



UNIVERSITÀ  
DEGLI STUDI  
DI PADOVA



UNIVERSIDAD  
DE GRANADA

**CO-OPERATION AGREEMENT FOR THE IMPLEMENTATION OF  
A DOUBLE MASTER'S DEGREE PROGRAMME  
BETWEEN  
UNIVERSITÀ DEGLI STUDI DI PADOVA, ITALY  
AND  
UNIVERSIDAD DE GRANADA  
in the field of COGNITIVE NEUROSCIENCE**

### **Introduction**

Guided by the desire to strengthen the already existing relations and bearing in mind the common objective of contributing to the establishment of an academic framework supporting such a task in the context of the creation of the European Higher Education and Research Area, Università degli Studi di Padova, Italy, hereinafter referred to as UNIPD, with legal address in via VIII Febbraio 1848, 2, 35122 Padova - Italy, represented by its Rector Prof. Rosario Rizzuto, and the Universidad de Granada, Spain, hereinafter referred to as UGR, with legal address in Avenida del Hospicio, s/n, E-18071 Granada-Spain, represented by its Rector Prof. María Pilar Aranda Ramírez, per Decree 157/2015 dated 19<sup>th</sup> of June (BOJA number 119, June 22<sup>nd</sup>, 2015), Article 20.1 of the Organic Law of Universities 6/2001, dated 21<sup>st</sup> December, and Article 45,k) of the University of Granada Statutes

AGREE

to implement a two-year Double Master's Degree Programme in the field of Cognitive Neuroscience.

### **Article 1. Description of the Programme**

The proposed Double Degree Programme will be called **Cognitive Neuroscience and Clinical Neuropsychology/ Neurociencia Cognitiva y del Comportamiento** and will be based on a two-year second cycle degree (i.e. Master): one year spent in the home institution and one year in the host institution, according to a study plan jointly defined by the home and host institutions.

The main objective of the programme is to train students in the field of Cognitive Neuroscience with a multidisciplinary approach including psychology, neurology, psychiatry, neuropsychology, neuroimaging, statistics, with a focus on the applications of cognitive neuroscience and neuropsychology knowledge and methodology to endow them with the ability to tackle advanced problems using the most appropriate theoretical and applied instruments. The programme will aim to improve students' capacity to study, work and live in a multicultural environment and to upgrade and diversify their approaches to international relations.

Competences acquired during the programme will be:

- Advanced knowledge about the basic psychological processes and the neural bases underlying them.
- Knowledge about the different neuroimaging methods available to study human cognitive function and different basic and advanced analytical approaches.



- Practical knowledge in general psychological research techniques and in the specific methods and techniques of Cognitive Neuroscience and Neuropsychology.
- Acquisition of practical knowledge in techniques derived from Cognitive Neuroscience such as Neuropsychological evaluation and intervention.
- Knowledge of the "applicability" of psychological neuroscience scientific knowledge in the social, educational and health fields.

Upon successful completion of the Double Master's Degree Programme, students shall be awarded a Double Degree by UNIPD and UGR as defined below. Each Degree is recognized in the country in which it has been issued.

## Article 2. Legal framework and national qualifications

UGR and UNIPD undertake to run a teaching programme on the subject of Cognitive Neuroscience on a second-level degree course.

The Italian D.M. 47/2013 allows Italian Higher Education Institutions to develop joint study Programmes in cooperation with other Italian and non-Italian institutions.

The UGR Regulations on International Mobility define double degree programmes as structured mobility programmes which are governed by the said Regulations.

Upon successful completion of the two years Programme, the students shall be awarded the following Degrees:

- In Italy: **Laurea Magistrale (Master's Degree) in Cognitive Neuroscience and Clinical Neuropsychology**, Classe LM-51, D.M. 16/03/2007. According to the Bologna Process rules and recommendations and the Italian legislation, this degree corresponds to a second cycle degree D.M. 270/2004, Master level (120 ECTS credits), giving access to "Dottorato di ricerca", a third cycle degree equivalent to a PhD level in Europe.
- In Spain: **Máster Universitario (Master's Degree) en Neurociencia Cognitiva y del Comportamiento**, Real Decreto n. 1393/2007 and Spanish Registry of Universities, Centres and Degrees (RUCT) n. 4315561. This degree corresponds to a second cycle degree, Master level (60 ECTS credits), giving access to a third cycle degree equivalent to a PhD level in Europe.

## Article 3. Structure of the programme and student exchange plan

1. Studies leading to the Double Degree shall last two years totalling 120 ECTS credits. The students from the UGR will spend the first and fourth semesters in their home institution and the second and third ones at UNIPD, whereas UNIPD students will spend the first year of studies at the home institution and the second year of studies at UGR.
2. The language of instruction at both partner Universities will be English.
3. The study plan for students of both institutions is defined in Annex I. If substantial changes take place in the home study programme of the partner universities, Annex I may be amended before the beginning of each academic year, subject to approval by both universities.



4. Students must obtain minimum 60 ECTS credits at the host institution, according to the study plan defined in Annex I.
5. Students must prepare, present and defend a final dissertation according to what specified in the Art. 8.
6. The host Institution will provide mentoring for each student for the duration of the study period.

#### **Article 4. Admission requirements**

The following eligibility criteria must normally be fulfilled by students applying for the programme:

**a) For students having UNIPD as their home institution:**

1. To have successfully completed the first cycle of studies (equivalent to a First Level Degree/Bachelor Degree).
2. To be regularly enrolled in the Master's Degree Course in "Cognitive Neuroscience and clinical neuropsychology", having obtained at least 24 ECTS when the selection process takes place and 60 ECTS by the end of the academic year, before leaving for the Host institution.
3. Proficiency in English (B2). Students must have a certification proving their English knowledge. English mother tongue students, or students who have attended a first-cycle degree course in English, do not need to present a language certificate.

**b) For students having UGR as their home institution:**

1. To have successfully completed the first cycle of studies (equivalent to a First Level Degree/Bachelor Degree).
2. To be regularly enrolled in the Máster Universitario (Master's Degree) en "Neurociencia Cognitiva y del Comportamiento", having obtained at least 12 ECTS when the selection process takes place and 28 ECTS by the end of the first semester of the academic year, before leaving for the Host institution.
3. Proficiency in English (B2). Students must have a certification proving their English knowledge in accordance with UGR regulations on language competence accreditation: <http://internacional.ugr.es/pages/politica-linguistica/tabla>

Notwithstanding these general criteria, the Academic Boards at home and host institution may consider the admission of students whose academic profile is of particular interest to the programme despite not fulfilling all conditions. These exceptional cases require full agreement of both institutions and cannot apply to requirement (1) above.

#### **Article 5. Student selection process**

The parties may recruit up to five students per institution per academic year.



The selection of exchange students is based on shared responsibility between both parties, as follows:

1. The home institution makes preliminary selection of candidates, followed by an interview.
2. The final decision about the acceptance of the exchange students is taken by the host institution. The process will be done in agreement between the two parties.
3. The criteria for selection will be based on academic records and motivation. Knowledge of the language of the country of the host Institution may be considered an advantage.
4. Care will be taken by both Academic Boards to select only those students who shall presumably complete their Double Degree studies.

#### **Article 6. Language policy**

UNIPD undertakes to offer UGR students the opportunity to attend an Italian language course as part of the teaching offered as the host institution. UGR undertakes to offer Italian students the opportunity to benefit from reduced fees for a Spanish language course as part of the teaching offered as host institution.

#### **Article 7. Academic progress and assessment of student learning**

Assessment is performed at the same University where the course units have been attended, and follows local regulations and methods of assessment.

The ECTS credits for a Course Unit are gained if the student passes the final evaluation specific to each course, according to the local rules on pass/fail.

Both parties fully and automatically recognize courses and related ECTS credits, which are developed for the master, as well as examinations passed at the partner institution.

At both institutions grades will be awarded according to the national system and converted according to ECTS guidelines and local regulations.

#### **Article 8. Dissertation**

With the purpose of strengthening the scientific cooperation between both institutions, the dissertations will address, whenever possible, problems in areas of common interest to the two institutions and they will be organized as follows:

1. The dissertation may be written under the supervision of a lecturer belonging to either Home or Host institution.
2. The final dissertation will be considered a joint requirement and will be registered at both institutions. The assessment procedures may be held at either institution in accordance with its regulations, but will always involve a member of the partner institution as a full member of the committee/board, thus guaranteeing the joint nature of this course element. This participation may be through videoconference.



3. The dissertation shall be written in English.

#### **Article 9. Extension of the mobility period**

Should a student not complete the expected study plan within his/her mobility year, s/he will be allowed to extend his/her stay for a further semester. During this semester, the financial conditions will be the same as those provided in the Art. 10. The Academic Boards of both Institutions will jointly decide whether to grant the extension or not.

For any further additional periods of extension, the student will pay tuition fees at the Host university.

#### **Article 10. Enrolment, tuition fees, insurance and services to students**

1. The home Institution shall ensure that students have the necessary valid insurance policies before their departure.
2. Students are responsible for all their travel, accommodation and living expenses. The two universities agree to seek external funding for the mobility periods included in this programme, in particular under the Erasmus+ programme.
3. Students participating in the Double Degree Programme shall only pay tuition fees to their home institution. Only supplementary fees (e.g. revenue stamp, regional fees for accommodation, additional compulsory insurance, issue of degree certificates) shall be paid to the host institution.
4. The host institution undertakes to facilitate the arrival of the students and to put at their disposal all the existing services and study grants, if available.

#### **Article 11. Recognition Mechanism and Final Degree**

Both parties fully and automatically recognize courses, which are developed for the Master course, as well as assessment taken at the partner institution, according to Art.7 of the present agreement.

Upon successful completion of the double degree study programme as defined in the present agreement and validated by the Academic Board, students will be awarded a Double Degree, according to what specified in Art. 2 and a Diploma Supplement. Under no circumstances may a student be awarded the degree at the Host institution without first having obtained the degree from his/her Home institution.

Each institution will issue its national Diploma and a Diploma Supplement describing the double degree programme followed.

#### **Article 12. Cooperation aspects and monitoring**

Both parties undertake to facilitate a constant exchange of information and transparent administrative procedures. The parties undertake to send the required documentation of students taking part in the programme leading to the awarding of the Double Master's Degree. In particular the parties will produce Transcripts of Records of the exchange students reporting the marks according to the national grading system.



Each partner should appoint a local academic coordinator for the students who will be responsible for ensuring that the requirements of the home Universities are met.

Both parties shall make all the possible efforts, namely before national and European/International institutions and companies, to obtain the maximum financial support for the programme.

In addition, the local academic coordinators at each institution will meet on a regular basis in order to:

- Assess the pertinence of the teaching programmes in both institutions.
- Report on the cooperation and the academic results of the students.
- Propose new initiatives.

### **Article 13. Quality assurance**

The Partner Universities are part of the national university system of their respective countries, as a consequence their activity is evaluated on a regular basis by external certified bodies.

As far as the Double Degree Programme is concerned, an Internal Quality Assurance Protocol will be operating, managed jointly by both Partners.

Evaluations by students will be organised.

Based on the information gathered, the Academic Board will ensure permanent revising, updating and improvement of the programme.

### **Article 14. Promotion of the programme**

The promotion of the programme is the responsibility of both parties.

Each member institution agrees to the use of its name and logo for the purposes of promotional material, programme literature and other documentation of the programme.

### **Article 15. Financial obligations**

No financial obligations shall arise out of this agreement for either party.

### **Article 16. Conflict Resolution**

The parties shall resolve any controversy arising from the interpretation of these terms and conditions by mutual agreement.

### **Article 17. General Provisions**

The present agreement will take effect after the signature by the legal representative of both contracting parties and will be valid for four years.

This agreement may be amended by mutual consent following the same procedure that has been followed for the first signature.

Either party may terminate the present agreement with six months' written advance notice. In the event of the agreement being terminated, any activities in progress shall be run to completion and both parties must ensure that enrolled students can complete the Double Degree Programme.



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### Article 18

Two originals of the present agreement shall be signed, one for each of the signatories of the contract. Each original shall have equal validity.

Date

For the Università degli Studi di Padova,

For the Universidad de Granada

The Rector  
Prof. Rosario Rizzuto

The Rector  
Prof. María Pilar Aranda Ramírez



Study Programme From UNIPD to UGR

**CURRICULUM "GRANADA" (for Italian students going to Granada University)**

COURSE UNIT	CFU/ECTS	no. hours	Compulsory course units	Teaching language	Grading System
<b>FIRST YEAR COMPULSORY COURSE UNITS (In Padova)</b>					
STATISTICS FOR BRAIN AND COGNITIVE SCIENCES	6	42	YES	English	Numerical Grade
NEW CONCEPTS IN DEVELOPMENTAL PSYCHOLOGY	6	42	YES	English	Numerical Grade
ADVANCED SOCIAL PSYCHOLOGY AND SOCIAL NEUROSCIENCE	6	42	YES	English	Numerical Grade
<b>FIRST YEAR OPTIONAL UNITS (students should choose 1 of the following course units)</b>					
HUMAN ELECTROPHYSIOLOGY	6	42	NO	English	Numerical Grade
COGNITIVE NEUROSCIENCE OF ACTION	6	42	NO	English	Numerical Grade
NEW TRENDS IN NEUROSCIENCE	6	42	NO	English	Numerical Grade
NEUROPSYCHOLOGICAL ASSESSMENT AND REHABILITATION	6	42	NO	English	Numerical Grade
<b>FIRST YEAR OPTIONAL UNITS (students should choose 1 of the following course units)</b>					
CLINICAL NEUROPSYCHOLOGY	6	42	NO	English	Numerical Grade
AFFECTIVE NEUROSCIENCE AND PSYCHOPATHOLOGY	6	42	NO	English	Numerical Grade
<b>FIRST YEAR OPTIONAL UNITS (students should choose 2 of the following course units)</b>					
NEUROLOGY	6	42	NO	English	Numerical Grade
PSYCHIATRY AND PSYCHOPHARMACOLOGY	6	42	NO	English	Numerical Grade
NEUROSURGERY	6	42	NO	English	Numerical Grade
NEURAL NETWORKS AND DEEP LEARNING	6	42	NO	English	Numerical Grade
MACHINE LEARNING FOR BRAIN AND COGNITION	6	42	NO	English	Numerical Grade
NEW TRENDS IN NEUROSCIENCE	6	42	NO	English	Numerical Grade
NEW TECHNOLOGIES AND HUMAN BEHAVIOUR	6	42	NO	English	Numerical Grade
ANIMAL MODELS IN NEUROBIOLOGY	6	42	NO	English	Numerical Grade
<b>12 OPTIONAL CREDITS (CFU/ECTS)</b>					
<b>FIRST YEAR LABORATORIES-students should choose among the following labs, 6 ECTS in total:</b>					
FORENSIC NEUROSCIENCE	2	14	NO	English	Pass/Fail
NONINVASIVE BRAIN STIMULATION	2	14	NO	English	Pass/Fail
ELECTROENCEPHALOGRAPHIC RECORDING AND ANALYSIS	2	14	NO	English	Pass/Fail
CLINICAL NEUROPSYCHOLOGY ASSESSMENT	2	14	NO	English	Pass/Fail
KINEMATIC RECORDINGS OF MOVEMENT	2	14	NO	English	Pass/Fail
PSYCHOPHYSIOLOGICAL ASSESSMENT	2	14	NO	English	Pass/Fail
FUNCTIONAL NEAR INFRARED SPECTROSCOPY TECHNIQUE	2	14	NO	English	Pass/Fail
MATLAB AND COMPUTATIONAL COGNITION	4	28	NO	English	Pass/Fail

60 ECTS

**SECOND YEAR COMPULSORY COURSE UNITS (in Granada)**

METHODOLOGY IN COGNITIVE NEUROSCIENCE: BASIC AND APPLIED RESEARCH	4		YES	English	Numerical Grade
COGNITIVE NEUROSCIENCE	4		YES	English	Numerical Grade
NEUROPSYCHOLOGY	4		YES	English	Numerical Grade
ATTENTION	4		YES	English	Numerical Grade
MEMORY AND REPRESENTATION	4		YES	English	Numerical Grade





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JUDGMENT AND DECISION MAKING	4		YES	English	Numerical Grade	
NEUROANATOMY AND FUNCTIONAL NEUROIMAGING	4		YES	English	Numerical Grade	
CURRENT PERSPECTIVES IN PSYCHOLOGY AND NEUROSCIENCE	5		YES	English	Numerical Grade	
<b>TRAINING AND LABORATORIES</b>	15	375	YES	English	Numerical Grade	
<b>FINAL DISSERTATION ***</b>	12	300	YES	English	Numerical Grade	<b>60 ECTS</b>



**ANNEX I: Cognitive Neuroscience and Clinical Neuropsychology/ Cognitive and Behavioural Neuroscience Study Programme From UGR to UNIPD**

**CURRICULUM "UNIPD" (for Spanish students going to Padova University)**

COURSE UNIT	CFU/ECTS	no. hours	Compulsory course units	Teaching language	Grading System
<b>FIRST SEMESTER IN GRANADA</b>					
<b>METHODOLOGY COURSES (COMPULSORY TO TAKE 2 OUT OF 4)</b>					
ADVANCED EXPERIMENTAL DESIGN	4	30	NO	Spanish	Numerical Grade
METHODOLOGY IN COGNITIVE NEUROSCIENCE: BASIC AND APPLIED RESEARCH	4	30	NO	English/Spanish	Numerical Grade
NEUROANATOMY AND FUNCTIONAL NEUROIMAGING	4	30	NO	English/Spanish	Numerical Grade
NEUROPSYCHOLOGICAL EVALUATION	4	30	NO	Spanish	Numerical Grade
<b>OPTIONAL COURSE UNITS (students should choose 5 of the following course units)</b>					
LEARNING, COGNITION AND BEHAVIOR	4	30	NO	Spanish	Numerical Grade
ATTENTION	4	30	NO	English/Spanish	Numerical Grade
EMOTION	4	30	NO	Spanish	Numerical Grade
JUDGMENT AND DECISION-MAKING	4	30	NO	English/Spanish	Numerical Grade
LANGUAGE	4	30	NO	English/Spanish	Numerical Grade
MEMORY AND REPRESENTATION	4	30	NO	English/Spanish	Numerical Grade
ANIMAL MODELS IN PSYCHOLOGY AND NEUROSCIENCES	4	30	NO	English/Spanish	Numerical Grade
COGNITIVE NEUROSCIENCE	4	30	NO	English/Spanish	Numerical Grade
NEUROERGONOMICS	4	30	NO	English/Spanish	Numerical Grade
NEUROPSYCHOLOGY	4	30	NO	English/Spanish	Numerical Grade
PERCEPTION	4	30	NO	English/Spanish	Numerical Grade
NEURAL AND BEHAVIORAL PLASTICITY	4	30	NO	Spanish	Numerical Grade
IMMUNOENDOCRINE REGULATION OF BEHAVIOUR	4	30	NO	Spanish	Numerical Grade
<b>FOURTH SEMESTER IN GRANADA</b>					
<b>SEMINARS</b>					
NEW PERSPECTIVES IN PSYCHOLOGY AND NEUROSCIENCES	5	36	YES	English	Numerical Grade
<b>PRATICAL LABORATORY AND FINAL DISSERTATION</b>					
TRAINING AND LABORATORIES	15	375	YES	English	Numerical Grade
FINAL DISSERTATION ***	12	300	YES	English	Numerical Grade
					<b>60 ECTS</b>

<b>SECOND AND THIRD SEMESTERS IN PADOVA</b>					
<b>COMPULSORY COURSE UNITS</b>					
STATISTICS FOR BRAIN AND COGNITIVE SCIENCES	6	42	YES	English	Numerical Grade
NEW CONCEPTS IN DEVELOPMENTAL PSYCHOLOGY	6	42	YES	English	Numerical Grade
ADVANCED SOCIAL PSYCHOLOGY AND SOCIAL NEUROSCIENCE	6	42	YES	English	Numerical Grade
<b>OPTIONAL COURSE UNITS (students should choose 1 of the following course units)</b>					
HUMAN ELECTROPHYSIOLOGY	6	42	NO	English	Numerical Grade



COGNITIVE NEUROSCIENCE OF ACTION	6	42	NO	English	Numerical Grade
NEW TRENDS IN NEUROSCIENCE	6	42	NO	English	Numerical Grade
NEUROPSYCHOLOGICAL ASSESSEMENT AND	6	42	NO	English	Numerical Grade
<b>OPTIONAL COURSE UNITS (students should choose 1 of the following course units)</b>					
CLINICAL NEUROPSYCHOLOGY	6	42	NO	English	Numerical Grade
AFFECTIVE NEUROSCIENCE AND PSYCHOPATHOLOGY	6	42	NO	English	Numerical Grade
<b>OPTIONAL COURSE UNITS (students should choose 2 of the following course units)</b>					
NEUROLOGY	6	42	NO	English	Numerical Grade
PSYCHIATRY AND PSYCHOPHARMACOLOGY	6	42	NO	English	Numerical Grade
NEUROSURGERY	6	42	NO	English	Numerical Grade
NEURAL NETWORKS AND DEEP LEARNING	6	42	NO	English	Numerical Grade
MACHINE LEARNING FOR BRAIN AND COGNITIO	6	42	NO	English	Numerical Grade
NEW TRENDS IN NEUROSCIENCE	6	42	NO	English	Numerical Grade
NEW TECHNOLOGIES AND HUMAN BEHAVIOUR	6	42	NO	English	Numerical Grade
ANIMAL MODELS IN NEUROBIOLOGY	6	42	NO	English	Numerical Grade

**12 OPTIONAL CREDITS (CFU/ECTS)\*\***

<b>LABORATORIES (students should choose among the following labs 6 CFU in total):</b>					
FORENSIC NEUROSCIENCE	2	14	NO	English	Pass/Fail
NONINVASIVE BRAIN STIMULATION	2	14	NO	English	Pass/Fail
ELECTROENCEPHALOGRAPHIC RECORDING AND ANALYSIS	2	14	NO	English	Pass/Fail
CLINICAL NEUROPSYCHOLOGY ASSESSMENT	2	14	NO	English	Pass/Fail
KINEMATIC RECORDINGS OF MOVEMENT	2	14	NO	English	Pass/Fail
PSYCHOPHYSIOLOGICAL ASSESSMENT	2	14	NO	English	Pass/Fail
FUNCTIONAL NEAR INFRARED SPECTROSCOPY TECHNIQUE	2	14	NO	English	Pass/Fail
MATLAB AND COMPUTATIONAL COGNITION	4	28	NO	English	Pass/Fail

**60 ECTS**

- Master degree (second cycle) students may choose course units worth optional credits from the current Master degree programmes at the University of Padova (including those belonging to the School of Psychology) as well as from their degree programme. In addition, students may choose course units worth optional credits from the Bachelor's degree programmes (first cycle) with the exception of those belonging to the School of Psychology.

- In any case, students cannot choose course units they have already taken, or those with the same learning outcomes.

- A Study Plan including course units worth optional credits chosen among other degree programmes will have to be submitted to the Chair of the degree programme's approval.