

AQUACULTURE TECHNIQUES

Responsible professor: MARÍA DEL CARMEN RENDÓN UNCETA

Credits: 5,0 ECTS

Brief description of the contents:

- Biology of the main species used in aquaculture
- Culture techniques in aquaculture
- Sampling techniques in land-based and offshore facilities
- Observation and recognition of different species of the food chain in aquaculture: phytoplankton, zooplankton and marine fish larvae
- Water treatment and recirculation techniques in aquaculture facilities
- Aquaculture facility management for R&D and animal welfare

Detailed programme:

| LEARNING BLOCK | TOPIC OR ACTIVITY |
|----------------|--|
| B1 | Use of microalgae in aquaculture. |
| B2 | Identification and recognition of microalgae used in aquaculture. |
| B3 | Biology and culture of marine zooplankton: copepods. |
| B4 | Offshore culture technologies. |
| B5 | Production of bivalve mollusc seed. |
| B6 | Pre-fattening and fattening of bivalve molluscs. |
| B7 | Design of water distribution systems in aquaculture plants (I). |
| B8 | Design of water distribution systems in aquaculture plants (II). |
| B9 | Aquaculture facility management for R&D and animal welfare. |
| B10 | Biosecurity in marine culture plants. |
| B11 | Exogenous feeding in marine fish larvae: rotifers and artemia. |
| B12 | Techniques for the production of live feeds: rotifers and artemia. |
| B13 | Sea bream larval rearing. |
| B14 | Culture of fingerlings. |
| B15 | Culture of molluscs: techniques for feeding and calculating the condition index. |
| B16 | Management of breeding stock (sea bream). |
| B17 | Assessment of the effects of different anaesthetics on a cultured fish population. Stress factors. |
| B18 | Management of breeding stock (sole). |

Evaluation system:

| | SYSTEM | WEIGHT |
|--|---|---------|
| | Class attendance and participation | 5 – 10 |
| | Practical class attendance: laboratory or marine culture plant | 15 – 20 |
| | Case studies | 20 – 30 |
| | Content test | 20 – 40 |