POLITECNICO DI TORINO

UNIVERSITAT POLITÈCNICA DE VALÈNCIA

DOUBLE DEGREE AGREEMENT

between

POLITECNICO DI TORINO
Torino, Italy

and

UNIVERSITAT POLITÈCNICA DE VALÈNCIA

THIS AGREEMENT is made and entered into in Valencia, on the 6th day of June, 2016

Politecnico di Torino with legal address at 24 Corso Duca degli Abruzzi, Torino, Italy, represented in this agreement by its Rector Prof. Marco Gilli

and

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 Statues, approved by Valencian Regional Government Act no. 182/2011, of 25th November

taking into consideration:

- the existing links between Spain and Italy in the field of research as well as in training and education;
- the equivalence of their research and educational missions;
- the equivalent dimensions and means for achieving these goals;
- their mutual willingness in further intensifying these ties and especially encouraging the exchanges between European technical universities;
- the Double Degree agreement signed on 2010.

Agree

to enter into this Double Degree Agreement that is aimed in encouraging students to follow a defined study path that leads to two recognized Master's degree certificates, one from the student's home institution and one from the host institution.

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Reg-N: 016/471

ARTICLE 1 - AIM OF THE AGREEMENT

The purpose of this agreement is to establish a framework for collaboration between the UPV, Escuela Técnica Superior de Ingenieros de Telecomunicación (ETSIT), and Politecnico di Torino in order to establish the conditions that students from these institutions must fulfil to gain the academic degrees of "Máster Universitario en Ingeniería de Telecomunicación" from the ETSIT-UPV and "Master of Science in Communications and Computer Network Engineering" from the Politecnico di Torino.

Both parties agree to the following general forms of cooperation and general requirements for all students participating under this Agreement.

This document is a General Double Degree Agreement that will be implemented with dedicated separate documents attached as Addenda that will specify the names of the degrees that can be obtained, the curriculum, the students' mobility path, and any other regulation of the relevant Programme.

This Double Degree Agreement does not affect the existing Agreements defined before this documents was signed.

The Addenda, that shall be issued for each further involved programme/initiatives, can be signed by the appointed authorities or the equivalent representatives.

Article 2 – CONDITIONS

2.1 Number of Exchange Students

The number of students each institution may send and/or accept under this program is stated in the addenda and it can be yearly modified by mutual consultation.

2.2 Student Admission

The admission of students to the programme will be conducted in accordance with the following principles.

(i) The parties shall agree on the application procedure, including application deadlines, selection criteria and student quota as defined in the Addenda.
(ii) Students must meet the admission criteria of both institutions.
(iii) Students shall have a home institution and a host institution defined.
(iv) Students apply to the programme at their home institution that is responsible for screening the applications and providing the host institution with a list of selected and eligible candidates. The institution will examine the provided documents and will asses their suitability to the educational and training course students are applying for. The final decision on students admission or refusal, will than be sent to the partner university within the deadline stated in the Addendum.
(v) Students are selected and admitted to the programmes according to their academic results, and prerequisite requirements and motivations.
(vi) Prerequisites for the mobility include that students have successfully completed a necessary number of credits at the home institution. Details are specified in the Addenda.
(vii) Polito's admission language knowledge requirements:
Exchange students, who are going to apply to Polito are required to meet English and Italian language knowledge level as stated in:

http://International.polito.it/admission/exchange_programmes

On https://didattica.polito.it/cla/en/certificates/ are listed the accepted English Language Certifications.

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To prove their Italian and English knowledge both Certificates from an accredited institution or home University Statements are accepted.

On http://international.polito.it/admission/exchange_programmes are indicated the rules on the Italian/English language knowledge, and certificates, that Polito requires from foreign students enrolled on a first or second level program at Polito.

(viii) UPV's admission language knowledge requirements

Exchange students, who are going to attend courses held in Spanish language, are required to meet Spanish language knowledge level B1.

Exchange students, who are going to attend courses held in English language, are required to meet English language knowledge level B1.

Exchange students, who are going to attend courses held both in English and Spanish language, are required to meet both English and Spanish language knowledge level B1.

2.3 Rights and Status of the Students

Students participating under this Agreement shall be enrolled as degree students, they will have the rights and obligations as degree students in the respective institutions and will be entitled to participate in any introductory programme that may customarily be arranged for international students at the host institution.

2.4 Rights and obligations of the parties

The host institution will assist the incoming students in finding appropriate accommodation.

The host institution has the right to interrupt the double degree programme in case of unsatisfactory academic results. The student will then have to return to his/her university of origin, where the accumulated credits will be transferred in order to allow him/her to solely achieve the local diploma.

In case of partially o completely unsuccessful results at the end of the last semester in the host institution, the student will be allowed to extend their stay for a further year.

During the first year of extension, the financial conditions will be the same as those provided in the Article relevant to tuition fees and other costs of the agreement. After the first year, and for all following years of extension, students will pay tuition fees at the host university.

2.5 Study Plan and Course of Study

Each student will propose an individual study plan prepared according to the agreed curriculum for the total duration of the programme. This study plan will be reviewed and, if needed modified, prior to final admission. A written study contract (learning agreement) must be established and signed by both institutions prior to the student arrival at the host institution. This contract may be revised at any time in written form with seal of approval from the academic representatives of the two institutions.

Detailed conditions regarding the study programme, mobility programme as well as individual student agreements (learning agreements), shall be specified in the related Addenda.

2.6 Control of results

Partner institutions agree to operate along the principle of "mutual recognition" of exam results and each other's rules and regulations. Students registered in an institution will follow rules prescribed in the institution for a given year.

At the end of the mobility period the host institution shall send the home institution a copy of each student's transcript of records issued in English. The parties agree that exams/courses will be graded and credits will be awarded, according to the rules of the institution where the exam/course are carried out. Each institution grants the students credits transfer to the other institution according to the applicable rules, laws and regulations indicated in the relevant addendum.

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2.7 Master Degree Thesis

The Master Degree Thesis shall be performed according to the rules and regulations of the host institution. Co-supervision of the project is preferred. The subject Thesis must always receive an advance approval in writing from a member of the host as well as the home institution. It can be carried out in the host Institution as well as in other institutions except those located in the country of the home institution. Details are defined in the Addenda

2.8 Delivery of the academic degrees

Students successfully completing their studies of the Double degree programme obtain two degrees, one issued by the home institution and one issued by the host institution.

Politecnico di Torino Language knowledge requirements:

To obtain Polito's degree, students must hold an official English knowledge certificate of a level equal to or higher than IELTS 5.

On https://didattica.polito.it/cla/en/certificates it is indicated the list of accepted English certificates and equivalence chart.

To obtain Polito's degree, students are required to hold a certification proving their Italian knowledge required level.
On http://international.polito.it/admission/exchange_programmes/ are indicated the rules on the level of Italian and English languages knowledge required from foreign students enrolled on a first or second level program at Politecnico di Torino.

2.9 Tuition fees and other

During their stay at the host university, students will be enrolled in their home institution. For this purpose, the current regulations on grants will be applied in the respective countries. Students participating in the double degree program are exempt from paying tuition fees at the host institution. This exemption does not extend to fees/charges for the issue of the official degree.
In order to have access to certain services (transportation, sports, internet, etc.) at the host institution, hosted students will pay fees or public prices under the same conditions as the rest of students.

2.10 Health insurance

All the students must provide that they are covered by a health insurance during their mobility, including coverage for accident and illness.

2.11 Academic and administrative representatives

Each institution will appoint an academic and an administrative representative for the programme. These representatives will be responsible for following the programme and for ensuring that rules stated in this agreement are observed. The representatives will provide advices and other academic and administrative services to students participating under this Agreement. The addenda to this agreement shall state names and contact details of these representatives.

FULL NÚM. 4 / HOJA Nº 4

Article 3 - TERMS OF AGREEMENT

This Agreement shall come into effect on the day of signature by both institutions, and it is valid for 5 (five years). Should the Agreement be signed in two different dates, the into effect will refer to the latest date.

Both institutions may terminate this Agreement before its expiry, provided that written notice of the intent is given at least six months prior to termination. Commitments already in progress shall be fulfilled and students enlisted in the programme will at that time be allowed to complete it.

Article 4 - AMENDMENTS OR CHANGES

Amendments or changes to this Agreement shall be made in writing and signed by the duly authorised representatives of the institutions.

Article 5 – 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.

Date 02/01/2017

Rector
Politecnico di Torino
Prof. Marco Gilli

Date

Rector
Universidad Politécnica de Valencia
Prof. Francisco J. Mora Mas

UNIVERSITAT POLITÈCNICA VALÈNCIA - SECRETARIA GENERAL -

Addendum

to the

Double Degree Agreement

between

UNIVERSIDAD POLITÉCNICA DE VALENCIA (UPV)

and

POLITECNICO DI TORINO (POLITO)

I - Degrees in each university

UPV	
Degree programme at UPV	Master's Degree in Telecommunications Engineering (*Máster Universitario en Ingeniería de Telecomunicación*)
Degree awarded	Máster Universitario en Ingeniería de Telecomunicación
Language of instruction	Spanish (semesters 1 and 2) and English (semester 3 and also available for the Master Thesis)
UPV student entrance admission criteria	The admission criteria for UPV students in this Double Degree is to have achieved 60 ECTS (corresponding to the first 2 semesters) in the Master Telecommunication Engineering at UPV
Incoming Students Application Period	The period of application will be published yearly by UPV, but as an orientation it is around June
Selection Results	Selection results are sent usually within 45 days after the closure of the application period (which will be defined every year)
Special requirements	Students must provide a valid certification of level B1 in English and level A2 in Spanish
POLITO	
Degree programme at Polito	Master of Science in Communications and Computer Network Engineering
Degree awarded	Master of Science Degree in Communications and Computer Network Engineering
Language of instruction	English
Polito's student entrance admission criteria	Having been awarded a Bachelor Degree, being enrolled in the Master of science program in Communications and Computer Networks Engineering at Politecnico di Torino and having accumulated at least 44 mandatory ECTS of its 1st year.
Incoming students Polito's admission language knowledge requirements	Exchange students, who are going to apply to Polito are required to meet English and Italian language knowledge level as stated in: http://international.polito.it/admission/exchange_programmes On https://didattica.polito.it/cla/en/certificates/ are listed the accepted English Language Certifications. To prove their Italian and English knowledge both Certificates from an accredited institution or home University Statements are accepted. On http://international.polito.it/admission/exchange_programmes are indicated the rules on the Italian/English language knowledge, and certificates, that Polito requires from foreign students enrolled on a first or second level program at Polito.
Incoming students Application Period	Politecnico di Torino foresees 2 different application period according to the 2 semesters of lessons:

	Autumn Semester Application Period could be from end of April to July Spring Semester Application Period could be from November to December
Selection Results	Selection results are sent usually within 45 days after the closure of the application period (which will be defined every year).
Special requirements	To obtain Polito's degree, students must hold an official English knowledge certificate of a level equal to or higher than IELTS 5. On https://didattica.polito.it/cla/en/certificates it is indicated the list of accepted English certificates and equivalence chart. To obtain Polito's degree, students are required to hold a certification proving their Italian knowledge required level. On http://international.polito.it/admission/exchange_programmes/ are indicated the rules on the level of Italian and English languages knowledge required from foreign students enrolled on a first or second level program at Politecnico di Torino.
Number of students	Yearly 2 students from each side. The number of exchange students can be yearly modified by mutual consultation.

II.-Schematic Study Plan

Students will follow a studying programme consisting of 2 semesters at the home institution and 3 semesters abroad at the host institution.

	Year I		Year II		Year III
	Master		Master		Master
	Semester A	Semester B	I Sem	II Sem	I Sem
	SEP	FEB	SEP	FEB	SEP
UPV Students	UPV 60 ECTS		POLITO (90 ECTS) - Courses (60 ECTS) and - Master Degree Thesis (30 ECTS) co-supervised by UPV and Polito		
Polito's students	POLITO 60 ECTS		UPV (90 ECTS) - Courses (60 ECTS) and - Master Degree Thesis (30 ECTS) co-supervised by UPV and Polito		

Study Program

FIRST YEAR	
UPV students at UPV	**PoliTO students at POliTO**
Autumn Semester	**Autumn Semester**
Mandatory courses (30 ECTS)	*Mandatory courses (26 ECTS)*
PSCA: Procesamiento de señal en sistemas de comunicaciones y audiovisuales [Signal processing in communication systems and audiovisuals] (6 ECTS)	Computer network design and management (8 ECTS)
ESC: Equipos y subsistemas de comunicaciones [Communication devices and subsystems] (6 ECTS)	Signal processing: methods and algorithms (6 ECTS)
IST: Integración de servicios telemáticos [Integration of Telematic services] (6 ECTS)	Stochastic processes (6 ECTS)
CHS: Codiseño hardware-software [Hardware-Software co-design] (6 ECTS)	System programming (6 ECTS)
TIE: Transductores e instrumentación electrónica [Electronic intrumentation and transductors] (6 ECTS)	
Elective courses	*Elective courses*
No elective courses	No elective courses

Spring Semester	**Spring Semester**
Mandatory courses (30 ECTS)	*Mandatory courses (34 ECTS)*
IRT: Interconexión de redes de telecomunicación [Interconection of Telecommunication networks] (7,5 ECTS)	Devices for optical and microwave communications (6 ECTS) or Operational research (6 ECTS)
CEAF: Circuitos electrónicos de alta frecuencia [High frequency electronic circuits] (6 ECTS)	Mobile broadband network (6 ECTS)
GTPT: Gestión técnica y económica de proyectos de telecomunicación [Technical and economic management of telecommunication projects] (4,5 ECTS)	Project and laboratory on embedded communication systems (8 ECTS)
SYS: Sistemas y servicios de transmisión por radio [Radio transmission services and systems] (6 ECTS)	Image and video processing (6 ECTS)
RTD: Redes de transporte y distribución por cable [Cable networks for transport and distribution] (6 ECTS)	Information and communication theory (8 ECTS)
Elective courses	*Elective courses*
No elective courses	No elective courses

SECOND YEAR	
UPV students at POliTO	**PoliTO students at UPV**
Autumn Semester	**Autumn Semester**
Mandatory courses (38 ECTS)	*Mandatory courses (30 ECTS)*
Network measurement laboratory (6 ECTS) Or Signal processing and transmission laboratory (6 ECTS) Or Simulation of communication systems (6 ECTS)	IRS: Implantación de redes y servicios de telecomunicación [Implantation of telecommunication networks and services] (4,5 ECTS)
Switching technology for data centers (8 ECTS) Or Programmable electronic systems (8 ECTS) Or Satellite navigation systems (8 ECTS)	ITSI: Integración de tecnologías y sistemas en ingeniería de telecomunicación [Integration of technologies and systems in Telecommunication Engineering] (7,5 ECTS)
Network modelling and simulation (12 ECTS)	
Optical and wireless communications (12 ECTS)	
Elective courses	*Elective courses*
No elective courses	18 (ECTS)
Spring Semester	**Spring Semester**

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SECOND YEAR	
UPV students at POliTO	**PoliTO students at UPV**
Mandatory courses (24 ECTS)	*Mandatory courses (30 ECTS)*
Two of the following courses: - Communication systems (6 ECTS) - Computer system security (6 ECTS) - Mobile application development (6 ECTS)	SYS: Sistemas y servicios de transmisión por radio [Radio transmission services and systems] (6 ECTS)
Complex networks: theory and applications (6 ECTS)	RTD: Redes de transporte y distribución por cable [Cable networks for transport and distribution] (6 ECTS)
Radio planning (6 ECTS)	IRT: Interconexión de redes de telecomunicación [Interconection of Telecommunication networks] (7,5 ECTS)
	CEAF: Circuitos electrónicos de alta frecuencia [High frequency electronic circuits] (6 ECTS)
	GTPT: Gestión técnica y económica de proyectos de telecomunicación [Technical and economic management of telecommunication projects] (4,5 ECTS)
Master Thesis (30 ECTS) co-supervised by both partners	
These and other courses are chosen in accordance with student's mentor.	

Note :

1. The graduation thesis will have to be written in the local language or in English, under the supervision of one supervisor from the university of origin and one from the host university. The presentation of the Final project will take place at the host university preferably in front of the two supervisors or at least of one representative of the two universities. A video-conference connection can be allowed.
2. Upon request of the home university, he/she may discuss his/her thesis also in the university of origin.
3. Should changes occur on the above they will be promptly notified.

UNIVERSITAT POLITÈCNICA VALÈNCIA SERVICIO DE NORMATIVA E INSPECCIÓN

III. Description of the Credit and Grading System applied at each University and their equivalences

Studying programme consisting of 2 semesters at the home institution and 3 semesters abroad at the host institution.

CREDIT SYSTEM

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

GRADING SYSTEM

UPV GRADING SYSTEM

In the Spanish university system, courses are graded on a scale of 0 to 10 points, with the following qualitative equivalences:
From 0.0 to 4.9 □ "Suspenso" (Fail)
From 5.0 to 6.9 □ "Aprobado" (Pass)
From 7.0 to 8.9 □ "Notable" (Good)
From 9.0 to 10.0 □ "Sobresaliente" (Excellent)
M.H.: A special mention, "Matrícula de Honor" may be granted to up to 5% of the students in a group provided they have got a "sobresaliente".
To pass a course is necessary to get at least 5 points

POLITO GRADING SYSTEM

Polito ECTS statistical distribution of grades for each degree course is processed and updated yearly and made available at the following webpage https://didattica.polito.it/ECTS/grading_en.html

IV.-Follow-up and coordination committee

Contacts

UPV	POLITO
Academic responsible for the programme Dr. Alberto González Salvador *(director@etsit.upv.es)*	*Academic responsible for the programme* Prof. Andrea Carena (andrea.carena@polito.it)
Administrative: Vice-Dean of International Relations at Telecommunication School (ETSIT) at UPV (apit@upvnet.upv.es)	*Administrative:* International Relations Elisa Armando (international.relations@polito.it) Incoming Students Barbara Ballauri (incoming.students@polito.it) Outgoing students Francesca Brazzani (mobilita.studenti@polito.it)

Signatures

Date:	Date: 02/01/2017
For Universidad Politécnica de Valencia	For Politecnico di Torino
Prof. Dr. Francisco Mora Más Rector	Prof. Marco Gilli Rector
	Prof. Andrea Carena Coordinator