

## QUANTITATIVE ECONOMICS (2020-21)

<b>Código:</b> D049	<b>Fecha de aprobación:</b> 30/07/2010	<b>Precio:</b> 39,27 1st registration credits
<b>Créditos:</b> 120	<b>Título:</b> Master (ECTS)	

### RAMA

Social and Legal Sciences

### PLAN

UNIVERSITY MASTER'S DEGREE IN QUANTITATIVE ECONOMICS

### TIPO DE ENSEÑANZA

Face-to-face

### CENTROS DONDE SE IMPARTE

Faculty of Economics and Business Sciences

### ESTUDIO IMPARTIDO CONJUNTAMENTE CON

Solo se imparte en esta universidad

### FECHAS DE EXAMEN

[Acceda al listado de fechas de examen para esta titulación.](#)

## PLAN DE ESTUDIOS OFERTADO EN EL CURSO 2020-21

Leyenda: No ofertada Sin docencia

### UNIVERSITY MASTER'S DEGREE IN QUANTITATIVE ECONOMICS

#### COMPULSORY SUBJECTS

75 créditos

Curso	Título	Créditos	Subject
2	END OF MASTER WORK	10	<a href="#">41245 - MASTER'S DEGREE FINAL PROJECT</a>
1	COMPULSORY	6	<a href="#">41200 - MATHEMATICS</a>
1	COMPULSORY	6	<a href="#">41202 - MICROECONOMICS I</a>
1	COMPULSORY	6	<a href="#">41203 - MICROECONOMICS II</a>
1	COMPULSORY	6	<a href="#">41204 - MICROECONOMICS III</a>
1	COMPULSORY	6	<a href="#">41205 - MACROECONOMICS I</a>
1	COMPULSORY	6	<a href="#">41206 - MACROECONOMICS II</a>
1	COMPULSORY	6	<a href="#">41207 - MACROECONOMICS III</a>
1	COMPULSORY	6	<a href="#">41208 - STATISTICS</a>
1	COMPULSORY	6	<a href="#">41209 - ECONOMETRICS I</a>
1	COMPULSORY	6	<a href="#">41210 - ECONOMETRICS II</a>
2	COMPULSORY	5	<a href="#">41244 - INTRODUCTION TO RESEARCH IN ECONOMICS</a>

#### OPTIONAL SUBJECTS

45 créditos

Curso	Título	Créditos	Subject
2	OPTIONAL	5	<a href="#">41211 - GAME THEORY</a>
2	OPTIONAL	5	<a href="#">41212 - CONTRACT THEORY</a>
2	OPTIONAL	5	<a href="#">41213 - AUCTIONS AND MARKET DESIGN</a>
2	OPTIONAL	5	<a href="#">41214 - ADVANCED TOPICS IN ECONOMIC THEORY</a>
2	OPTIONAL	5	<a href="#">41215 - BEHAVIOURAL ECONOMICS</a>
2	OPTIONAL	5	<a href="#">41216 - EXPERIMENTAL ECONOMICS</a>
2	OPTIONAL	5	<a href="#">41217 - SOCIAL NETWORKS</a>
2	OPTIONAL	5	<a href="#">41218 - ADVANCED TOPICS IN BEHAVIOURAL ECONOMICS, EXPERIMENTAL ECONOMICS AND SOCIAL NETWORKS</a>
2	OPTIONAL	5	<a href="#">41219 - INDUSTRIAL ORGANISATION I</a>
2	OPTIONAL	5	<a href="#">41220 - INDUSTRIAL ORGANISATION II</a>
2	OPTIONAL	5	<a href="#">41221 - ADVANCED TOPICS IN INDUSTRIAL ORGANISATION</a>
2	OPTIONAL	5	<a href="#">41222 - PUBLIC ECONOMICS I</a>
2	OPTIONAL	5	<a href="#">41223 - PUBLIC ECONOMICS II</a>
2	OPTIONAL	5	<a href="#">41224 - POLITICAL ECONOMICS</a>
2	OPTIONAL	5	<a href="#">41225 - LABOUR ECONOMICS I</a>
2	OPTIONAL	5	<a href="#">41226 - LABOUR ECONOMICS II</a>
2	OPTIONAL	5	<a href="#">41227 - ADVANCED TOPICS IN LABOUR ECONOMICS</a>
2	OPTIONAL	5	<a href="#">41228 - MICROECONOMICS AND DEVELOPMENT ECONOMICS</a>
2	OPTIONAL	5	<a href="#">41229 - MACROECONOMICS AND DEVELOPMENT ECONOMICS</a>
2	OPTIONAL	5	<a href="#">41230 - ADVANCED TOPICS IN DEVELOPMENT ECONOMICS</a>
2	OPTIONAL	5	<a href="#">41231 - INTERNATIONAL ECONOMICS I</a>
2	OPTIONAL	5	<a href="#">41232 - INTERNATIONAL ECONOMICS II</a>
2	OPTIONAL	5	<a href="#">41233 - REGIONAL AND URBAN ECONOMICS</a>
2	OPTIONAL	5	<a href="#">41234 - ADVANCED MACROECONOMICS I</a>
2	OPTIONAL	5	<a href="#">41235 - ADVANCED MACROECONOMICS II</a>
2	OPTIONAL	5	<a href="#">41236 - MACROECONOMICS AND FINANCIAL MARKETS</a>
2	OPTIONAL	5	<a href="#">41237 - MACROECONOMICS AND MONETARY POLICY</a>
2	OPTIONAL	5	<a href="#">41238 - ADVANCED TOPICS IN MACROECONOMICS</a>
2	OPTIONAL	5	<a href="#">41239 - TIME SERIES</a>
2	OPTIONAL	5	<a href="#">41240 - MACROECONOMETRICS</a>
2	OPTIONAL	5	<a href="#">41241 - MICROECONOMETRICS</a>
2	OPTIONAL	5	<a href="#">41242 - ADVANCED ECONOMETRICS</a>
2	OPTIONAL	5	<a href="#">41243 - ADVANCED TOPICS IN ECONOMETRICS</a>

Superado este bloque se obtiene

**MASTER'S DEGREE IN QUANTITATIVE ECONOMICS**

## OBJECTIVES

The main objective of this Master's degree is to provide students with an education in advanced economics, thus enabling them to undertake research in this field. More specifically, the aim is to locate students at the cutting edge of research in various areas of Economics so that, upon completion of the course, they are equipped to undertake their doctoral thesis successfully.

Students that complete the Master's Degree in Quantitative Economics should have in-depth knowledge of the latest advanced concepts and methodologies in the field, enabling them to analyse complex economic problems and apply a conceptual framework to the specific circumstances of economic agents, including individuals, businesses and institutions. This knowledge must necessarily include quantitative tools in mathematics, statistics and econometrics, hence the special emphasis on teaching quantitative methods.

The course programme should equip Economics graduates that complete the Master's Degree in Quantitative Economics to pursue an academic or professional career. The generic and specific competencies developed on the Master's course incorporate recommendations from the *Tuning Project* (Tuning Educational Structures in Europe. Universities' contribution to the Bologna process, 2006). Particular attention has also been paid to the "*Subject Benchmark Statements. Economics*" from the UK's Quality Assurance Agency for Higher Education.



- [Structure of the Master's Degree: credits and subjects](#)
- [Distribution of subjects by year/semester](#)
- [General course programme](#)

## MASTER'S DEGREE COURSE CREDITS AND SUBJECT GROUPS

Subject type	Credits
Compulsory (OB)	65
Optional (OP)	45
Master's final project (OB)	10
<b>TOTAL CREDITS</b>	<b>120</b>

## DISTRIBUTION OF SUBJECTS BY YEAR/SEMESTER

FIRST YEAR								
TRIMESTER 1			TRIMESTER 2			TRIMESTER 3		
SUBJECT	TYPE	ECTS	SUBJECT	TYPE	ECTS	SUBJECT	TYPE	ECTS
MATHEMATICS	OB	6	MACROECONOMICS II	OB	6	MACROECONOMICS III	OB	6
MACROECONOMICS I	OB	6	ECONOMETRICS I	OB	6	ECONOMETRICS II	OB	6
STATISTICS	OB	6	MICROECONOMICS II	OB	6	MICROECONOMICS III	OB	6
MICROECONOMICS I	OB	6						

SECOND YEAR					
TRIMESTER 4			TRIMESTER 5 and 6		
SUBJECT	TYPE	ECTS	SUBJECT	TYPE	ECTS
INTRODUCTION TO RESEARCH	OB	5	MASTER'S FINAL PROJECT	OB	10
OPTIONAL SUBJECTS <sup>(1)</sup>					

<sup>(1)</sup> **Optional courses:** Each year, up to 18 optional subjects will be offered from the list of modules below. All optional subjects are worth 5 ECTS credits. The specific subjects offered each year will depend on student preferences and on the availability of internal and external teachers that year in the Foundations of Economic Analysis Department. Students must choose nine optional subjects, and are advised to take three per term.

OPTIONAL SUBJECTS GROUPED BY MODULES			
MODULE	SUBJECT	TYPE	ECTS
ADVANCED ECONOMIC THEORY	GAME THEORY	OP	5
	CONTRACT THEORY	OP	5
	AUCTIONS AND MARKET DESIGN	OP	5
	ADVANCED ISSUES IN ECONOMIC THEORY	OP	5
BEHAVIOURAL, EXPERIMENTAL AND NETWORK ECONOMICS	BEHAVIOURAL ECONOMICS	OP	5
	EXPERIMENTAL ECONOMICS	OP	5
	SOCIAL NETWORKS	OP	5
	ADVANCED ISSUES IN BEHAVIOURAL, EXPERIMENTAL AND NETWORK ECONOMICS	OP	5
INDUSTRIAL ORGANISATION	INDUSTRIAL ORGANISATION I	OP	5

	INDUSTRIAL ORGANISATION II	OP	5
	ADVANCED ISSUES IN INDUSTRIAL ORGANISATION	OP	5
PUBLIC AND POLITICAL ECONOMICS	PUBLIC ECONOMICS I	OP	5
	PUBLIC ECONOMICS II	OP	5
	POLITICAL ECONOMICS	OP	5
LABOUR ECONOMICS	LABOUR ECONOMICS I	OP	5
	LABOUR ECONOMICS II	OP	5
	SUBJECTS ADVANCED IN LABOUR ECONOMY	OP	5
DEVELOPMENT ECONOMICS	MICROECONOMICS AND DEVELOPMENT ECONOMICS	OP	5
	MACROECONOMICS AND DEVELOPMENT ECONOMICS	OP	5
	ADVANCED ISSUES IN DEVELOPMENT ECONOMICS	OP	5
INTERNATIONAL, REGIONAL AND URBAN ECONOMICS	INTERNATIONAL ECONOMICS I	OP	5
	INTERNATIONAL ECONOMICS II	OP	5
	REGIONAL AND URBAN ECONOMICS	OP	5
ADVANCED MACROECONOMICS	ADVANCED MACROECONOMICS I	OP	5
	ADVANCED MACROECONOMICS II	OP	5
	MACROECONOMICS AND FINANCIAL MARKETS	OP	5
	MACROECONOMICS AND MONETARY POLICY	OP	5
	ADVANCED ISSUES IN MACROECONOMICS	OP	5
ECONOMETRICS	TIME SERIES	OP	5
	MACROECONOMETRICS	OP	5
	MICROECONOMETRICS	OP	5
	ADVANCED ECONOMETRICS	OP	5
	ADVANCED ISSUES IN ECONOMETRICS	OP	5

## GENERAL COURSE PROGRAMME

The Master's Degree in Quantitative Economics consists of 120 ECTS credits to be taken over two academic years. In the first year, students take ten compulsory subjects worth 6 ECTS credits each. In the second year, students take a compulsory subject, Introduction to Research into Economics, worth 5 ECTS credits, and choose another nine optional subjects, all worth 5 credits each. They must also complete the Final Master's Project, which is worth 10 ECTS credits.

The Master's Degree in Quantitative Economics is divided into terms. Each term lasts 12 weeks, except for the first term of the first year, which lasts 15 weeks. During the first ten weeks of each term (13 weeks in the first term of the first year), students attend theoretical and practical classes in each subject, with final exams taken in the last two weeks of each term. In the first year, students study four compulsory subject areas: Mathematics, Microeconomics, Macroeconomics and Econometrics. Mathematics is an important tool in Economics and the subject, worth 6 ECTS credits, will be taught in the first term. The other three subject areas taught in the first year are also worth 6 ECTS credits each, and students study one subject per term from these three areas. In the first term of the second year, students take a compulsory subject, Introduction to Research into Economics, worth 5 ECTS credits. Students in the second year also choose nine optional subjects (from at least three different modules) from the list of 18 possible subjects available. The specific subjects offered each year will depend on student preferences and on the availability of internal and external teachers that year in the Foundations of Economic Analysis Department. Finally, during the last two terms of the second year, students complete their Master's Final Project, under the supervision of either a teacher in the Foundations of Economic Analysis Department, or one of the external teachers collaborating on the Master's degree programme that year.

- [Entry Requirements and Selection Criteria](#)
- [Admission and Assessment Criteria](#)
- [Pre-enrolment and Enrolment](#)
- [Number of Places](#)

## **ENTRY REQUIREMENTS AND SELECTION CRITERIA**

According to the Regulations of the University of Alicante, the following requirements must be complied to have access to official taught Master's degrees:

1. To be in possession of a SPANISH OFFICIAL GRADUATE DEGREE CERTIFICATE or other issued by an institution of higher education within the EHEA (European Higher Education) that enables the holder to have access to Master's degrees in the issuing.
2. To be in possession of an officially approved FOREIGN HIGHER EDUCATION DEGREE CERTIFICATE that had been recognised as equal to the degree that allows access to the requested studies.
3. To be in possession of a UNIVERSITY DEGREE CERTIFICATE obtained in a University or Higher Education Institution of COUNTRIES OUTSIDE THE EHEA, without the prior approval of their studies. In this case, the following should be considered:
  - Non- recognised degree certificates shall require a technical report showing an equivalence statement issued by the University of Alicante ([ContinUA – Continuing Education Centre](#)), for which the corresponding fee should be paid.
  - Access through this way does under no circumstances imply prior official approval of the holder's degree certificate, nor its recognition for purposes other than studying a master's degree.

## **ADMISSION AND ASSESSMENT CRITERIA**

### **1.- Admission Profile**

This course is primarily aimed at graduates in Economics, although graduates in Mathematics, Physics, Engineering and Business Administration and Management, among others, are also eligible for admission.

All students whose first language is not English will be required to submit recent proof that their command of written and spoken English is sufficient to ensure that their academic progress will not be hindered by language difficulties.

In accordance with the Common European Framework of Reference for Languages, an applicant's command of English must be equivalent to:

1. **International English Language Testing System (IELTS):** global mark of **6.5**, with a minimum of **6.0** for each of the papers.
2. **Test Of English as a Foreign Language (TOEFL):** mark of **580**, plus **4** in the Test of Written English (TWE).

### **2. Assessment criteria**

Applicants will be selected according to the following criteria:

- Grades obtained for previous studies, above all in subject areas related to the Master's Degree (**60%**).
- References (**30%**).
- Other achievements, such as training courses or research related to any of the subjects areas covered by the Master's Degree course (**10%**).

Students have to pre - register [online](#) and attach the following documents:.

- Statement of purpose (or research).
- Official transcripts from each University which conducted studies. If the original transcripts are not written in English or Spanish, must be accompanied by a translation.
- Official academic diplomas at each University which conducted studies. If the original transcripts are not written in English or Spanish, must be accompanied by a translation.
- Curriculum Vitae.
- Two letters of recommendation.
- Copy of the Passport.

Two letters of reference must be **directly** sent by the letter-writers to [qed@ua.es](mailto:qed@ua.es)

## **PRE-ENROLMENT AND ENROLMENT**

**PRE-ENROLMENT [+info](#)**

Students who intend to study for an officially recognised Master's Degree at the UA should complete

**Frequently asked questions****ENROLMENT [+info](#)**

Following publication of the final list of those admitted to the course, an email containing a user password will be sent to successful applicants, enabling them to enrol via the **Campus Virtual** in accordance with the guidelines and deadlines specified annually.

In the registration process, the **documents issued abroad** must be official, duly notorised and translated. Further information:

- <https://sga.ua.es/en/academic-regulations/attestation/attestation-of-documents.html>

**NUMBER OF PLACES**

COURSE	NUMBER OF PLACES
2012-13	25
2013-14	25
2014-15	25
2015-16	25
2016-17	25
2017-18	25
2018-19	25
2019-20	25



## **FOCUS**

Academic and research.

## **DEGREE COURSE SPECIALISATION PROFILE**

1. Research in Economics
2. Studies services in Banking and International Organizations
3. Economic Consulting

## TIMESCALE FOR IMPLEMENTATION

- [Timescale](#)
- [Procedure](#)
- [Discontinued programmes](#)

### **1. Timescale for implementation of the Master's Degree course**

Academic year	Implementation of Master's degree
2010-2011	1st year
2011-2012	2nd year

### **2. Procedure for equivalence recognition, where appropriate, between the current and the new course programme.**

Since all the compulsory and optional subjects in the new Master's degree are identical to those of the current Official Master's Degree in Quantitative Economics, students on the existing course will obtain automatic credit equivalence recognition for the new course.

### **3. Studies being phased out and replaced by the proposed degree course:**

Official Master's Degree in Quantitative Economics

- [Verified Report](#)
- [Resolution from the Universities Council: Positive verification](#)
- [Resolution from the Universities Council: Accreditation renewal](#)
- [Authorization from the Valencian Government](#)

#### Internal Quality Assurance System (SGIC) of the Title

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- Structure of the Centre for Quality
  - [Comission of Internal Quality Guarantee](#)
  - [Other Commissions](#)
- [Handbook SGIC](#)
- [Procedures](#)
  - [Strategic \(PE\)](#)
  - [Key \(PC\)](#)
  - [Support \(PA\)](#)
  - [Measurement \(PM\)](#)
- [Management of the SGIC \(Access to ASTUA\)](#)

#### Follow-up of the Title

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- [Self-reports UA](#)
- [External reports AVAP](#)
- [Other reports](#)
- [Improvement Plans](#)
- [Progress and Learning Outcomes](#)

Information about the Centre	General information for students
<ul style="list-style-type: none"> <li>• <b>Faculty of Economics and Business Secretary Faculty (Building "Germán Bernácer")</b></li> </ul> <p>Campus de San Vicente del Raspeig Ctra. de Alicante s/n 03690 San Vicente del Raspeig (Alicante) Telephone:+ 34 96 590 3670/3671/3770 Fax:+ 34 96 590 9789 <a href="mailto:master.economiques@ua.es">master.economiques@ua.es</a> <a href="http://economicas.ua.es/en/">economicas.ua.es/en/</a></p> <p><a href="#">Master's web</a></p> <ul style="list-style-type: none"> <li>• <b>Life Long Learning Centre (ContinUA)</b></li> </ul> <p><b>Only for pre-enrolment formalities</b></p> <p>Germán Bernácer Building. Ground Floor Telephone: + 34 96 590 9422 Fax: + 34 96 590 9442 <a href="mailto:continua@ua.es">continua@ua.es</a> <a href="https://web.ua.es/en/continua/">https://web.ua.es/en/continua/</a></p>	<ul style="list-style-type: none"> <li>• <a href="#">Grants and assistance</a></li> <li>• <a href="#">Accommodation</a></li> <li>• <a href="#">Student refectories and cafeterias</a></li> <li>• <a href="#">Transport</a></li> <li>• <a href="#">Emergency medical care</a></li> <li>• <a href="#">Insurance</a></li> <li>• <a href="#">Services for students with special needs</a></li> <li>• <a href="#">Student representation and participation</a></li> <li>• <a href="#">University student identity card (TIU)</a></li> <li>• <a href="#">Frequently asked questions</a></li> </ul>
UA: General Regulations	+ Information about qualifications
<ul style="list-style-type: none"> <li>• <a href="#">Academic regulations and procedures of the University of Alicante</a></li> </ul>	<ul style="list-style-type: none"> <li>• <a href="#">Official State Gazette (BOE) on publication of course programmes</a></li> <li>• <a href="#">Own Web</a></li> <li>• <a href="#">Mobility web</a></li> <li>• <a href="#">Information pamphlet</a></li> <li>• <a href="#">Details title on the RUCT</a></li> </ul>