

INTERUNIVERSITARY COOPERATION AGREEMENT FOR THE GRANTING OF A MASTER'S LEVEL DOUBLE DEGREE PROGRAMME

between

INSTITUTO SUPERIOR TÉCNICO (PORTUGAL) (hereafter referred to as “Técnico Lisboa”), represented by its President, **Professor Rogério Colaço**, Av. Rovisco Pais 1, 1049-001 Lisboa, Portugal

and

University of Sassari (hereafter referred to as “UNISS”), represented by its Rector, **Professor Gavino Mariotti**, Piazza Università 21 - 07100 Sassari, Italy

jointly referred to as “the Parties” and severally “a/the Party”

Considering that

- It is in the interest of both Universities to build a lasting relationship of cooperation and to create and develop a system of academic exchange;
- According to Ministerial Decree 270/04, art. 3, paragraph 10, and on the basis of specific agreements, Italian Universities can award joint degrees with other Italian or foreign universities;
- Art. 6 of the Sassari University Academic Regulations provides the possibility of issuing a Degree in collaboration with other Universities, including foreign ones, as a part of the internationalization activity included in the Strategic Plan of the University;
- Técnico Lisboa and the Dipartimento di Scienze Chimiche, Fisiche, Matematiche e Naturali of the University of Sassari have a common interest in creating an integrated study programme and awarding enrolled students with qualifications issued by the two Partner universities, as described in this agreement;

It is agreed and stipulated as follows:

Article 1 – Objective of the Agreement

1. The Parties agree to establish an integrated study programme in the field of ChemTech (hereinafter referred to as “the Double Degree Programme” or “the Programme”) to be developed and provided by both Parties.
2. The Double Degree Programme shall be based and developed under the requirements of the national legislation in force in Portugal and of Italy, as well as under the Bologna process regulations and the Partner university's internal regulations and procedures.
3. At UNISS, the Programme shall be a part of the second-cycle degree “*Laurea Magistrale in Scienze Chimiche (classe LM-54)*”. At Técnico Lisboa, the Programme shall be a part of the second-level degree “*Molecular Science and Engineering*”.

Article 2 - Admission requirements and study program

1. The Programme shall be a two-year programme. It shall comprise 120 credits (ECTS) and include international student mobility for 1 year, during the 2nd year of the programme. The enrolment of UNISS students in the master's degree programme “*Laurea Magistrale in Scienze Chimiche (classe LM-54)*” and the enrolment of Técnico Lisboa students in the master's degree programme degree “*Molecular Science and Engineering*” shall be a requirement for admission to the **Double Degree Programme (DDP)**.
2. A student who completes the Programme shall be awarded two diplomas: of the University of Sassari and of Técnico Lisboa. A diploma supplement shall contain a list of all marks gained during the Programme and a summary of the effects of education.

3. According to the study plan, jointly defined and attached to this Agreement (see Annex 1), every student shall study at his/her home university, and earn relative credits, for 1 year, during the 2nd year of the programme.), the language of that university being the language of instruction, whereas every student shall study abroad, and earn relative credits, for 1 year, during the 2nd year of the programme, the language of the partner university being the language of instruction.
4. The number of students shall be agreed for each academic year in accordance with the regulations at each university and by mutual consent between the two institutions. The goal of this program is to exchange on average the same number of students in both directions.

Article 3 - Selection of participating students

1. Each university is responsible for the selection of its participating students under the conditions stated below and those established by the Parties.
2. The selection of DDP participants shall be based on students' academic records, their language proficiency, and their fulfilment of other requirements set by the home university and agreed by the Parties.
3. A complete list of the students selected for the DDP, together with all documents needed for the enrolment at the partner Institution, must be sent to Partner by April 15th of the previous academic year.

Article 4 – Master's thesis and final examination

1. The master thesis will be carried out at the host university.
2. The Master's thesis must be carried out under the joint supervision of a Faculty member of the host institution and a faculty member of the home institution. Deviations from this provision may be decided by mutual and written consent between the two institutions on a case-by-case basis.
3. The Master's thesis is written in English.
4. The thesis defense jury or the final diploma examination also incorporates members from both universities.
5. The successful completion of the thesis defense or diploma examination at the host university shall result in the award of the equivalent qualification by the home university.
6. The host university shall provide the home university with all the necessary documents for the award of its own degree qualification in due time.

Article 5 - Use of ECTS for credits transfer and grading system

1. The Parties agree to use the ECTS credit units and grading system.
2. The Parties agree that the credit units (ECTS credits) successfully earned by the DDP students at the Partner university will be fully transferable to the home university.
3. The host University shall provide to each DDP student a Transcript of Records reporting his/her attended classes and his/her academic performance/results and the number of credit units (ECTS credits) obtained at the host university.
4. The marks awarded at the host university shall be notified to the home university within four weeks after the end of the mobility period.
5. The grading system conversion table applied at the Host University is defined by the Parties in the Annex 2, and can be modified on yearly basis.

Article 6 - Duties of the Parties and management of the Programme

1. The Parties will be responsible for the overall coordination and management of the programme. They will consult each other whenever they deem it appropriate in order to guarantee the quality assurance of the programme and in order to resolve any difficulties connected with the correct development of the programme.
2. Each of the Parties shall:
 - a. recruit students for the Programme;
 - b. administer examinations and credits as provided in the curricula of courses taught at the university;
 - c. keep Programme study records;
 - d. supervise the correctness of the teaching process;

- e. ensure highly qualified teaching staff;
 - f. ensure teaching rooms and equipped laboratories as required for the conduct of the courses;
 - g. include information about the Programme on its website and in the promotional materials of the university;
 - h. ensure that students have access to the facilities, library collections, and databases on the terms in effect at the university.
3. A Bilateral Committee will be established and will consist of at least two academic representatives from each university, appointed by each partner university, and will act in consultation with the Department of both partner universities.
- Decision will be made jointly by the representatives of the Parties in the Bilateral Committee. Meetings of the Committee may also be attended by other academics or administrative personnel of the participating Universities. The Bilateral Committee will meet once a year as a rule: the meetings can take place also through conference call or video conference or e-mail, etc.
4. Each of the Parties will designate own Project Coordinator, and indicates his name in Annex 1 of this agreement. The Project Coordinator:
- ensure compliance of obligations by art. 6.2
 - convoke and chair the Bilateral Committee, by art. 6.3
 - check and update the annexes to this agreement at least annually
5. The host institution will support students in preparing the documents needed to obtain the visa (if applicable) and in finding accommodation. The responsible offices of the institutions have the right to ask the incoming students to respect the regulations of the host institution, and reserve the right to ask the students to return to the home institution if the students refuse to follow the regulation of the host institution.
6. Each Institution will maintain policies of insurance, indemnity and safety for staff and students within the law of its own country.

Article 7 - Tuition Fees

1. This Agreement shall not give rise to any financial obligations on the part of either Party.
2. Students have to pay their fees at the home university; no additional fees will be paid at the host university.
3. Exchange students are not exempted from various university and student fees and costs for additional services that result from their sojourn at the host institution.
4. All travel, living, and miscellaneous expenses incurred by attending host institution, including tuition, fees, health insurance, meals, transportation, and lodging, shall be the responsibility of the student.
5. All faculty staff members are required to ensure that funds are available for the activities planned by both parties in the framework of the cooperation, and those for the purpose of finding scholarships for the students' profiles.

Article 8 - Programme promotion and Use of Name/Logo

1. Each of the Parties hereto agrees that its logo and name could be used for the promotion of the Programme in compliance with national legislation on intellectual property rights of both countries.
2. Both Parties agree to promote the Programme in their catalogues, websites and through other appropriate ways.

Article 9 - Quality assurance

The institutions will cooperate in order to set an integrated approach to quality assurance of the joint programme. Standards and guidelines for Quality assurance in the European Higher Education Area will be applied.

Art. 10 - Controversies

1. The resolution of any dispute, which may arise in the interpretation and implementation of the present agreement, will be dealt in an amicable way.
2. Should this manner fail, the partners refer to an arbitration board composed of a member appointed by each partner university and a member chosen by mutual agreement. Should copies in languages other than English be required under local rules or regulations, the English version will apply for interpretation or dispute purposes.

Art. 11 - Privacy

1. Personal data processing (DATA) operations are carried out - as defined in Italian M.D. 976/2014, M.D. 1047/2017, M.D. 289/2021 and related memos and implementation notes; and EU Regulation 2016/679; and Sardinian R.L. 03/2009 as amended and supplemented.
2. Strict compliance with the rules on the protection of personal data is an assumption of this contract.
3. In accordance with EU Regulation 2016/679, each PARTY may appear in the present list as CONTROLLER
4. The intellectual property rights over the results of the research activity developed within this Agreement shall be ruled in accordance with the applicable legislation of the countries of the home and host institutions.
5. In case any invention, work or creation is developed as a result of the research activity carried out within the present Agreement, the provisions set out in this Clause shall apply.
6. The intellectual property rights over any invention, work or creation developed as a result of the research activity carried out within the present Agreement shall vest in the institution whose inventors, authors or creators have contributed to the development of such invention, work or creation and the owner institution shall be free to use and exploit it as it deems fit.
7. Where inventors, authors or creators from both institutions have jointly contributed to the development of the invention, work or creation, the intellectual property rights over such invention, work or creation shall be jointly owned by the institutions. Their share of ownership shall reflect the contributions made by their inventors, authors or creators. If the percentages of contribution cannot be ascertained, the shares of ownership of the institutions shall be considered equal.
8. For the purposes of this Clause, the student shall be considered inventor, author and creator of their home institution.
9. The institutions shall communicate reciprocally in case they are informed by the respective inventors, authors or creators of the existence of results susceptible of registration.
10. In case of joint ownership, as defined in accordance with paragraph 4, the institutions shall conclude a joint ownership agreement where all matters related to the submission, maintenance, costs, licensing, transfer and own use of the intellectual property rights shall be defined. The joint owners shall refrain from any and all acts that may prevent the constitution, defence and exploitation of the rights until such agreement is concluded. They shall namely refrain from their commercial exploitation and disclosure.
11. Copyright over the MSc dissertation developed in the scope of the MSc Programme shall be vested exclusively in the student.
12. The final written dissertation developed in the scope of the MSc Programme shall not contain missing fragments and must consist in a coherent text, all of this aiming at the dissertation fulfilling the following requirements: (1) being the basis for the attribution of the degree; (2) being an adequate public statement of the reasons for the attribution of degree.
13. Information that one of the parties deems as confidential shall be included in a confidential annex to the written dissertation, and distributed to the jury members only.

14. The institutions commit themselves to filing the confidential annexes at a reserved deposit for a minimum period of five years, and this period may be extended without restrictions, except for those arising from the general law, to any other period, as long as that is required by one of the parties.

Article 12 -Terms and duration of the agreement

1. This agreement is valid for a period of **five years** starting from the date of signature and it can be reviewed and renewed by mutual agreement of the Parties.
2. The Parties may decide to jointly cancel this agreement and develop a new agreement in order to implement the suggestions provided by the Bilateral Committee. All activities in effect at the time of such notices shall be permitted to be completed in the same manner as if no such notices were given.
3. It may be terminated at any time by either party upon 90 (ninety) days written notice to the other party. Termination of the agreement is subject to the completion of the activities in progress.
4. The resolution of any dispute, which may arise in the interpretation and implementation of the present agreement, will be dealt in an amicable way. Should this manner fail, the partners refer to an arbitration board composed of a member appointed by each partner university and a member chosen by mutual agreement. Should copies in languages other than English be required under local rules or regulations, the English version will apply for interpretation or dispute purposes.
5. Laws and regulations of each country will take precedence over any clauses or language of this agreement.
6. The present agreement is drawn up in English in four copies, two copies for each Party.

Date: November 9, 2023

Date: _____

University of Sassari Rector F.to Professor Gavino Mariotti _____	Instituto Superior Técnico President F.to Professor Rogério Colaço _____
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Annex 1, valid from the academic year 2025/2026 and until the expiry of the agreement

Double degree Programme between
Università degli Studi di Sassari (Italy) and Instituto Superior Técnico (Portugal)
Master In ChemTech
Laurea Magistrale in Scienze Chimiche (classe LM-54)
Master in Molecular Science and Engineering

The objectives of the Double Degree (Master) in ChemTech are the following:

the course aims to train graduates with a solid basic and professional preparation aimed at employment in the main sectors of Chemistry.

Learning outcomes:

- a solid basic cultural preparation and a high scientific and operational preparation;
- a good command of the scientific method of investigation;
- a good knowledge of support mathematical and IT tools
- to work independently, even assuming high responsibility for projects and structures

Career prospects:

Graduates will carry out activities for the promotion and development of scientific and technological innovation, as well as management and design of technologies; they will also be able to exercise functions of high responsibility in the sectors of industry, the environment, health, cultural heritage and public administration

The two-year Double Degree Programme includes 120 ECTS (each credit being equivalent to 25-30 hours of work). The Double Degree Programme refers to the two courses already available at the University of Sassari and Instituto Superior Técnico, namely, the “Corso di Laurea Magistrale in Scienze Chimiche (classe LM-54)” course held by the University of Sassari, and “Master in Molecular Science and Engineering” course held by Instituto Superior Técnico

The Master's Programme lasts four semesters.

In order to be awarded the Double Degree qualification, students are required to spend one full and continuous academic year as international mobility students. During the international mobility window, students shall cover the costs of their travel and stays and are required to earn at least 60 ECTS, for the mobility to be regarded as fully complete. Incomplete mobility windows shall not be regarded as passed. However, the academic board may reconsider the incomplete mobility window programme and request to the student, for the sake of recognition, to attend and pass additional academic activities. Students may apply for the award of grants or scholarships offered by HEI's, local, national or international organizations, including mobility programmes, such as Erasmus+.

Students may also apply to spend additional semesters to attend courses at other universities in addition to the 2 mandatory international semesters.

Upon the successful completion of all academic activities, students shall be awarded the following university qualifications: the Italian qualification of “Laurea Magistrale in Scienze Chimiche (classe LM-54) (classe LM-54)” awarded by the University of Sassari, and the “Master in Molecular Science and Engineering” awarded by Instituto Superior Técnico.

Bilateral Committee

Pursuant to art. 6 of the Agreement, a bilateral Committee is established as follows:

	On behalf of Uniss Sassari	On behalf of IST Lisboa
Project Coordinator	prof. Sergio Stoccoro	prof. Isabel Marrucho
Other members	prof. Gabriele Mulas prof.ssa Serenella Medici	prof. Carlos Baleizão prof. Alexandra Antunes

Students admitted

number of students involved per cohort: max 2 students per party selected with a competition announcement to be made by April

Relations between Administrative offices

	On behalf of Uniss Sassari	On behalf of IST Lisboa
Office	- Segreteria didattica del Dipartimento di Scienze chimiche, fisiche, matematiche e naturali - Ufficio mobilità e relazioni internazionali	-International Affairs Area
Contact person	pusceddu@uniss.it relint@uniss.it	international.double.degrees@tecnico.ulisboa.pt

For Outgoing students, each of the two offices agrees to send to the partner university a list of selected students in the call for applications together with the exams already taken at the home University;

For Incoming students, each of the two offices agrees to send to the partner university the transcript of record of incoming students

Each University undertakes to provide its Home Students with all the certifications resulting from their Double Degree student status, by sending by e-mail to the partner University, including:

- the list of students selected in the call for applications, within 30 days from the selection
- the exams already taken at the Home University, before the start of the mobility period
- the Graduation Certificate of its Outgoing students, within 30 days from the defence of the thesis
- the Transcript of Records of its Incoming students, within 30 days of their return from the mobility period
- the Graduation certificate of its Incoming students, within 30 days from the defence of the thesis

The graduation diploma will be issued by the Administration directly to each student.

The Double Degree course is divided into the following academic years and semesters:

For Uniss Outgoing Students

First year - First semester:

<u>EXAM (taken in UNISS)</u>	<u>ECTS</u>
Chimica analitica (CHIM/01)	6
Chimica fisica dello stato solido (CHIM/02)	6
Chimica organica superiore (CHIM/06)	8
Materiali polimerici avanzati (CHIM/04)	8
Lingua Inglese	4

First year - Second semester:

<u>EXAM (taken in UNISS)</u>	<u>ECTS</u>
Chimica inorganica superiore (CHIM/03)	6
Spettroscopia e strutturalistica (CHIM/02)	6
Chimica elettroanalitica applicata (CHIM/01)	6
Chimica organometallica (CHIM/03)	6
Fisica delle radiazioni con applicazioni (FIS/07)	4

Second year - First semester (*mobility window*):

<u>EXAM (taken in Tecnico Lisboa)</u>	<u>ECTS</u>
Design of biomolecules	3
New trends in chemistry	3
Optional course I	6
Optional course I	6
Project in molecular science and engineering	12

Second year - Second semester (*mobility window*):

<u>EXAM (taken in Tecnico Lisboa)</u>	<u>ECTS</u>
Dissertation	30

For Tecnico Lisboa Outgoing Students

First year - First semester:

<u>EXAM (taken in Tecnico Lisboa)</u>	<u>ECTS</u>
Molecular design	12
Analytical and structural methods I	6
Computational chemistry	3
Analytical and structural methods II	3
Molecular dynamics	6

First year - Second semester:

<u>EXAM (taken in Tecnico Lisboa)</u>	<u>ECTS</u>
Science and design of polymers	6
Design of nanomaterials	6
Design for sustainability	6

Optional course I	6
Optional course II	6

Second year - First semester (mobility window):

<u>EXAM (taken in Uniss)</u>	<u>ECTS</u>
Metals in medicine (CHIM/03)	6
Optional subjects – 2 subjects to be selected among:	8
Nanomaterials and their applications (CHIM/03)	(4)
Materials and processes for new generation batteries (CHIM/02)	(4)
Novel technologies and materials in organic chemistry (CHIM/06)	(4)
Laboratory of macromolecular chemistry (CHIM/04)	(4)

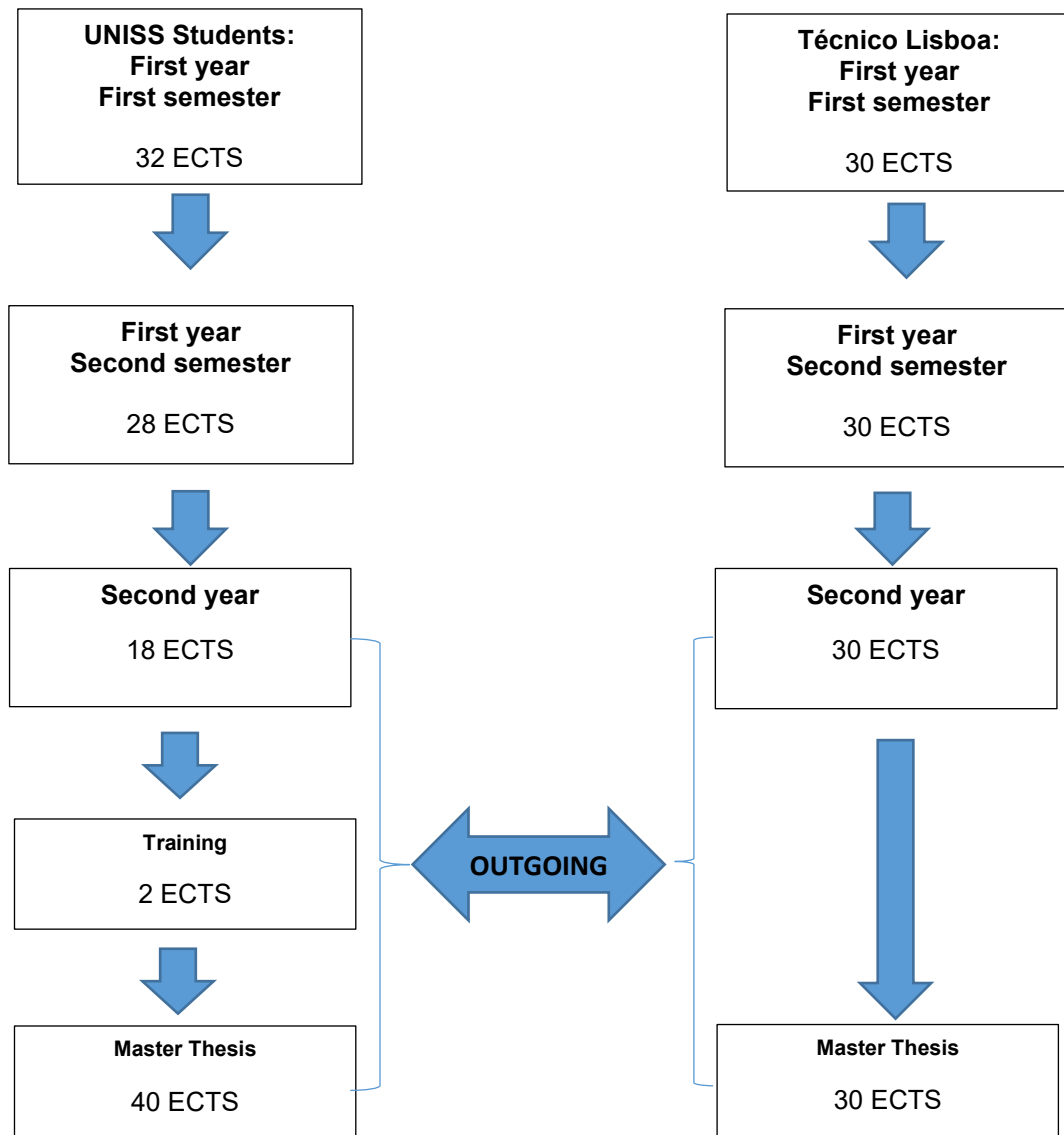
Second year - Second semester (mobility window):

<u>EXAM (taken in Uniss)</u>	<u>ECTS</u>
Optional subjects – 1 subject to be selected among:	4
Elements of Heterogeneous Catalysis (CHIM/02)	(4)
Materials, technologies and restauration of cultural heritage (CHIM/03)	(4)
Innovative materials and processes for applications related to energy and the environment (CHIM/02)	(4)
Training	2
Dissertation	40

The following table reports in detail the classes available to Double Degree students:

1st year				
Period	UNISS courses	ECTS	Tecnico Lisboa courses	ECTS
	Chimica analitica (CHIM/01)	6	Analytical and structural methods I	6
	Chimica elettroanalitica applicata (CHIM/01)	6	Analytical and structural methods II	3
	Chimica fisica dello stato solido (CHIM/02)	6	Molecular dynamics	6
	Spettroscopia e strutturistica (CHIM/02)	6	Computacional chemistry	3
	Chimica organica superiore (CHIM/06)	8	Molecular design	12
	Materiali polimerici avanzati (CHIM/04)	8	Science and design of polymers	6
	Chimica organometallica (CHIM/03)	6	Design of nanomaterials	6
	Chimica inorganica superiore (CHIM/03)	6	Design for sustainability	6
	Lingua Inglese	6	Optional course I	6
	Fisica delle radiazioni con applicazioni (FIS/07)	4	Optional course II	6
2 nd year				
Period	UNISS courses	ECTS	Tecnico Lisboa courses	ECTS
	Metals in medicine (CHIM/03)	6	Design of biomolecules	3
			New trends in chemistry	3
	Optional course I	4	Optional course I	6
	Optional course II	4	Optional course I	6
	Optional course III	4		
	Training	2	Project in molecular science and engineering	12
	Dissertation	40	Dissertation	30

For the sake of clarity, the following scheme provides a visual representation of the course structure:



Since UNISS and MTU implement different grading schemes, the following conversion table is used to facilitate the transfer of credits to each of the two national systems.

UNISS grade	Lisboa grade	ECTS
30L	20	A
30	19	A
29	19	B
28	18	B
27	17	B
26	16	C
25	15	C
24	14	C
23	14	D
22	13	D
21	12	D
20	11	D
19	11	E
18	10	E
<16		F

A conversion table for marks awarded for the thesis examination and dissertation also follows:

Table of equivalent marks for final graduation grade	
Portugal	Italy
20	110 E LODE
20	110
19	109
19	108
19	107
19	106
19	105
18	104
18	103
18	102
18	101
18	100
17	99
17	98
17	97
17	96
17	95
16	94
16	93
16	92
16	91
15	90

15	89
15	88
15	87
15	86
14	85
14	84
14	83
14	82
13	81
13	80
13	79
13	78
13	77
12	76
12	75
12	74
12	73
11	72
11	71
11	70
11	69
10	68
10	67
10	66