

Master in Aquaculture and Fisheries



Faculdade de Ciências e Tecnologia
Universidade do Algarve



Objetives

Provide adequate knowledge to the analysis and understanding of risk assessment, management, sustainable use and conservation of the living resources.

AQUACULTURE

FISHERIES

- Knowledge for the production of several species in different aquaculture systems;
- Skills in the areas of Aquaculture and Fisheries;
- Competencies which allow evolving into a specialization within studies in 3rd- cycle;
- Training of professionals able to communicate with experts and non-specialists.

MASTER STRUCTURE



Aquaculture Study Plan

Year	Semester	Module
1	1	Statistical Analysis
1	1	Techniques in Molecular and Cellular Biology
1	1	Fisheries Biology and Ecology
1	1	Topics in Aquaculture, Fisheries and Conservation
1	1	Option(s)
1	2	Culture of Live Feed and Larviculture
1	2	Transformation of Aquatic Products
1	2	Reproduction in Aquaculture
1	2	Genetics and Selection
1	2	Pathology
1	2	Option(s)
1	2	Option(s)
2	1	Thesis proposal
2	1	Thesis
2	2	



Fisheries Study Plan

Module
Statistical Analysis
Techniques in Molecular and Cellular Biology
Fisheries Biology and Ecology
Topics in Aquaculture, Fisheries and Conservation
Option(s)
Fisheries Technology and Stock Assessment
Transformation of Aquatic Products
Conservation and Management
Modeling
Option(s)
Option(s)
Thesis proposal
Thesis



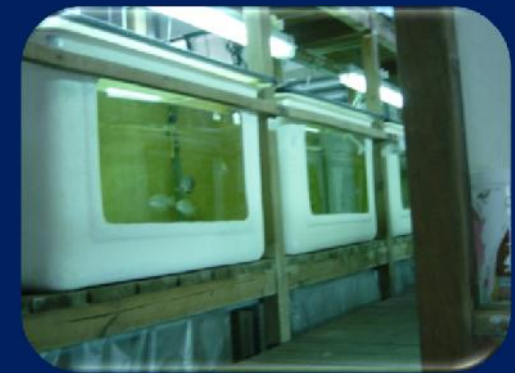
All courses have:

- Theoretical classes
- Practical classes
- Seminars given by specialists
- Field work
- Visits to research institutions and enterprises.



Specific laboratories for the cultivation of marine organisms:

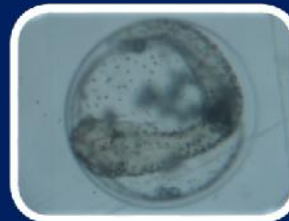
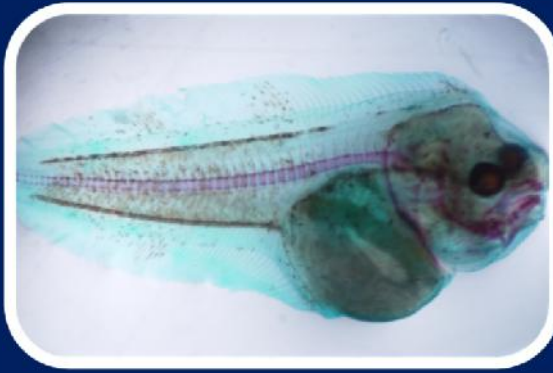
- LEOA
- Ramalhete Experimental Station



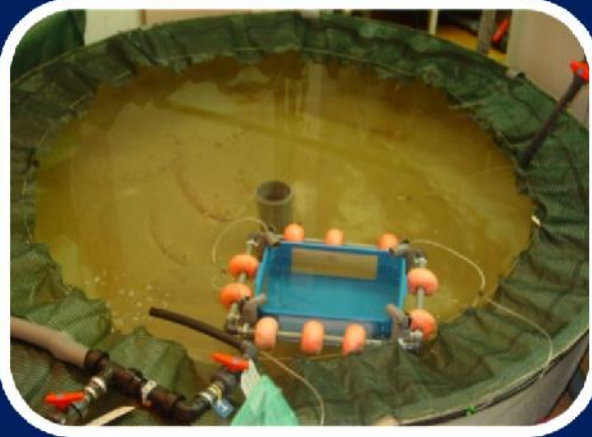
What do we do in our classes?



- Microalgae, rotifers and Artemia production,
- Rearing of fish larvae



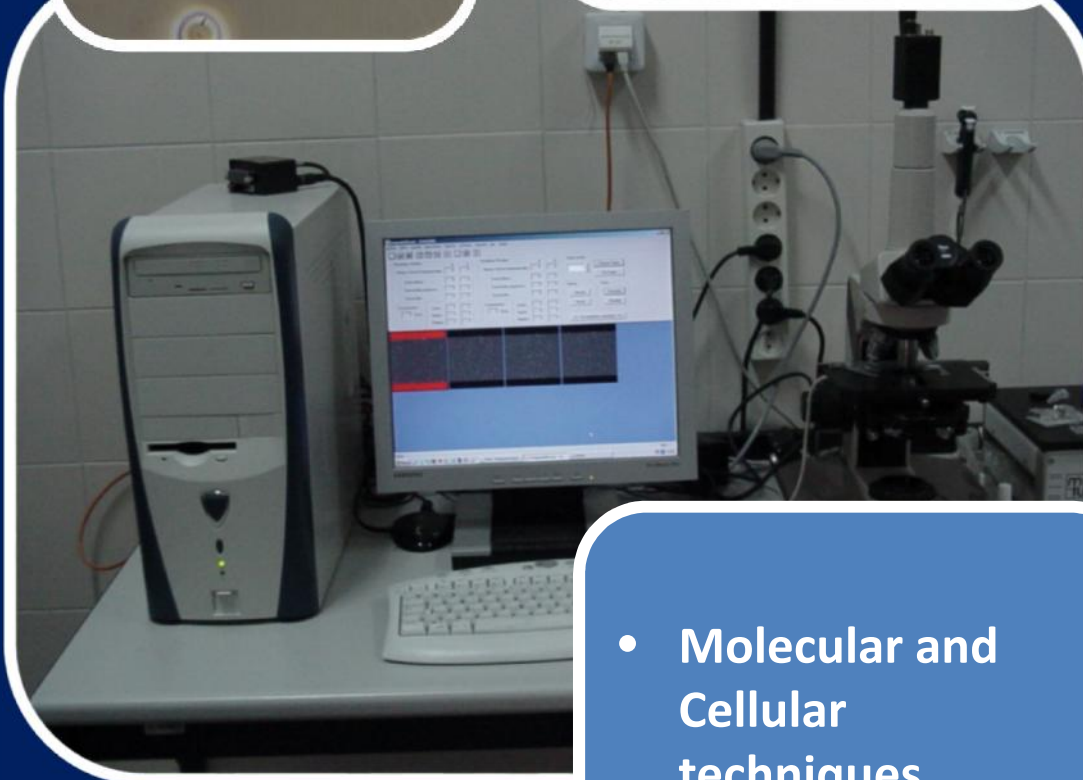
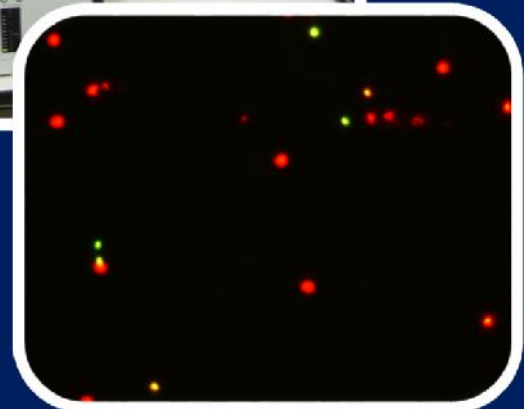
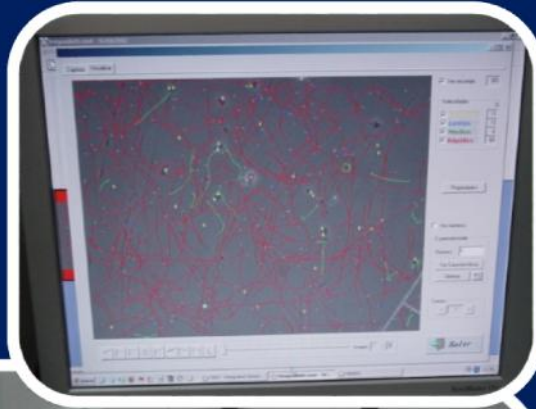
What do we do in our classes?



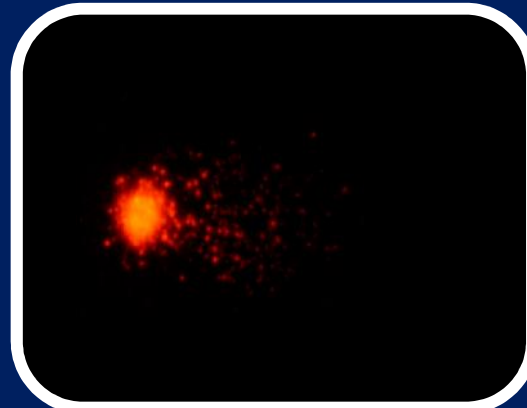
- Fish reproduction
- Breeders management



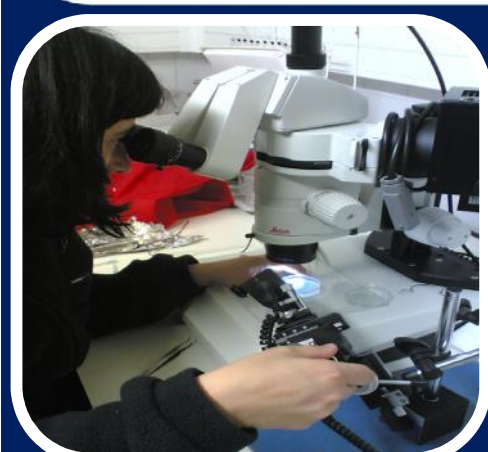
What do we do in our classes?



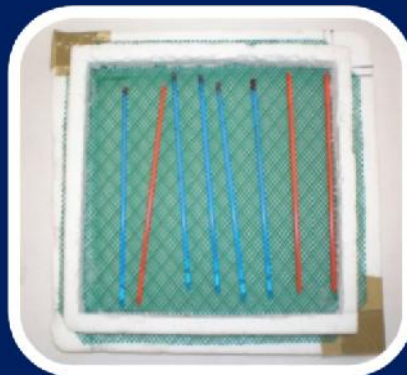
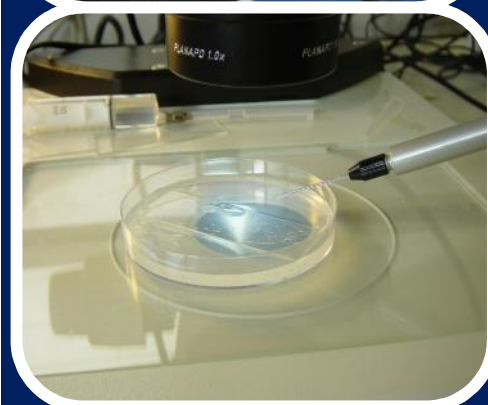
- Molecular and Cellular techniques



What do we do in our classes?



- New production techniques



When can I apply?

Inscription in our master is open permanently

1st Phase deadline- 15/03/2016 results: 23 March

2nd Phase deadline- 15/07/2016 results: 20 July

3rd Phase deadline- 02/09/2016 results: 9 September

Maximum number of students: 25

Our master is totally taught in English!

More information:

<https://www.ualg.pt/home/pt/curso/1430>



Where can I do my thesis?

Research in Aquaculture and Fisheries



Collaboration with several national research centers
(UAlg, CCMAR, IPMA)



Aquagroup

- Fish nutrition
- Reproductive biotechnology



FBHRG

- Cephalopod cultivation
- Seahorses cultivation



EDGE

- Fish malformations
- Skeletal development
- Gene expression



CME

- Hormonal control of reproduction
- Fish physiology



IPMA

- Cultivation of several species: seabream, seabass, meagre, grouper, clams, oyster,
- Fisheries management

FBC

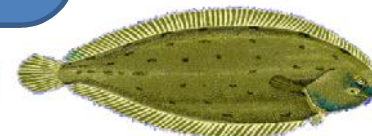
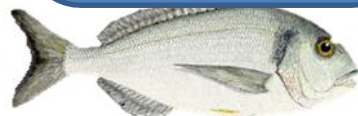
- Fisheries, conservation and management
- Population dynamics

MarBioteck

- Extraction of Microalgae compounds
- Biodiesel

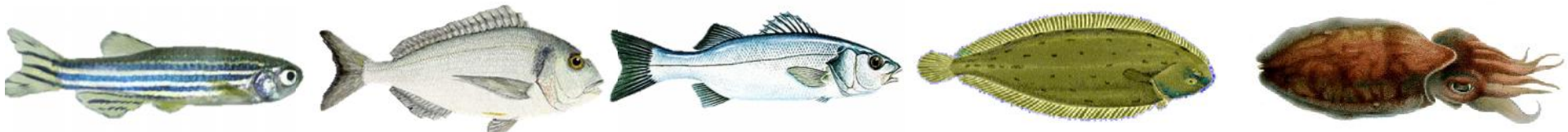
BEE

- Reproductive strategies in macroalgae



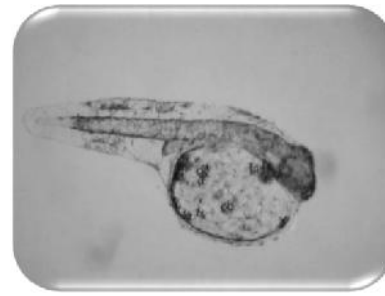
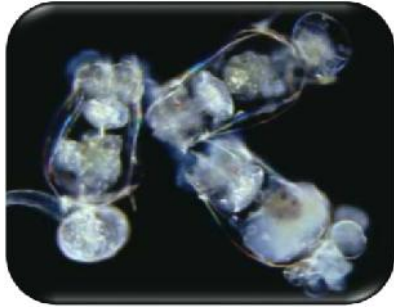
Where can I do my thesis?

- **Abroad in Universities with bilateral cooperation:**
 - University of Bergen (Norway)
 - University of Ghent (Belgium)
 - University of Wageningen (Netherlands)
- **In any other University, research center or company**
 - ERASMUS + mobility grants for EU places



Places where students decided to do their thesis (2013-2016)





Master coordination

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MASTER IN AQUACULTURE AND FISHERIES

University of Algarve
Faculty of Sciences and Technology
www.fct.ualg.pt

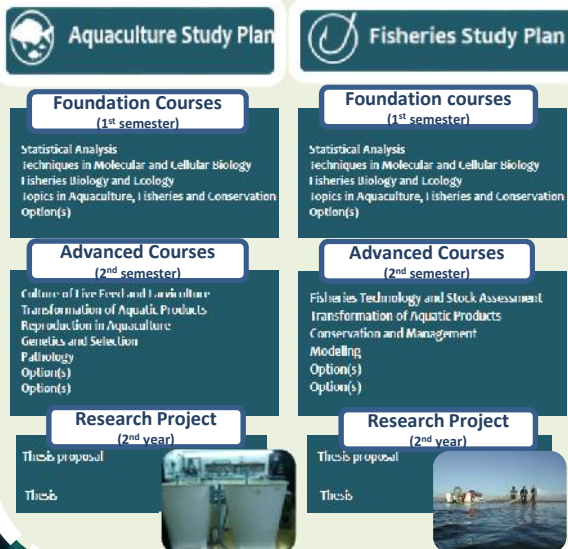
Introduction

The master in **Aquaculture and Fisheries** (MAP) offers training for the assessment, management, conservation and sustainable exploitation of living resources, providing students with the knowledge and skills required in fisheries sciences and in different aquaculture production systems.

Key information

- ✓ **Duration:** 2 years
- ✓ **Credits:** 120 ECTS
- ✓ **Language:** English
- ✓ **Accreditation:** In accordance to Bologna Process
- ✓ **Starting date:** September 2016
- ✓ **Fees:** 1000 Euros/year for EU students; 3500 Euros/years for citizens from other countries

Structure



Career opportunities

- ✓ Professionals for aquaculture and fisheries.
- ✓ Consultancy at technical and scientific level.
- ✓ Employability in public or private sector, companies in areas of biotechnological innovation, aquaculture and transformation of aquatic products.
- ✓ Entrepreneurship.

Research facilities

- ✓ Well equipped laboratories for techniques in Fisheries and Aquaculture (www.ccmr.ualg.pt).
- ✓ Wet laboratories for Aquaculture training (LEOA and Ramalhete Experimental Station).
- ✓ Vessels for fisheries research.
- ✓ Multispecies research facilities (seabream, seabass, sole, zebrafish, cephalopods, etc).

Who can apply?

- ✓ 1st degree (BSc) in science, particularly biology, marine biology, marine science, environmental sciences, landscape architecture, biological engineering, environmental engineering, biophysics, engineering or related courses.
- ✓ Candidates with scientific or professional CV recognized by the scientific council.

Application period

- ✓ 1st phase- until 15-03-2016
- ✓ 2nd phase- until 15-07-2016
- ✓ 3rd phase- until 02-09-2016

You will have an answer in one week!

Online Application Form:

<https://www.ualg.pt/en/content/candidatura-online-mestrados>

More information:

<http://fct.ualg.pt/en/curso/1430>

MSc Commission Members

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