



## LM MARE

### *Marine Resources Management*

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**Academic year 2020/2021**

Marine environment sustains communities and livelihoods, controls climate, serves as a highway for global commerce, represents a potential energy source and provides recreation and inspiration. It is also at risk, as climate change, pollution and other human activities take their toll. To tackle these problems, future leaders and policy makers will need a broad background in both natural and social sciences.

#### General syllabus

1. Definition of marine resources and overview of different marine resources, with emphasis on biological marine resources
2. Origin and history of marine resource management
3. Fishing gears and fisheries sampling techniques
4. Aquaculture: definition, goals and sustainability
5. Management and conservation tools for marine resources
6. Principles of Stock Assessment and Population Dynamics Ecosystems (populations, & stocks; reproduction, recruitment & survival; stock identification methods; Maximum Sustainable Yield)
7. Threats for the good management of marine resources
8. Policy for marine resource management (local level, community level, regional agreements, state level, country, international agreements)
9. MPA as a model of marine resource management
10. BLUE economy

Related field activities and practical exercises will be carried out consistent with the needs of the mitigation measures against the COVID-19 pandemic.

Main free reference books

- Carlson A., Maynou F., Basurco B., Bernal, M. (2016). Management of living marine resources. In: *Mediterra 2016. Zero Waste in the Mediterranean. Natural Resources, Food and Knowledge*, International Centre for Advanced Mediterranean Agronomic Studies (CIHEAM) and Food and Agriculture Organization of the United Nations (FAO) – Paris: Presses de Sciences Po, 2016.
- Iversen, E. S. (1996). *Living marine resources: their utilization and management*. Springer Science & Business Media.
- Caddy, J. F., & Griffiths, R. C. (1995). *Living marine resources and their sustainable development: some environmental and institutional perspectives*. FAO.

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