ASSESSMENT AND MANAGEMENT OF FISHERY RESOURCES

Responsible professor: REMEDIOS CABRERA CASTRO
Credits: 5,0 ECTS

Brief description of the contents:

- Assessment of demersal resources with direct methods. Campaigns and methods
- Excess production models. Foundations, development and application
- Analytical models: virtual population analysis (VPA) and cohort analysis
- Use of VPA for future projections: abundance, biomass and capture
- Assessment of fishery resources with acoustic methods. Foundations, methods and application
- Egg production models for the evaluation of small pelagic fisheries. Spawning biomass: foundations and application
- Use of time series for the assessment of fishery resources
- Heuristic models applied to fisheries
- Bioeconomic models in fisheries

Detailed programme:

LEARNING BLOCK	TOPIC OR ACTIVITY
B1	Course presentation.
B2	Assessment of demersal resources with direct methods.
B3	Time series models applied to fisheries (I).
B4	Time series models applied to fisheries (II).
B5	Time series models applied to fisheries (III).
B6	Time series models applied to fisheries (IV).
B7	Excess production models.
B8	Production models for to the evaluation of fishery resources.
B9	Analytical methods.
B10	Virtual population analysis (VPA).
B11	Acoustic methods for fishery assessments.
B12	Acoustic methods in small pelagic fishery assessments.
B13	Methods for the study of ichthyoplankton. Campaigns.
B14	Ichthyoplankton sample analysis.
B15	Assessment of spawning biomass in small pelagic fisheries.
B16	Fishery management: regional fisheries bodies (RFBs)
B17	Effect of environmental variability on fisheries.
B18	Integrated approach to ecosystems.

Evaluation system:

SYSTEM	WEIGHT
Class attendance and participation	5 – 10
Individual and group projects	15 – 20
Case studies	20 – 30
Content test	20 – 40