecomunicación" (Master in Telecommunication Engineering) to obtain a double degree. Both institutions recognize that they exchanged students in Telecommunication Engineering



during several academic years, and even they had a Double Degree agreement based on the disappeared Telecommunications Integrated Master at UPV.

NOW, THEREFORE, in consideration of the foregoing, the UPV and the Lille1 hereby enter into and sign a Double Degree Agreement, in accordance with the following

CLAUSES

FIRST – PURPOSE OF THE AGREEMENT

The purpose of this agreement is to establish a frame work for collaboration between the UPV, *Escuela Técnica Superior de Ingenieros de Telecomunicación* (ETSIT), and Lille1 in order to establish the conditions that students from these institutions must fulfil to gain the academic degrees of Master in Telecommunication Engineering from the ETSIT-UPV and the *diplôme d'ingénieur* of TELECOM Lille1.

SECOND - CONDITIONS

1. There are two different itineraries for the ETSIT-UPV and Lille1 students, and depending on each one the number of the minimum ECTS already achieved in the home university are different (see annex I):
 - a. ETSIT-UPV to Lille1 (itinerary 1a): ETSIT-UPV students must have completed a minimum of 180 ECTS at ETSIT-UPV at Bachelor level (*Grado*) and also a minimum of 60 ECTS at ETSIT-UPV at Master level¹.
 - b. ETSIT-UPV to Lille1 (itinerary 2a): ETSIT-UPV students must have completed a minimum of 60 ECTS at ETSIT-UPV at Master level
 - c. Lille1 to ETSIT-UPV (itinerary 1b): Lille1 students must have completed a minimum of 4 academic (S1, S2, S3, S4,S5, S6, S7 and S8) years at Lille1
 - d. Lille1 to ETSIT-UPV (itinerary 2b): Lille1 students must have completed a minimum of 7 semesters (S1, S2, S3, S4, S5, S6 and S7) at Lille1
2. The students during their stay at the host university will be enrolled in their home university. For this purpose, the current regulations for grantees will be applied in the respective countries. The students participating in the double degree program are exempt from paying tuition fees at the destination university.
3. The ETSIT-UPV students will enroll in the Lille1 as European Union citizens and are required to comply with the examination regulations of the destination university.
4. The Lille1 students will enroll in the ETSIT-UPV as European Union citizens and are required to comply with the examination regulations of the destination university.
5. After successful completion of studies and according to the respective regulations, the UPV will award the degree of "*Máster Ingeniero de Telecomunicación*" and the degree of *diplôme d'ingénieur* of TELECOM Lille1

¹ For ETSIT-UPV students following this *itinerary 1a* must be remarked that they will follow the UPV requirements to register in the Master once the Bachelor degree is awarded.



6. Both institutions will assist the students in finding accommodation and with social integration.
7. The exchange will be done through the Erasmus programme or its successor and starts at the beginning of each academic year.
8. Both institutions will provide exchange students with the adequate possibility to improve their knowledge of the language of the host country.
9. All the students must provide that are covered by a health insurance in their mobility, to be covered in case of accident or illness
10. All the students in mobility under this agreement can not apply, in the host university, to other mobility grants handled by this university.
11. Both universities state a number of 3 students per university and per year that can apply for this Double Degree agreement, and they will try to keep the reciprocity.

THIRD – IMPLEMENTATION OF THE AGREEMENT

a) Mobility from ETSIT-UPV to the Lille1.

Before mobility, ETSIT-UPV students must demonstrate knowledge of French equivalent to level B1.

The ETSIT-UPV students must accomplish the following requirements to obtain a double degree:

- Itinerary 1a: The students must have completed at least 180 ECTS in the ETSIT-UPV, as indicated in Annex I (denoted as **BACHELOR 1**, **BACHELOR 2** and **BACHELOR 3** in Annex I-Itinerary 1a).
 - They will have to complete in the Lille 60 ECTS (denoted as **S7-S8** in Annex I-Itinerary 1a) in combination with the following activities (48 ECTS + 12 ECTS of the Bachelor Thesis or internship) and, after 60 ECTS at ETSIT-UPV for the 1st Master academic year (denoted as **MASTER 1** in Annex I-Itinerary 1a), another 60 ECTS in the Lille1 (denoted as **S9-S10** in Annex I-Itinerary 1a). Courses are indicated in Annex II. (See foot note 1 at page 1).
- Itinerary 1b: The students must have completed at least 60 ECTS in the ETSIT-UPV, as indicated in Annex I-Itinerary 2a).
 - They will have to complete in the Lille1 120 ECTS (denoted as **S7-S8** and **S9-S10** in Annex I-Itinerary 2a) in combination with the following activities (90 ECTS + 30 ECTS of the Master Thesis or internship as indicated in Annex II).

b) Mobility from Lille1 to the ETSIT-UPV

Before mobility, Lille1 students must prove knowledge of Spanish equivalent to level B1.

The Lille1 students must meet the following requirements to obtain a double degree:

- Itinerary 1b: The students must have completed at least 240 ECTS in the Lille1, as indicated in Annex I (denoted as **S1-S2**, **S3-S4**, **S5-S6** and **S7-S8** in Annex I-Itinerary 1b).
 - They will have to complete in the ETSIT-UPV 60 ECTS (denoted as **MASTER 1** in Annex I-Itinerary 1b) and another 30 ECTS at ETSIT-UPV or Lille1 as Master Thesis, and always co-tutored by one professor from each university. Courses are indicated in Annex II.
- Itinerary 2b: The students must have completed at least 210 ECTS in the Lille1, as indicated in Annex I-Itinerary 2b).



- They will have to complete in the ETSIT-UPV 30 ECTS (denoted as **BACHERLOR 4** in Annex I-Itinerary 2a) and then to follow the itinerary 1b.

In all the 4 cases the students must be registered in the course “Tesis de Máster” (Master Thesis) (see table I, column 4) at ETSIT-UPV

FOURTH – EFFECTIVE DATE AND DURATION

This agreement shall come into effect as of the moment it is signed and shall remain effective for a period of four (4) years with the possibility of extending it for additional periods, if the two signing parties expressly agree to do so.

FIFTH – AMENDMENTS

The parties may amend this agreement at any time, provided the two signing parties expressly agree to do so.

SIXTH – TERMINATION OF THE AGREEMENT

This Agreement may be terminated for the following reasons:

- By mutual agreement between the parties.
- By expiry of the initial period of validity or of its extensions.
- By failure to fulfil the obligations that were established or due to having breached the duty of trust.
- By unilateral decision taken by one of the parties, provided written notice to this effect is given six months before the date on which the agreement is to be terminated.

In any case, if the decision is taken to terminate this agreement prematurely, the two parties commit themselves to finish any undertakings that have already been started when notice of the termination is given.

SEVENTH- RESOLUTION OF CONTROVERSIES

The parties undertake to resolve any discrepancies that may arise from the implementation of this agreement in a friendly manner. Should this give rise to some kind of conflict, the parties shall finally comply with the International Chamber of Commerce rules of arbitration, with the aid of an arbitrator chosen in keeping with such rules.



This Agreement is signed in four in the place and on the date indicated above.

For Universidad Politécnica de Valencia

For TELECOM Lille1



Le Directeur
Narendra JUSSIEN

President: Prof. Dr. Francisco J. Mora Mas

Directeur: Professeur ~~Bertrand~~ BONTE

For ETSIT-UPV



Dean: Dr. Alberto González Salvador

Directeur des Etudes: Jean-François COLIN

Head of International Relations: D. A. HIPPLE

Télécom Lille

Cité Scientifique - Rue Guillaume Marconi
BP 20145
59653 VILLENEUVE D'ASCQ CEDEX
Tél. : 03.20.33.55.77 - Fax : 03.20.33.55.99
GIE régi par l'Ordonnance du 23/09/1967



ANNEXES TO THE AGREEMENT:

ANNEX I.-FLUX DIAGRAM OF THE 4 MOBILITIES 1A, 2A, 1B AND 2B

ANNEX II.-PLAN OF COURSES TO BE TAKEN IN EACH UNIVERSITY DEPENDING ON THE ITINERARY

ANNEX III.-DESCRIPTION OF THE CREDIT AND GRADING SYSTEM APPLIED AT EACH UNIVERSITY AND THEIR EQUIVALENCE

ANNEX IV.-FOLLOW-UP AND CO-ORDINATION COMMITTEE

JUST FOR UPV:

ANNEX V.-INFORME DE LA COMISIÓN ACADÉMICA DEL TÍTULO CORRESPONDIENTE. INFORME DE LA COMISIÓN ACADÉMICA DEL PROGRAMA DE DOCTORADO EN CASO DE CONVENIO PARA ESTUDIOS DE DOCTORADO

ANNEX VI.- RESOLUCIÓN DE LA SUBCOMISIÓN DE RECONOCIMIENTO DE CRÉDITOS DE LA UPV ACEPTANDO LA PROPUESTA DE RECONOCIMIENTO DE CRÉDITOS DE LOS ESTUDIOS CURSADOS EN LA UNIVERSIDAD DE ORIGEN

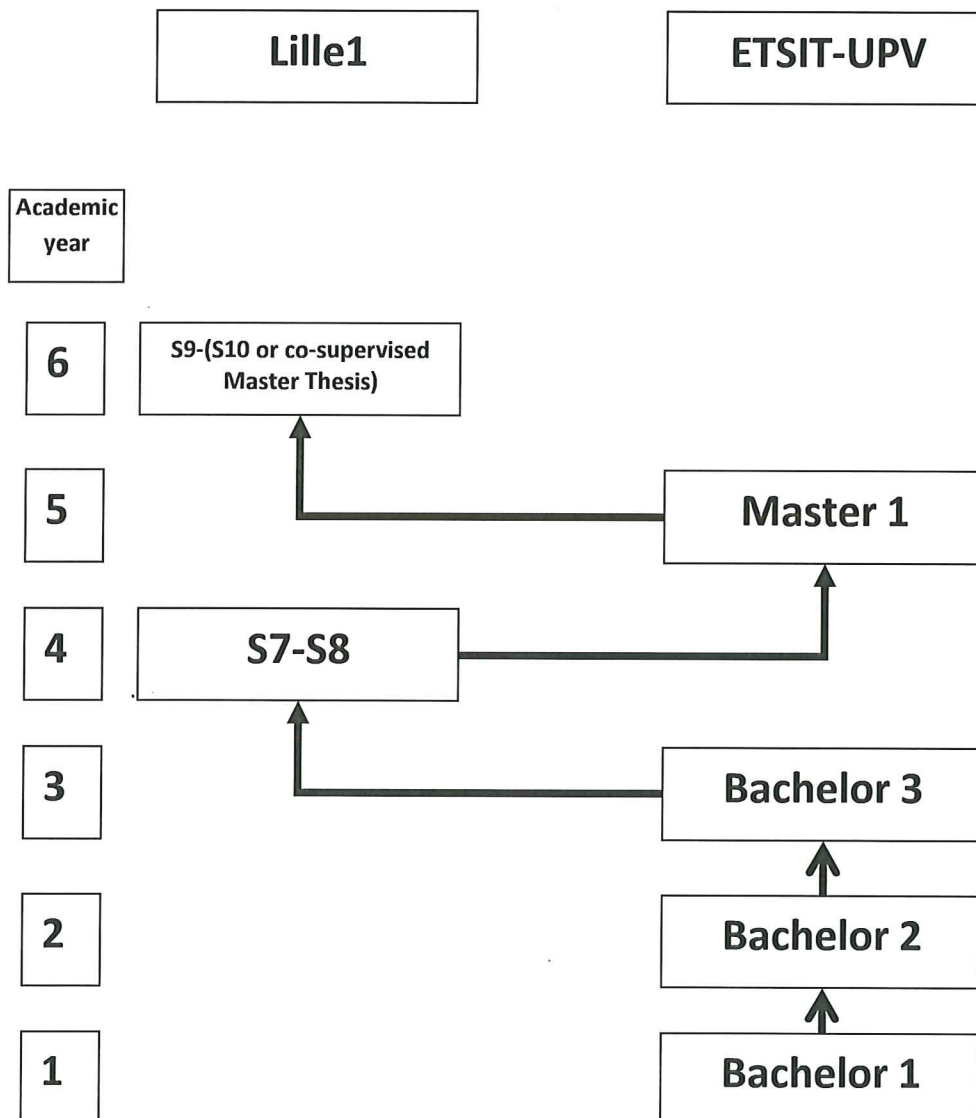
ANNEX I

Flux diagram of the 4 mobilities 1a, 2a, 1b and 2b

ITINERARY 1a: ETSIT-UPV to Lille1

[each box represents:

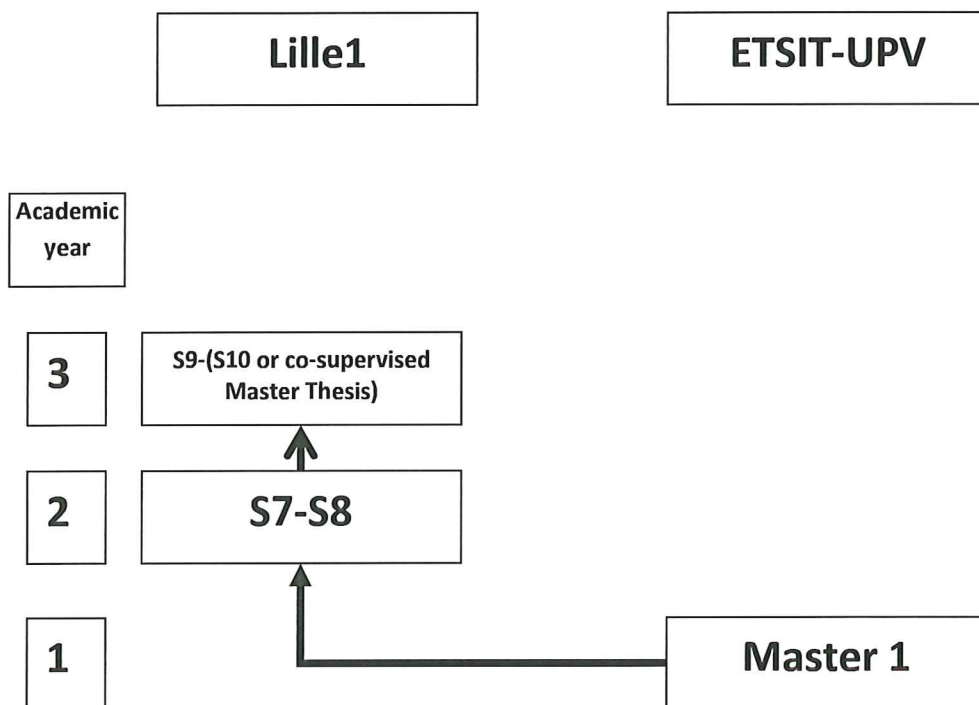
30 ECTS (1st semester)+ 30 ECTS (2nd semester)]



ITINERARY 1b: ETSIT-UPV to Lille1

[each box represents:

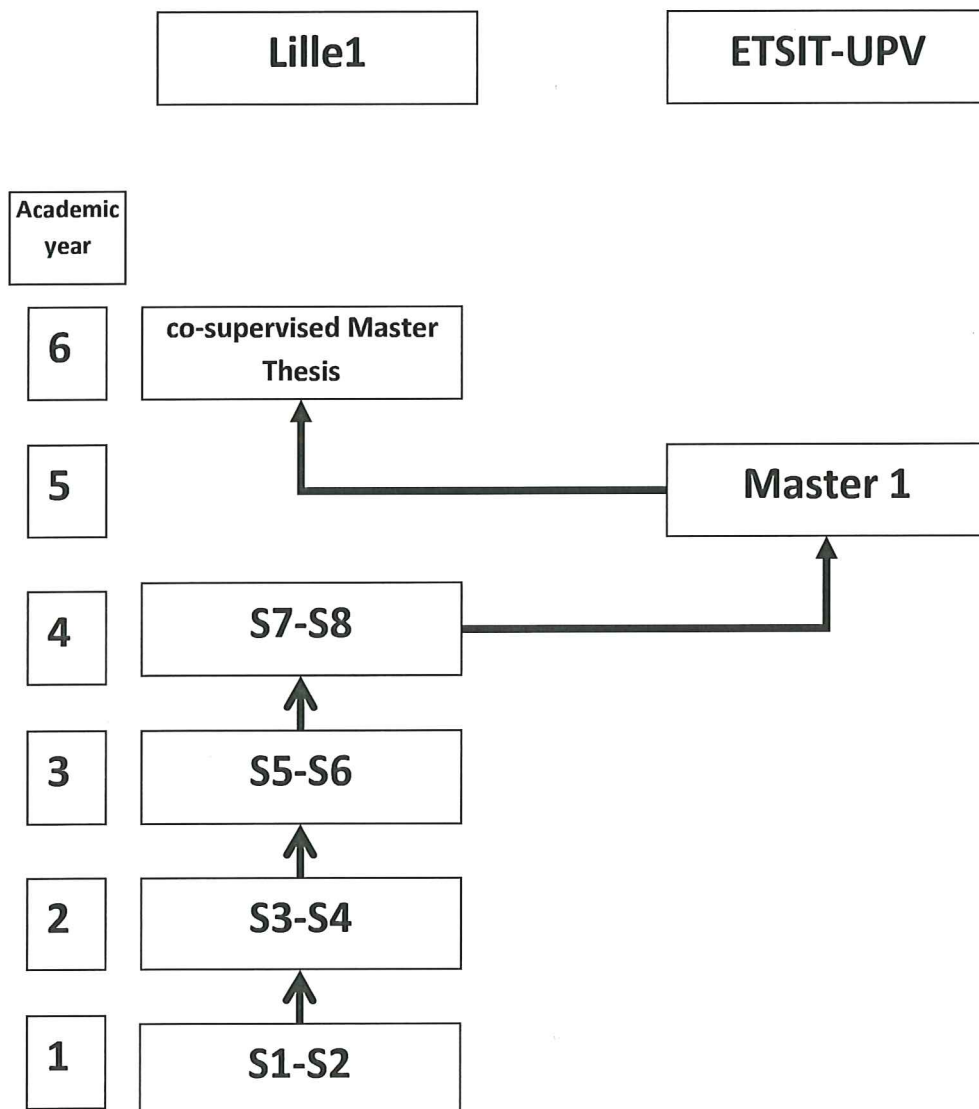
30 ECTS (1st semester)+ 30 ECTS (2nd semester)]



ITINERARY 2a: Lille1 to ETSIT-UPV

[each box represents:

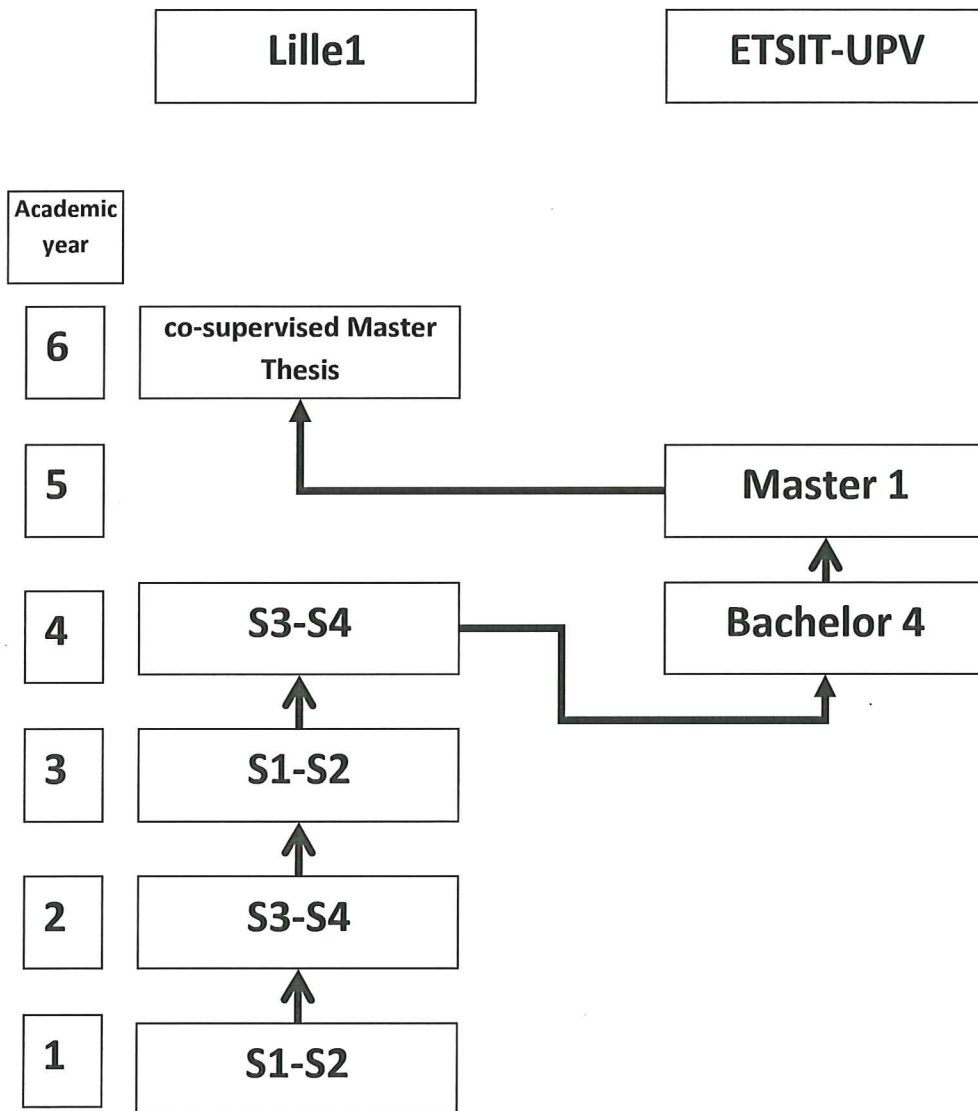
30 ECTS (1st semester)+ 30 ECTS (2nd semester), and S6 represents just one semester]



ITINERARY 2b: Lille1 to ETSIT-UPV

[each box represents:

30 ECTS (1st semester)+ 30 ECTS (2nd semester) and S6 represents just one semester]



ANNEX II

Plan of Courses to be Taken in each University Depending on the Itinerary

ITINERARY 1a

ACEDMIC YEARS: 1 st , 2 nd and 3 rd	ACADEMIC YEAR: 4 th	ACADEMIC YEAR: 5 th	ACEDMIC YEAR: 6 th
ETSIT-UPV students at UPV (BACHELOR 1, BACHELOR 2 and BACHELOR 3)	ETSIT-UPV students at Lille1 (S7-S8)	ETSIT-UPV students at UPV (MASTER 1)	ETSIT-UPV students at Lille1 (S9-S10)
They must have obtained 180 ECTS, all from the academic years 1, 2 and 3 at ETSIT-UPV (see table II, and IIIa, IIIb and IIIc, depending on the speciality)	LIST OF COURSES AT Lille1 (see table IV, options marked as ANNEE 4 ^{ème})	They must have obtained 60 ECTS corresponding to the 1 st academic year (see table I : MASTER 1)	LIST OF COURSES AT Lille1 (see table V, options marked as ANNEE 5 ^{ème})
Σ CP= 180 ECTS	Σ CP= 60 ECTS	Σ CP= 60 ECTS	Σ CP= 60 ECTS

ITINERARY 2a

ACADEMIC YEAR: 1 st	ACADEMIC YEAR: 2 nd	ACADEMIC YEAR: 3 rd
ETSIT-UPV students at UPV (MASTER 1)	ETSIT-UPV students at LILLE1 (S7-S8)	ETSIT-UPV students at LILLE1 (S9-S10)
They must have obtained 60 ECTS corresponding to the 1 st academic year (see table I)	LIST OF COURSES AT Lille1 (see table IV, options marked as <i>ANNEE 4^{ème}</i>)	LIST OF COURSES AT Lille1 (see table V, options marked as <i>ANNEE 5^{ème}</i>)
Σ CP= 60 ECTS	Σ CP= 60 ECTS	Σ CP= 60 ECTS

ITINERARY 1b

ACADEMIC YEARS: 1 st , 2 nd , 3 rd and 4 th	ACADEMIC YEAR: 5 th	ACADEMIC YEAR: 6 th
Lille1 students at Lille1 (S1-S2, S3-S4, S5-S6 and S7-S8)	Lille1 students at ETSIT-UPV (MASTER 1)	Lille1 students at ETSIT-UPV or Lille1 (co-supervised Master Thesis)
They must have obtained 240 ECTS corresponding to the 1 st , 2 nd , 3 rd and 4 th academic years	LIST OF COURSES AT ETSIT-UPV (see table I: MASTER 1)	LIST OF COURSES AT Lille1 or ETSIT UPV (see table I: Master Thesis)
Σ CP= 240 ECTS	Σ CP= 60 ECTS	Σ CP= 30 ECTS

ITINERARY 2b

ACADEMIC YEARS: 1 st , 2 nd , 3 rd and 1 st semester of the 4 th	ACADEMIC YEAR: 2 nd semester of the 4 th	ACADEMIC YEAR: 5 th	ACADEMIC YEAR: 6 th
Lille1 students at Lille1 (S1-S2, S3-S4, S5-S6 and S7)	Lille1 students at ETSIT-UPV (BACHELOR 4)	Lille1 students at ETSIT-UPV (MASTER 1)	Lille1 students at ETSIT-UPV or Lille1 (co-supervised Master Thesis)
They must have obtained 210 ECTS corresponding to the 1 st , 2 nd , 3 rd and part of 4 th academic years	LIST OF COURSES AT ETSIT-UPV (see table IIIa, IIIb or IIIc, -BACHELOR 4-, depending on the desired speciality)	LIST OF COURSES AT ETSIT-UPV (see table I: MASTER 1)	LIST OF COURSES AT Lille1 or ETSIT-UPV (see table I: Master Thesis)
Σ CP= 210 ECTS	Σ CP= 30 ECTS	Σ CP= 60 ECTS	Σ CP= 30 ECTS

TABLE I.-Master courses at ETSIT-UPV

MASTER 1			MASTER 2	
Semester 1	Semester 2	Semester 1	Semester 2	
PSCA: Procesamiento de señal en sistemas de comunicaciones y audiovisuales [<i>Signal processing in communication systems and audiovisuals</i>] (6 ECTS)	SYS: Sistemas y servicios de transmisión por radio [<i>Radio transmission services and systems</i>] (6 ECTS)	IRS: Implantación de redes y servicios de telecomunicación [<i>Implantation of telecommunication networks and services</i>] (4,5 ECTS)	TFM: Tesina de Master [<i>Master Thesis</i>] (30 ECTS)	
ESC: Equipos y subsistemas de comunicaciones [<i>Communication devices and subsystems</i>] (6 ECTS)	RTD: Redes de transporte y distribución por cable [<i>Cable networks for transport and distribution</i>] (6 ECTS)	O: Optativas [<i>Optionals</i>] (18 ECTS)		
IST: Integración de servicios telemáticos [<i>Integration of Telematic services</i>] (6 ECTS)	IRT: Interconexión de redes de telecomunicación [<i>Interconnection of Telecommunication networks</i>] (7,5 ECTS)	ITSI: Integración de tecnologías y sistemas en ingeniería de telecomunicación [<i>Integration of technologies and systems in Telecommunication Engineering</i>] (7,5 ECTS)		
CHS: Codiseño hardware-software [<i>Hardware-Software co-design</i>] (6 ECTS)	CEAF: Circuitos electrónicos de alta frecuencia [<i>High frequency electronic circuits</i>] (6 ECTS)			
TIE: Transductores e instrumentación electrónica [<i>Electronic instrumentation and transducers</i>] (6 ECTS)	GTPT: Gestión técnica y económica de proyectos de telecomunicación [<i>Technical and economic management of telecommunication projects</i>] (4,5 ECTS)			

TABLE II.-Bachelor courses at ETSIT-UPV: Academic years 1 and 2

BACHELOR 1			BACHELOR 2		
Semester 1	Semester 2		Semester 1	Semester 2	
Matemáticas I [<i>Mathematics I</i>] (7.5 ECTS)	Matemáticas II [<i>Mathematics II</i>] (7.5 ECTS)		Redes telemáticas [<i>Telematic networks</i>] (4.5 ECTS)	Arquitecturas telemáticas [<i>Telematic architectures</i>] (4.5 ECTS)	
Física I [Physics I] (6 ECTS)	Física II [Physics II] (6 ECTS)		Matemáticas III [<i>Mathematics III</i>] (4.5 ECTS)	Teoría de la comunicación [<i>Communication theory</i>] (6 ECTS)	
Programación [<i>Programming</i>] (6 ECTS)	Dispositivos electrónicos [<i>Electronic devices</i>] (6 ECTS)		Circuitos electrónicos [<i>Electronics circuits</i>] (6 ECTS)	Sistemas digitales Programables [<i>Programmable digital systems</i>] (4.5 ECTS)	
Fundamentos de computadores [<i>Computer basics</i>] (4.5 ECTS)	Fundamentos de telemática [<i>Telematic basics</i>] (4.5 ECTS)		Probabilidad y señales (procesos) aleatorias [<i>Statistics and random signals</i>] (4.5 ECTS)	Acústica [<i>Acoustics</i>] (4.5 ECTS)	
Teoría de circuitos [<i>Circuit theory</i>] (6 ECTS)	Fundamentos de organización y gestión de empresas [<i>Basics of company management</i>] (6 ECTS)		Señales y sistemas [<i>Signal and Systems</i>] (6 ECTS)	Radiación y propagación de Ondas [<i>Wave radiation and propagation</i>] (6 ECTS)	
			Fundamentos de sistemas Digitales [<i>Basics of digital systems</i>] (4.5 ECTS)	Sistemas microprocesadores [<i>Microprocessor systems</i>] (4.5 ECTS)	

TABLE IIIa: Bachelor courses at ETSIT-UPV: *Telecommunication Systems* speciality

BACHELOR 3			BACHELOR 4	
Semester 1	Semester 2	Semester 1	Semester 2	
Conversión y control de Energía [<i>Energy control and conversion</i>] (4.5 ECTS)	Sistemas de telecomunicación [<i>Telecommunication systems</i>] (4.5 ECTS)	Comunicaciones móviles e Inalámbricas [<i>Mobile and wireless communications</i>] (6 ECTS)	Comunicaciones ópticas II [<i>Optical communications II</i>] (4.5 ECTS)	
Fundamentos de transmisión [<i>Transmission basics</i>] (7.5 ECTS)	Tratamiento digital de señal en comunicaciones II [<i>Digital signal processing in Communications II</i>] (4.5 ECTS)	Comunicaciones ópticas I [<i>Optical communications I</i>] (4.5 ECTS)	Radiodeterminación [<i>Radiodetermination</i>] (4.5 ECTS)	
Diseño de servicios telemáticos [<i>Design of telematic services</i>] (4.5 ECTS)	Líneas de transmisión [<i>Transmission Lines</i>] (4.5 ECTS)	Microondas [<i>Microwaves</i>] (6 ECTS)	Optativa IV [<i>Optional IV</i>] (4.5 ECTS)	
Lengua extranjera [<i>Foreign language</i>] (4.5 ECTS)	Antenas [<i>Antennas</i>] (6 ECTS)	Comunicaciones digitales [<i>Digital communications</i>] (4.5 ECTS)	Optativa V [<i>Optional V</i>] (4.5 ECTS)	
Tratamiento digital de señal en comunicaciones I [<i>Digital signal processing in Communications I</i>] (4.5 ECTS)	Política y normativa de telecomunicación [<i>Telecommunication regulations</i>] (4.5 ECTS)	Optativa I [<i>Optional I</i>] (4.5 ECTS)	Trabajo Fin de Grado [<i>Bachelor Thesis</i>] (12 ECTS)	
Radiocomunicaciones [<i>Radiocommunications</i>] (4.5 ECTS)	Optativa II [<i>Optional II</i>] (6 ECTS)	Optativa III [<i>Optional III</i>] (4.5 ECTS)		

TABLE IIIb: Bachelor courses at ETSIT-UPV: *Electronic Systems* speciality

BACHELOR 3			BACHELOR 4	
Semester 1	Semester 2		Semester 1	Semester 2
Conversión y control de Energía [<i>Energy control and conversion</i>] (4.5 ECTS)	Aplicaciones de los microcontroladores [<i>Microcontroller applications</i>] (4.5 ECTS)		Microelectrónica analógica y mixta [<i>Mixed and analogic microelectronic</i>] (4.5 ECTS)	Optativa SE II [<i>Optional SE II</i>] (4.5 ECTS)
Fundamentos de transmisión [<i>Transmission basics</i>] (7.5 ECTS)	Fundamentos de VLSI [<i>VLSI basics</i>] (4.5 ECTS)		Procesadores digitales de la señal DSP [<i>DSP-Digital signal processors</i>] (4.5 ECTS)	Optativa SE III [<i>Optional SE III</i>] (4.5 ECTS)
Diseño de servicios telemáticos [<i>Design of telematic services</i>] (4.5 ECTS)	Sensores [<i>Sensors</i>] (4.5 ECTS)		Integración de sistemas digitales [<i>Digital system integration</i>] (6 ECTS)	Optativa IV [<i>Optional IV</i>] (4.5 ECTS)
Lengua extranjera [<i>Foreign language</i>] (4.5 ECTS)	Sistemas electrónicos de comunicaciones [<i>Communication electronic systems</i>] (6 ECTS)		Optativa SE I [<i>Optional SE I</i>] (4.5 ECTS)	Optativa V [<i>Optional V</i>] (4.5 ECTS)
Instrumentación y calidad [<i>Instrumentation and quality</i>] (6 ECTS)	Política y normativa de telecomunicación [<i>Telecommunication regulations</i>] (4.5 ECTS)		Optativa II [<i>Optional II</i>] (6 ECTS)	Trabajo Fin de Grado [<i>Bachelor Thesis</i>] (12 ECTS)
Electrónica analógica integrada [<i>Integrated analogic electronic</i>] (4.5 ECTS)	Optativa I [<i>Optional I</i>] (4.5 ECTS)		Optativa III [<i>Optional III</i>] (4.5 ECTS)	

TABLE IIIc: Bachelor courses at ETSIT-UPV: *Telematics* speciality

BACHELOR 3			BACHELOR 4	
Semester 1	Semester 2	Semester 1	Semester 2	Semester 2
Conversión y control de Energía [<i>Energy control and conversion</i>] (4.5 ECTS)	Redes públicas de acceso [<i>Public access networks</i>] (6 ECTS)	Redes corporativas de empresa [<i>Corporate networks</i>] (6 ECTS)	Aplicaciones telemáticas [<i>Telematic applications</i>] (4.5 ECTS)	
Fundamentos de transmisión [<i>Transmission basics</i>] (7.5 ECTS)	Redes de área local [<i>Local area networks</i>] (6 ECTS)	Redes públicas de transporte [<i>Public Access networks</i>] (6 ECTS)	Sistemas multimedia [<i>Multimedia systems</i>] (4.5 ECTS)	
Diseño de servicios telemáticos [<i>Design of telematic services</i>] (4.5 ECTS)	Sistemas telemáticos para la gestión de la información [<i>Telematic systems for the information management</i>] (6 ECTS)	Ingeniería de sistemas telemáticos [<i>Engineering of telematic systems</i>] (4.5 ECTS)	Optativa IV [<i>Optional IV</i>] (4.5 ECTS)	
Lengua extranjera [<i>Foreign language</i>] (4.5 ECTS)	Política y normativa de telecomunicación [<i>Telecommunication regulations</i>] (4.5 ECTS)	Seguridad [<i>Security</i>] (6 ECTS)	Optativa V [<i>Optional V</i>] (4.5 ECTS)	
Comunicación de datos [<i>Data communications</i>] (6 ECTS)	Optativa II [<i>Optional II</i>] (6 ECTS)	Optativa I [<i>Optional I</i>] (4.5 ECTS)	Trabajo Fin de Grado [<i>Bachelor Thesis</i>] (12 ECTS)	
Conmutación [Commutation] (4.5 ECTS)		Optativa III [<i>Optional III</i>] (4.5 ECTS)		

TABLE IV

DEPT	COORD	ANNEE	SEME	UV	Intitulé UV	Crédit	MODULE	TITRE	MOTS CLES	Durée
ALT	DF	4ème	SEM7		STAGE	30	EE5	Stage Direction des Systèmes d'Information	Développement et déploiement des applications - Exploitation des applications - disciplines de gestion de production. -Architecture globale des sites, des réseaux; gestion des biens et des ressources, gestion des incidents, gestion des sécurités, qualité de service, prévision des évolutions	18 semaines
			SEM7					Stage Réseaux Informatiques	rganiation de la gestion du réseau : Exploitation, disciplines de gestion : Architecture, développement des applications client et serveur, télédistribution des applications, gestion des inventaires matériel et logiciel, gestion des archivages, des incidents, des changements, des sécurités, des utilisateurs, prévision des évolutions, mesure et analyse de la qualité de service	18 semaines
			SEM7					Stage Organisation et technologies de systèmes de télécommunication	Orienté Exploitation et Disciplines de gestion - Aspects : technologiques, systèmes, métiers, organisation - Gestion : de l'exploitation, des inventaires matériel et logiciel, des incidents de la qualité de service, prévision des évolutions	
	BC	4ème	SEM8	A103	Gestion de projet	3	CE	Challenge entreprendre	Sensibilisation et initiation à la création d'entreprise. Travail d'équipe, gestion de projet	90 h
	FS	4ème	SEM8				SEE	Simulation d'entretien		
SHU	PM	4ème	SEM8				A46	Management de projet	cycle de vie, variantes stratégiques, tactiques, typologie, choix des hommes, trajectoire, diagnostic, jeux d'acteurs, mobilisation, négociation, créativité et animation	
LAN	AH	4ème	SEM8	LV2S8	2ème langue	2	LV2	Allemand ou Espagnol		45 h
SYSTCOM	CS	4ème				6	CNUM	Communication Numérique	Théorie de l'information, codage source, codage canal, Estimation statistique, détection, filtrage optimal, OFDM CDMA MIMO, Synthèse logique, VHDL	120 h
INFO	JPV	4ème				6	TSIO	Technologie Systèmes d'Information Ouvert	systèmes d'exploitation, réseaux, internet, base de données, web, développement Java	120 h

DEPT	COORD	ANNEE	SEMESTRE	UV	Intitulé UV	Crédits	MODULE	TITRE	MOTS CLES	Durée
		4ème	SEM8			6	UV St	UV Scientifique (tableau de synthèse)		120 h
Eco-Gestion		4ème	SEM8			6	UV MAME	UV MAME (voir tableau de synthèse)		120 h
INTER	DH	4ème	SEM8		Interculturel	1	IC	Interculturel		24 h

TABLE V

DEPT	COORD	ANNEE	SEMESTRE	UV	Intitulé UV	Crédits	MODULE	TITRE	MOTS CLES	Durée
INTER	DIV	5ème	SEM9			6	UV ST 1	UV St (voir tableau synthétique)		120 h
		5ème	SEM9			6	UV ST 2	UV St (voir tableau synthétique)		120 h
INTER	LB-CB	5ème	SEM9			6	PST	Projet scientifique et technologique	Autonomie et responsabilité, gestion de projet, technologie	60 h
		5ème	SEM9			6	UV ST 3	UV St (voir tableau synthétique)		120 h
INTER	LB-CB	5ème	SEM9				PST	Projet scientifique et technologique	Autonomie et responsabilité, gestion de projet, technologie	60 h
INTER	DIV	5ème	SEM10	PFE	STAGE	36	PFE	Projet de fin d'études	Mettre en œuvre les connaissances acquises dans les domaines scientifiques et techniques et de management; Acquérir de nouvelles connaissances et compétences. Apprendre à analyser et à situer un projet dans son environnement économique et stratégique	24 semaines

ANNEX III

**DESCRIPTION OF THE CREDIT AND GRADING
SYSTEM APPLIED AT EACH UNIVERSITY AND
THEIR EQUIVALENCE**

CREDIT SYSTEM

Both institutions use the same credit system, ECTS (European Credit Transfer System), so there is no equivalence on this.

GRADING SYSTEM

a) From Lille1 to ETSIT-UPV

$$C_{Spain} = \frac{(C_{France} - C_{xm}) \cdot (C_{em} - C_{em})}{C_{xm} - C_{xm}} + C_{em} \quad (1)$$

Where:

C_{Spain} =Grade in ETSIT-UPV	C_{France} =Grade in Lille1
C_{xm} =Minimum grade in Lille1: 0	C_{xm} =Maximum grade in Lille1: 20
C_{em} =Minimum grade in ETSIT-UPV: 0	C_{em} =Maximum grade in ETSIT-UPV: 10

b) From ETSIT-UPV to Lille1

$$C_{France} = \frac{(C_{Spain} - C_{xm}) \cdot (C_{em} - C_{em})}{C_{xm} - C_{xm}} + C_{em} \quad (1)$$

Where:

C_{Spain} =Grade in ETSIT-UPV	C_{France} =Grade in Lille1
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C_{xm} = Minimum grade in ETSIT-UPV: 0	C_{xM} = Maximum grade in ETSIT-UPV: 10
C_{em} = Minimum grade in Lille1: 0	C_{eM} = Maximum grade in Lille1: 20

ANNEX IV

**FOLLOW-UP AND CO-
ORDINATION COMMITTEE**

The coordination committee will consist of the following people:

FROM ETSIT-UPV	FROM LILLE1
The ETSIT-UPV Dean	The Lille1 Dean
The ETSIT-UPV vice-dean of International Relations	The Lille1 vice-dean of International Relations

ANNEX V

INFORME DE LA COMISIÓN ACADÉMICA DEL TÍTULO CORRESPONDIENTE

ANNEX VI

**RESOLUCIÓN DE LA
SUBCOMISIÓN DE
RECONOCIMIENTO DE
CRÉDITOS DE LA UPV
ACEPTANDO LA PROPUESTA
DE RECONOCIMIENTO DE
CRÉDITOS DE LOS ESTUDIOS
CURSADOS EN LA
UNIVERSIDAD DE ORIGEN**