



**INTERNATIONAL DOUBLE MASTER'S AGREEMENT  
BETWEEN  
UNIVERSITY OF PALERMO  
AND  
UNIVERSITY OF MINHO**

On one part, **University of Palermo**, hereinafter also referred to as the **UNIPA**, with registered office at Piazza Marina n. 61, 90133 Palermo, Italy, VAT number 00605880822, and on its behalf and represented by prof. Fabio Mazolla, Vice-rector of the University of Palermo;

on the other part, the **University of Minho**, hereinafter also referred to as the **UMinho**, with registered office at Largo do Paço, 4704-553 Braga, Portugal, VAT number PT502011378, and on its behalf and represented by prof. António M. Cunha, Rector of the University of Minho

**STATE**

1. That both institutions share cultural, technical, educational, and scientific fields of common interest.
2. That collaboration and the exchange of experience and knowledge, as well as the provision of services between both institutions, are in their greatest interest for social and cultural progress.
3. That they are interested in promoting their international collaboration in the field of higher education and research.

They hereby sign an agreement that regulates the conditions under which students may access and opt for a double master's degree conferred by both universities, subject to compliance with the clauses established in this agreement, and in accordance with the current regulations at each institution, as follow:

**First – Purpose of the agreement**

This double master's agreement aims to establish the academic and administrative conditions under which students enrolled at the "Laurea Magistrale" in "Scienze Statistiche" at UNIPA, and students enrolled at the master degree course in "Mestrado em Estatística" at UMinho, may access and opt for a double master's degree conferred by both universities, subject to compliance with the clauses established in this agreement, and in accordance with the current regulations at each institution.

Both Institutions consider that the two degree courses are similar and equivalent.

All procedural rules will be determined through the informal agreement between international programmes managers (within an administrative agreement).

This Agreement is accompanied by a list of the courses and other curricular activities (Annex 1) that students enrolled in the double degree programs may opt during their stay at the host university in order to obtain the double degree. In the Annex 1 there are the similarities and correspondences of the two courses for a minimum of 30 ECTS (credits).

In addition to the courses from Annex 1 relevant for obtaining the double degree, students may, in consultation with the academic programme managers at their home institution, opt for any other module delivered at the host university during their stay.

The curriculum of the table (Annex 1) must be approved in advance by the academic programme managers of both Universities, and can be modified in each academic year, after approval of the academic bodies of both Universities.

Finally, Annex 2 provides academic programme managers and administrative officials responsible for the double master's agreement.

### **Second – Student application and admission**

The maximum number of students which could be enrolled in each double degree program will be 5 (five).

Each university will announce yearly the application call for participating to double degree program.

Evaluation of the applications and applicant's selection will be mainly based on their motivation, academic career and the level of knowledge of the language in which most courses at the host university are given.

Before beginning to take the courses at the host university, students admitted to the double degree program must possess the minimum level of knowledge of the language required by the host University.

The student's final admission requires approval by the partner institution and admission into its corresponding degree program.

### **Third - Stay**

Each student admitted to the double degree program must submit his/her plan of studies to the approval of both universities.

The students participating in the double master's program must attend one semester at the partner institution.

The partner university pledges to provide assistance in the search for suitable accommodations. Likewise, the partner institution pledges to provide the student with the information relating to the host country, visas, required medical insurance, etc., before their arrival. The partner institution must provide students in the double degree program with the same services that it generally provides its own students.

Each institution's academic calendar will be considered when organizing the stays. The academic official responsible for this agreement must inform the incoming students about the organisation of the courses they must take during their stay at the partner institution.

All students admitted to double degree program must register and present the transcript of records of the courses already taken at their home university, as well as the learning agreement with the courses they will take during their stay at the host institution.

After completing the stay, the students must submit to their institution the official student transcript of records issued by the partner institution in order to receive credit for the courses taken. The certificate must be presented in English.

#### **Fourth – Enrolment and tuition fees**

The student participating in the double degree program will pay the enrolment fees and taxes at their home university and they will be exempted from paying registration or degree fees for courses taken at the host institution during the period of the stay.

Once the student has been accepted into the double master's program, he/she must be enrolled in the corresponding master's program at the partner institution. The enrolment will be carried out by the administrative official responsible for this agreement, who will inform the student about the necessary documents.

#### **Fifth – Student obligations and rights**

During the exchange period, the students will be subject to the rules and regulations of the partner institution and to all the legal and social obligations within the host country. Likewise, they will enjoy the same rights as students enrolled at the partner institution.

If a student does not comply with the terms of this agreement, including the length of the stay at the partner institution and its curriculum, that student will forfeit any right to receive the degree from the partner institution and will be excluded from the double master's program, although they may still be eligible to opt for the master's degree at their home institution.

#### **Sixth – Expenses**

Transport costs, medical insurance, accommodations, upkeep, and any other expenses arising during the exchange period established in the double master's program will be charged to the student. The student must acquire health insurance that guarantees access to health care in the host country. This insurance must cover medical and health care, death and disability caused by an accident, repatriation assistance for death by any cause, and reimbursement for medical expenses caused by an accident.

The partner institution pledges to provide assistance in the search for suitable accommodations, although all stay expenses will be charged to the student. Likewise, the partner institution pledges to provide

the student with information relating to the host country, visas, required medical insurance, etc., before their arrival. The partner institution must provide students in the double master's program with the same services that they generally provide their own students.

UNIPA and UMinho will undertake all efforts for finding national and international resources to assure financial support to this program. Students may be financially supported with the scope of under the Erasmus+ Programme, being each institution responsible for deciding if Erasmus grants can be provided.

### **Seventh – Evaluation of the results**

The academic officers of both institution in charge of the coordination of this double degree program will meet also by video conference, at least once in a year, to evaluate the effectiveness of the learning program and the results achieved by students, as well as the resources supplied by both universities. They could suggest the necessary modifications to improve the quality of the program and propose them to the competent Boards of both institutions.

### **Eighth - Duration of the agreement**

This agreement will take effect from the time of its signing by the representatives of both institutions, and will be valid for a period of 3 (three) years. Following this period, the agreement may be renewed by written consent. Either one of the signatory institutions may terminate this agreement in writing, which must be sent to the partner institution 6 (six) months in advance. If one institution wishes to terminate this agreement, both pledge to meet their commitments to the students admitted into the double master's program before either one withdraws from it.

Moreover, the signature of this agreement does not mean any financial fulfilment to the parties.

### **Ninth – Academic and research exchanges**

With the aim of supporting the double degree program, UNIPA and UMinho will coordinate by mutual consent the joint-supervision of master dissertations, during which, at least, one face-to-face meeting between the student and the supervisors will be promoted. Furthermore, the exchange of visiting professors and researchers as well as the organisation of workshops, seminars, conferences and publications on topics of common interest will be strongly encouraged. The exchange and the development of the activities above mentioned will conform to the norms and procedures in force in the two institutions.

### **Tenth - Use of Logo**

The Partners mutually commit not to use the name and/or logo or any other identifying marks for purposes other than those covered by the agreement, except for specific agreements between the parties that provide, prior explicit approval, forms of communication and divulging of the initiatives covered by the agreement.

#### **Eleventh - Personal data treatment**

UNIPA and UMinho will arrange for the treatment, the dissemination and communication of personal data in pursuit of their institutional goals and as provided by law.

#### **Twelfth- Text of the agreement**

The agreement will be drawn up in English. Any amendments or changes to the text of the agreement must be requested in writing by the institution proposing them.

If any disagreement regarding the interpretation and application of the agreement arises, the parties agree to resolve it by mutual consent. If a solution is not possible, the parties agree to nominate a third party to mediate the issue to be resolved.

As proof of agreement with the foregoing, the present agreement is signed in duplicate.

ON BEHALF OF UNIVERSITY OF PALERMO

Prof. Fabio Mazzola      18/11/18  
Vice-rector of the University of Palermo



ON BEHALF OF THE UNIVERSITY OF MINHO

Prof. António M. Cunha      10<sup>th</sup> november 2017  
Rector of the University Minho

**Annex 1. List of courses and other curricular activities that students enrolled in the double degree program between the Laurea Magistrale in “Scienze Statistiche” at UNIPA and the Master degree in “Statistics” at UMinho can select to obtain at least the equivalent of 30 ECTS during the stay at host university**

Table 1 – Courses to be chosen at **UMinho** by UNIPA Students and corresponding UNIPA courses

UNIPA	UMinho
Laurea Magistrale in Scienze Statistiche	Master degree in “Statistics”
<i>Students choosing the 2<sup>nd</sup> semester of the 1<sup>st</sup> year</i>	
Piani di campionamento per le scienze sociali (8 ECTS)	Amostragem e Planeamento de Experiências (6 ECTS)
Biostatistics (6 ECTS)	Option 1 - Análise de Sobrevivência (6 ECTS)
Metodi Statistici Non Parametrici (6 ECTS)	Estatística Bayesiana e Aplicações (6 ECTS)
Mathematics for Economics and Finance (10 ECTS)	Análise Estatística Multivariada (6 ECTS)
Metodi esplorativi per Big Data (8 ECTS)	Option 2 - Modelação Estatística Espaço-Temporal (6 ECTS)
Attività a scelta libera (6 ECTS)	Thesis project (12 ECTS)
<i>Students choosing the 1<sup>st</sup> semester of the 2<sup>nd</sup> year</i>	
Stochastic Processes (6 ECTS)	Option 3 - Modelos de Dados Longitudinais (6 ECTS)
Statistical Modelling (10 ECTS)	Modelos Lineares Generalizados e Aplicações (6 ECTS)
Biostatistics (6 ECTS)	Option 4 - Simulação Estocástica (6 ECTS) or Teoria de Risco (6 ECTS)
Metodi esplorativi per Big Data (8 ECTS)	Thesis project (12 ECTS)
Progetto di tesi (15 ECTS)	

Table 2 – Courses to be chosen at **UNIPA** by the UMinho Student and corresponding UMinho courses

UMinho <b>Master degree in “Statistics”</b>	UNIPA <b>Laurea Magistrale in Scienze Statistiche</b>
<i>Students choosing the 2<sup>nd</sup> semester of the 1<sup>st</sup> year</i>	
Estatística Bayesiana e Aplicações (6 ECTS)	Statistica Sociale 3 (12 ECTS) (composed by 2 parts: Biostatistics (6 ECTS) and Metodi Statistici per la Valutazione (6 ECTS))
Amostragem e Planeamento de Experiências (6 ECTS)	Metodi Statistici Non Parametrici (6 ECTS)
Análise Estatística Multivariada (6 ECTS)	Econometria (6 ECTS)
Option 1- Análise de Sobrevida (6 ECTS)	Mathematics for Economics and Finance (10 ECTS)
Option 2- Modelação Estatística Espaço-Temporal (6 ECTS)	Statistica per Analisi Economiche e Aziendali (6 ECTS)
	Economia e Valutazione Statistica in Sanità (8 ECTS) (composed by 2 parts: Economia Sanitaria (4 ECTS) and Metodi Statistici per la Valutazione in Sanità (4 ECTS))
<i>Students choosing the 1<sup>st</sup> semester of the 2<sup>nd</sup> year</i>	
Modelos Lineares Generalizados e Aplicações (6 ECTS)	Stochastic Processes (6 ECTS)
Option 3- Modelos de Dados Longitudinais (6 ECTS)	Modelli matematici per la gestione del Rischio (6 ECTS)
Option 4- Simulação Estocástica (6 ECTS) or Teoria do Risco (6 ECTS)	Topics in Macro and Financial Econometrics (6 ECTS)
Thesis project (12 ECTS)	Metodi statistici per i mercati finanziari (6 ECTS)
	Categorical Data Analysis (6 ECTS)
	Statistical Modelling (10 ECTS)
	Metodi esplorativi per Big Data (8 ECTS)
	Thesis Project (15 ECTS)

Table 3 – List of extracurricular (optional) courses offered at **UMinho** and available, if desired, for UNIPA Students.

UMinho - Bachelor degree in “Applied Statistics”	
<i>1<sup>st</sup> semester</i>	<i>2<sup>nd</sup> semester</i>
Processos Estocásticos (6 ECTS) Bioestatística (5 ECTS) Análise Multivariada e Aplicações (7.5 ECTS) Investigação Operacional II (5 ECTS)	Tópicos de Engenharia Económica (5 ECTS) Investigação Operacional I (5 ECTS) Tecnologias de Bases de Dados (5 ECTS)



## **Annex 2. Academic programme managers and administrative officials responsible for the double master's agreement**

The academic programme managers responsible for the double master's program are:

- Prof. Vito Muggeo - for the "Laurea Magistrale in Scienze Statistiche" at UNIPA
- Prof. Raquel Menezes, - for "Mestrado em Estatística" at UMinho

The administrative officials responsible for the double master's program, including administrative dialogue with the partner institution agreement, are:

- Responsible officer of International Programs Office
- Valeria Floriano at UNIPA
- Email: [valeria.floriano@unipa.it](mailto:valeria.floriano@unipa.it); tel. +39 09123893832
- Address: Piazza Marina, 61 90133 Palermo
- E-mail: [programmi.internazionali@unipa.it](mailto:programmi.internazionali@unipa.it)
- Responsible officer at the Academic Services
- Carla Lavrador at UMinho
- Email: [Carla.lavrador@saum.uminho.pt](mailto:Carla.lavrador@saum.uminho.pt); tel: 351 253601100
- Address: Universidade do Minho, Serviços Académicos, Campus de Gualtar, 4710-057 Braga

If either one of the signatory institutions changes any of the officials named herein, it must inform the partner institution, as well as the academic and administrative officials of the double master's program, and indicate the corresponding substitutes.



Universidade do Minho



UNIVERSITÀ  
DEGLI STUDI  
DI PALERMO

## MEMORANDUM OF UNDERSTANDING

between the  
**UNIVERSITY OF MINHO, PORTUGAL**  
and the  
**UNIVERSITÀ DEGLI STUDI DI PALERMO, ITALY**

The **University of Minho**, hereinafter referred to as **UMinho**, a public higher education institution of foundational nature, located at Largo do Paço, 4704-553 Braga, Portugal, VAT 502 011 378, represented by its Rector, Professor António M. Cunha, and the **Università degli Studi di Palermo**, hereinafter referred to as **UNIPA**, located at Piazza Marina n. 61, 90133 Palermo, Italy, VAT 00605880822, Italy, represented by its Vice-rector, Professor Fabio Mazzola, jointly hereinafter referred to as Parties, recognize their strengths in research and education and their mutual interest in promoting co-operation on multiple levels, in the spirit of contributing to the development of science and knowledge transfer.

office at

### Article 1

#### Scope of collaborative activities

In accordance to the regulations of both countries, the Parties will initiate, coordinate and cooperate in activities concerning:

- Exchange of faculty members;
- Exchange of students;
- Joint research activities and joint publications;
- Joint educational programmes;
- Joint development / supervision of PhD thesis;
- Joint conferences, workshops, short courses or seminars;
- Any other collaboration, which may be opportune for both Parties.

### Article 2

#### Additional agreements

The details and specifications for each of the aforementioned collaborations will be established through additional agreements, proposed by individual faculties, schools or research centres from each partner institution. These agreements will also take into consideration the financial framework for the specific cooperation and other details that might be considered important by the Parties.

### Article 3

#### Intellectual property

Both Parties agree to respect each other's rights to intellectual property. Further, the intellectual property rights that arise as a result of any collaborative research or activity under this Memorandum of Understanding

will be worked out on a case-to-case basis and by each member of each partner institution concerned in a specific agreement.

#### **Article 4** **Institutional Coordinator**

For each additional agreement, each institution will appoint a contact person who will act on behalf of the university she/he represents.

#### **Article 5** **Validity**

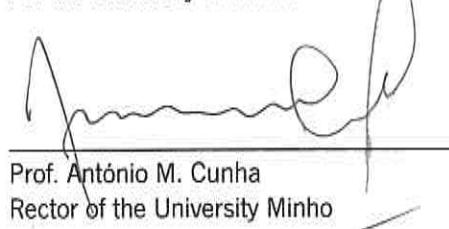
The present Memorandum of Understanding will become legally effective and enforceable as soon as it is signed by both Parties and it will be valid for a period of 5 (five) years, with the possibility to extend it.

#### **Article 6** **Termination**

Either Party may terminate this agreement within 6 (six) month prior notice to the other Party.

This Memorandum of Understanding is approved by the respective administrative bodies and signed in two originals in English.

For the University of Minho



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Prof. António M. Cunha  
Rector of the University Minho

Braga, 10<sup>th</sup> November 2017

For the Università degli Studi di Palermo



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Prof. Fabio Mazzola  
Vice-rector of the University of Palermo

Palermo, 18 GENNAIO 2018



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Table 1 – Courses to be completed at **UMinho** by UNIPA Students and corresponding UNIPA courses

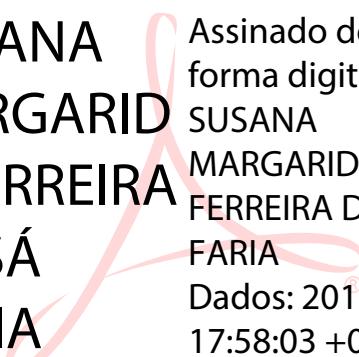
UNIPA	UMinho
Laurea Magistrale in Scienze Statistiche	Master degree in “Statistics”
<i>Students choosing the 2<sup>nd</sup> semester of the 1<sup>st</sup> year</i>	
Piani di campionamento per le scienze sociali (9 ECTS)	Amostragem e Planeamento de Experiências (6 ECTS)
Biostatistica (9 ECTS)	Option 1 - Análise de Sobrevida (6 ECTS)
Metodi Statistici Avanzati CI (9 ECTS)	Estatística Bayesiana e Aplicações (6 ECTS)
Modelli matematici per la gestione del rischio (9 ECTS)	Análise Estatística Multivariada (6 ECTS)
Metodi esplorativi per Big Data (9 ECTS)	Option 2 - Modelação Estatística Espaço-Temporal (6 ECTS)
Attività a scelta libera (9 ECTS)	Thesis project (12 ECTS)
Piani Sperimentali e Sperimentazioni Cliniche (3 ECTS)	
<i>Students choosing the 1<sup>st</sup> semester of the 2<sup>nd</sup> year</i>	
Stochastic Processes (6 ECTS)	Option 3 - Modelos de Dados Longitudinais (6 ECTS)
Modelli Statistici (9 ECTS)	Modelos Lineares Generalizados e Aplicações (6 ECTS)
Biostatistica (9 ECTS)	Option 4 - Simulação Estocástica (6 ECTS)
Metodi esplorativi per Big Data (9 ECTS)	Thesis project (12 ECTS)
Progetto di tesi (15 ECTS)	

Table 2 – Courses to be completed at **UNIPA** by the UMinho Student and corresponding UMinho courses

UMinho	UNIPA
<b>Master degree in “Statistics”</b>	<b>Laurea Magistrale in Scienze Statistiche</b>
<i>Students choosing the 2<sup>nd</sup> semester of the 1<sup>st</sup> year</i>	
Estatística Bayesiana e Aplicações (6 ECTS) Amostragem e Planeamento de Experiências (6 ECTS) Análise Estatística Multivariada (6 ECTS) Option 1- Análise de Sobrevida (6 ECTS) Option 2- Modelação Estatística Espaço-Temporal (6 ECTS)	Biostatistica (9 ECTS) Metodi Statistici Avanzati C.I (9 ECTS) (composed by 2 parts: Metodi statistici non parametrici (6 ECTS) and Statistica Bayesiana (3 ECTS)). Econometria (6 ECTS) Mathematics for Economics and Finance (10 ECTS) Statistica per Analisi Economiche e Aziendali (6 ECTS) Metodi statistici per l'Economia e i Mercati finanziari CI (9 ECTS) (composed by two parts: Metodi statistici per i Mercati finanziari (3 ECTS) and Lab (3 ECTS)) Topics in Macro and Financial Econometrics (6 ECTS)
<i>Students choosing the 1<sup>st</sup> semester of the 2<sup>nd</sup> year</i>	
Modelos Lineares Generalizados e Aplicações (6 ECTS) Option 3- Modelos de Dados Longitudinais (6 ECTS) Option 4- Simulação Estocástica/Teoria do Risco (6 ECTS) Thesis project (12 ECTS)	Stochastic Processes (6 ECTS) Modelli matematici per la gestione del Rischio CI (9 ECTS) (composed by two parts: Modelli matematici per la gestione del Rischio (6 ECTS) and Lab (3 ECTS)) Dati Categoriali (6 ECTS) Modelli Statistici (9 ECTS) Metodi esplorativi per Big Data (9 ECTS) Valutazione Statistica ed Economica in Sanità (9 ECTS) (composed by 2 parts: Piani Sperimentali e Sperimentazioni Cliniche (3 ECTS) and Metodi Statistici per la Valutazione in Sanità (6 ECTS)) Thesis Project (15 ECTS)

Table 3 – List of extracurricular (optional) courses offered at **UMinho** and available, if desired, for UNIPA Students.

UMinho - Bachelor degree in “Applied Statistics”	
<i>1<sup>st</sup> semester</i>	<i>2<sup>nd</sup> semester</i>
Processos Estocásticos (6 ECTS) Bioestatística (5 ECTS) Análise Multivariada e Aplicações (7.5 ECTS) Investigação Operacional II (5 ECTS)	Tópicos de Engenharia Económica (5 ECTS) Investigação Operacional I (5 ECTS) Tecnologias de Bases de Dados (5 ECTS)

**SUSANA  
MARGARIDA  
A FERREIRA  
DE SÁ  
FARIA**

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UNIPA	UMinho
Laurea Magistrale in Scienze Statistiche	Master degree in “Statistics”
<i>Students choosing the 2<sup>nd</sup> semester of the 1<sup>st</sup> year</i>	
Piani di campionamento per le scienze sociali (9 ECTS) Biostatistica (9 ECTS) Metodi Statistici Avanzati CI (9 ECTS) Modelli matematici per la gestione del rischio (9 ECTS) Metodi esplorativi per Big Data (8 ECTS) Attività a scelta libera (9 ECTS) Piani Sperimentali e Sperimentazioni Cliniche (3 ECTS)	Amostragem e Planeamento de Experiências (6 ECTS) Option 1 - Análise de Sobrevivência (6 ECTS) Estatística Bayesiana e Aplicações (6 ECTS) Análise Estatística Multivariada (6 ECTS) Option 2 - Modelação Estatística Espaço-Temporal (6 ECTS) Thesis project (12 ECTS)
<i>Students choosing the 1<sup>st</sup> semester of the 2<sup>nd</sup> year</i>	
Stochastic Processes (6 ECTS) Statistical Modelling (10 ECTS) Biostatistics (6 ECTS) Metodi esplorativi per Big Data (8 ECTS) Progetto di tesi (15 ECTS)	Option 3 - Modelos de Dados Longitudinais (6 ECTS) Modelos Lineares Generalizados e Aplicações (6 ECTS) Option 4 - Simulação Estocástica (6 ECTS) Thesis project (12 ECTS)

Table 2 – Courses to be completed at **UNIPA** by the UMinho Student and corresponding UMinho courses

UMinho	UNIPA
<b>Master degree in “Statistics”</b>	<b>Laurea Magistrale in Scienze Statistiche</b>
<i>Students choosing the 2<sup>nd</sup> semester of the 1<sup>st</sup> year</i>	
Estatística Bayesiana e Aplicações (6 ECTS) Amostragem e Planeamento de Experiências (6 ECTS) Análise Estatística Multivariada (6 ECTS) Option 1- Análise de Sobrevivência (6 ECTS) Option 2- Modelação Estatística Espaço-Temporal (6 ECTS)	Statistica Sociale 3 (12 ECTS) (composed by 2 parts: Biostatistics (6 ECTS) and Metodi Statistici per la Valutazione (6 ECTS)) Econometria (6 ECTS) Mathematics for Economics and Finance (10 ECTS) Statistica per Analisi Economiche e Aziendali (6 ECTS) Economia e Valutazione Statistica in Sanità (8 ECTS) (composed by 2 parts: Economia Sanitaria (4 ECTS) and Metodi Statistici per la Valutazione in Sanità (4 ECTS)) Topics in Macro and Financial Econometrics (6 ECTS)
<i>Students choosing the 1<sup>st</sup> semester of the 2<sup>nd</sup> year</i>	
Modelos Lineares Generalizados e Aplicações (6 ECTS) Option 3- Modelos de Dados Longitudinais (6 ECTS) Option 4- Simulação Estocástica/Theoria do Risco (6 ECTS) Thesis project (12 ECTS)	Stochastic Processes (6 ECTS) Modelli matematici per la gestione del Rischio (6 ECTS) Metodi statistici per i mercati finanziari (6 ECTS) Categorical Data Analysis (6 ECTS) Modelli Statistici (9 ECTS) Metodi esplorativi per Big Data (8 ECTS) Thesis Project (15 ECTS)

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UMinho - Bachelor degree in “Applied Statistics”	
<i>1<sup>st</sup> semester</i>	<i>2<sup>nd</sup> semester</i>
Processos Estocásticos (6 ECTS) Bioestatística (5 ECTS) Análise Multivariada e Aplicações (7.5 ECTS) Investigação Operacional II (5 ECTS)	Tópicos de Engenharia Económica (5 ECTS) Investigação Operacional I (5 ECTS) Tecnologias de Bases de Dados (5 ECTS)

**SUSANA  
MARGARIDA  
FERREIRA  
DE SÁ FARIA**

  
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