5. DIPLOMAS
The UA awards the official Spanish University Master’s Degree to those participants that have obtained 120 ECTS. Moreover, CIHEAM awards the Postgraduate Specialisation Diploma to those participants that have obtained 60 ECTS taking the full first part of the Master.

6. ADMISSION CRITERIA
The first part of the Master is designed for participants that fulfil the following conditions:

a) University degree related to the topic of the Master preference will be given to graduates in Biology, Marine Sciences, Economics, Administration and Business Management, Law, Agroindustry and Fisheries engineering.

b) Knowledge of Spanish, which will be the normal working language of the course. For those who are interested but do not have enough Spanish knowledge, both CIHEAM and the Superior Centre for Languages of the University of Alicante offer intensive Spanish courses that will help them reach the required level.

c) Understanding of English given that some lectures and part of the teaching material will be in English.

The candidate’s academic record (75%) and professional experience (25%) in the area of specialisation will be valued.

7. PRE-REGISTRATION AND ENROLMENT FEE
The pre-registration and enrolment deadlines and the documentation to be submitted can be found in https://web.ua.es/en/continua/applications.html. Pre-admitted candidates must enrol before a deadline established by the University of Alicante in accordance with the official calendar.

Registration fees for each academic year of the Master amount to approximately 2400* euros. This sum covers the documentation for the course, theoretical and practical classes, seminars and the cost of the technical trip and visits. In no case will travel, board and lodging expenses be included. For candidates wishing to attend part of the course, the fees will be proportional to the credits they register for.

It is compulsory for participants to have medical insurance valid for Spain. Proof of health insurance cover must be given at the beginning of the Master. For participants under 28 years of age, academic insurance is included in the registration fees.

*The price is indicative and may vary as the rates for Master postgraduate programme credits are determined annually by the Valencian Regional Government.

8. BECAS Y AYUDAS
Several private and public bodies may award scholarships to take part in this programme. These scholarships provide the student with a total or partial aid to pay for the registration fee, and for scholarships covering the cost of travel and accommodation. Scholarships will be awarded according to academic merit and candidates from developing countries will be prioritised. The application for these scholarships must be completed before 4 May 2019 on the following link: http://www.admission.iamz.ciheam.org/en/. Only those students who achieve an average of seven out of ten or higher on the first part of the Master will be entitled to apply for the scholarships awarded by CIHEAM.

Pending final confirmation, some scholarships will also be awarded to candidates from GFCM Contracting Parties and Cooperating non-Contracting Parties (Albania, Algeria, Bulgaria, Croatia, Cyprus, Egypt, France, Greece, Italy, Japan, Lebanon, Libya, Malta, Morocco, Montenegro, Monaco, Romania, Slovenia, Spain, Syria, Tunisia and Turkey; Bosnia and Herzegovina, Georgia and Ukraine).

Candidates from other countries who require financial support should apply directly to other national or international institutions, such as the European Commission or the World Bank, etc.

For the second part of the Master those students doing a curricular external internship or the FMP at national or international companies and institutions are entitled to apply for the mobility grant offered by the University of Alicante’s Faculty of Science.

9. INFORMATION AND CONTACT
Faculty of Science
- e-mail: masterciencias@ua.es
- Phone: +34 965903557 - Fax: +34 965903781
- Website: https://ciencias.ua.es/en/estudios/master-s-degrees/master-s-degree-in-sustainable-fisheries-management.html

Mediterranean Agronomic Institute of Zaragoza
- e-mail: iamz@iamz.ciheam.org
- Phone: +34 976716000 - Fax: +34 976716001

Organised by:

Universitat d’Alacant
Facultat de Ciència de la Pesca del Mediterrani

Food and Agriculture Organization of the United Nations
General Fisheries Commission for the Mediterranean and the Black Sea

Several private and public bodies may award scholarships to take part in this programme. These scholarships provide the student with a total or partial aid to pay for the registration fee. Several aid schemes for postgraduate studies can be found on the master’s website, in Scholarships and specific aid section.
1. INTRODUCTION AND OBJECTIVES

Fisheries are an excellent food source as well as a driver of job creation in the coastal areas. According to the FAO, the annual supply of fish of animal origin (FAP) is distributed among different countries, research vessels, and companies. The fisheries sector is of great importance for the sustainability and stability of the economy, both in terms of production and exports. However, the overexploitation of fishery resources is a concern that requires urgent attention. The new Master offers a wide range of courses that cover various aspects of fishery management, such as biological, economic, social, and environmental factors. The programme is delivered by highly qualified lecturers from international institutions, universities, research centres, and private firms, including the following:

- University of Almería
- University of Girona
- University of Vigo
- University of Murcia
- National Fisheries Research Institute of Spain
- Technological Institute for Environmental Conservation of Atlantic Tuna
- National Research Council
- Social Marine Institute
- SIMRAD
- Probitec
- WorldFish
- Ship-owners Cooperative of Vigo
- CEPESCA, Spanish Association for the Fish and Seafood Canning Industry
- Sea Around Us
- WWF
- Fisheries Research Commission for the Mediterranean (GRCM)
- and the Fisheries and Aquaculture Department of the United Nations Food and Agriculture Organisation (FAO).

2. ORGANISATION

The Master is jointly coordinated by the University of Almería (UA), the International Centre for Advanced Mediterranean Agronomic Studies (CIHEAM) through the Mediterranean Agronomic Institute of Zaragoza (IAMZ) and the Spanish Ministry of Agriculture, Fisheries and Food (SGP-MAPAMA). The Master will provide technical support within the limits of their respective mandates.

3. ACADEMIC ORGANISATION AND CURRICULUM

The Master is delivered over two academic years (120 credits), following the European Credit Transfer System (ECTS), and is structured in two parts, corresponding to two complete academic years. A new edition of the Master starts every two years. The eighth edition will take place from October 2019 to June 2021, and the ninth edition will be from October 2021 to June 2023.

The first part of the Master (60 ECTS) is primarily oriented and is held in Almería, at the Faculty of Science of the University of Almería, in the academic years 2019-2020 and 2020-2021, respectively. This part is designed to provide the necessary knowledge and skills to equip graduates with a comprehensive understanding of fishery management, adapted to the conditioning social and environmental factors. The programme is delivered by highly qualified lecturers from international institutions, universities, research centres, and private firms, including the following:

- University of Almería
- University of Girona
- University of Vigo
- University of Murcia
- National Fisheries Research Institute of Spain
- Technological Institute for Environmental Conservation of Atlantic Tuna
- National Research Council
- Social Marine Institute
- SIMRAD
- Probitec
- WorldFish
- Ship-owners Cooperative of Vigo
- CEPESCA, Spanish Association for the Fish and Seafood Canning Industry
- Sea Around Us
- WWF
- Fisheries Research Commission for the Mediterranean (GRCM)
- and the Fisheries and Aquaculture Department of the United Nations Food and Agriculture Organisation (FAO).

3.1. INTRODUCTION TO THE MARINE ECOSYSTEM, FISHERY RESOURCES AND AQUACULTURE (6 ECTS)

Structure and characteristics of marine ecosystems. Fishery resources introduction to aquaculture.

3.2. STATISTICAL ANALYSIS AND DATABASE USE (5 ECTS)

Statistical analysis, Use of databases, Introduction to geomatics and Geographic Information Systems.

3.3. DYNAMICS OF EXPLOITED FISH POPULATIONS (3 ECTS)

Population units, Basic concepts, Capture-recapture, Demography, Recruitment, growth and mortality, Selectivity, Catches and fishing effort, Standardisation of fishing effort. Data sources for population dynamics.

3.4. THEORY AND MODELS FOR FISHERY ASSESSMENT (6 ECTS)


3.5. BASIC ECONOMICS AND PRODUCTION FACTORS IN FISHERIES (4 ECTS)

Basic economics. Fisheries business activity. The fishing vessel and fishing technology.

3.6. FISH TRADE AND PROCESSING (4 ECTS)

The fish trade worldwide. World trade situations. Fish trade and marketing. Consumer behaviour and market research. The economic perspective.

3.7. THEORY AND APPLICATION OF BIOECONOMIC MODELS AND ECONOMIC AND SOCIAL INDICATORS (6 ECTS)

Statistical and dynamic, bioeconomic models. Aggregation of bioeconomic models (PESTOLs). Models structured by age and optimal management. Use of economic and social indicators.

3.8. INSTITUTIONAL FRAMEWORK AND COOPERATION (4 ECTS)


3.9. MARITIME LAW AND SOCIO-CULTURAL PERSPECTIVE (5 ECTS)


3.10. OBJECTIVES AND INSTRUMENTS FOR FISHING POLICIES (5 ECTS)


3.11. INSTITUTIONAL VISITS (5 ECTS)

Technical visits and conferences at government institutions, research centres, fishing organisations, processing industries, and markets.

The programme of the first part of the Master is delivered over two academic years, with lectures given by lecturers from international institutions, universities, research centres, services of the public administration and private companies. The work leading to the completion of the TFM will be supervised and directed by a tutor who must be a doctor of renowned experience.