

## TEACHING MODULES INFORMATION

### EMJMD WACOMA (academic year 2018/19)

<b>1.</b>	<b>Module Title:</b> Integrative management of wetlands and harbors										
<b>2.</b>	<b>Module Code:</b> (not necessary yet)										
<b>3.</b>	<b>Maximum Number of Students:</b> 25										
<b>4.</b>	<b>Total ECTS Credits:</b> 2 ECTS										
<b>5.</b>	<b>Month:</b> First year, second semester										
<b>6.</b>	<p><b>Notional Learning Hours (Please fill a number in box):</b>            (a) Contact Time - e.g in the classroom, or fieldwork            (b) Private Study - reading time, preparing and taking assessments</p> <p><b>Format of Teaching:</b></p> <table style="width: 100%; border: none;"> <tr> <td>Lectures</td> <td style="text-align: right;">10 Hours (a)</td> </tr> <tr> <td>Laboratories or Practicals</td> <td style="text-align: right;">4 Hours (a)</td> </tr> <tr> <td>Other (computer workshops)</td> <td style="text-align: right;">0 Hours</td> </tr> <tr> <td>Other (tutorials)</td> <td style="text-align: right;">4 Hours (a)</td> </tr> <tr> <td>Other (private study)</td> <td style="text-align: right;">36 Hours (b)</td> </tr> </table> <p><b>Teaching Strategy:</b>            Lectures – 14            Workshops – 0            Tutorials – 4</p>	Lectures	10 Hours (a)	Laboratories or Practicals	4 Hours (a)	Other (computer workshops)	0 Hours	Other (tutorials)	4 Hours (a)	Other (private study)	36 Hours (b)
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Other (private study)	36 Hours (b)										
<b>7.</b>	<b>Convener:</b> Dr. Javier García Onetti										
<b>8.</b>	<b>Institution:</b> University of Cadiz										
<b>9.</b>	<b>Level (Please tick Y):</b> Master Degree										
<b>10.</b>	<b>Language(s) of Tuition:</b> English										
<b>11.</b>	<b>Pre-requisites:</b> It is unlikely that there will be prerequisites beyond the entrance qualifications for a science-based Masters programme.										
<b>12.</b>	<b>Co-requisites:</b> None										

13.	<p><b>Programme(s) for which module is core:</b> Erasmus Mundus Joint Master Degree in Water and Coastal Management (WACOMA)</p>
14.	<p><b>Module Description - The Purpose or Aims:</b></p> <ol style="list-style-type: none"> <li>1. To provide the necessary training to understand the importance and the multidimensional particularities of the maritime-port sector, with special attention to the singularities of its management system and its relationship with coastal and marine management</li> <li>2. To facilitate a methodology to understand the port socio-ecological impact, both positive and negative, in coastal and marine areas, as well as to delimit the different areas and dimensions of influence</li> <li>3. To train for the implementation of tools that allow to bridge port management and integrated coastal and marine management</li> <li>4. Strengthen the knowledge developed through examples and with the application of the techniques and methods explained to real cases</li> </ol>
15.	<p><b>Learning Outcomes:</b></p> <ol style="list-style-type: none"> <li>1. Considering the coastal zone as an area of interaction between the socio-economic and physical-natural environments.</li> <li>2. Understanding the interaction processes that occur between port systems and coastal and marine ecosystems.</li> <li>3. Understanding ports and its surroundings as a socio-ecological system to deal with environmental problems.</li> <li>4. Considering the problems of the socio-ecological port systems from an ecosystem and integrated approach to guarantee human well-being.</li> </ol>
16.	<p><b>Summary of Course Content:</b></p> <ol style="list-style-type: none"> <li>1. Introduction to port coastal areas. Importance and particularities of the maritime-port sector and relationship with the integrated and ecosystem based approach. Ecosystem services in port coastal areas. Background and new frameworks. Debate on port territorial influence (5 hours)</li> <li>2. Analysis of port systems from a socio-ecological perspective. Multidimensional influence, identifying its positive and negative impacts. Delimitation and characterization of socio-ecological port systems. Real examples and exercises (5 hours)</li> <li>3. International initiatives for the environmental management of port systems. Group exercise: selection and analysis of port systems around the world with a socio-ecological perspective. Management considerations (4 hours).</li> </ol>
17.	<p><b>Key Skills Taught:</b></p> <ol style="list-style-type: none"> <li>1. Develop integrated and ecosystem analysis of complex problems</li> <li>2. To analyze the different variables and dimensions involved in the processes of port management and problems to coastal and marine management.</li> <li>3. Communication and negotiation skills.</li> <li>4. To make proposals</li> <li>5. Leadership capacity and working with groups</li> </ol>

**18. Assessment Methods:**

1. Attendance and participation in theoretical and practical lessons
2. Exhibitions and / or defenses of exercises, themes and works

**19. Assessment Criteria:**

A successful candidate should have or be able to do the following:

***Threshold***

A basic understanding of the appropriate science and modelling approach and a reasonable understanding of the model results and their implications.

***Good***

A good understanding of the science and correct model results which are presented and interpreted to a good standard, with some reference to independent literature data and results.

***Excellent***

A good to excellent understanding of the science and correct model results which are presented and interpreted to a high standard, with plenty of references used for comparisons and to critically evaluate the results.

20.	<p><b>Resource Implications of Proposal and Proposed Solutions:</b></p> <p><i>(Recommended Bibliography: compulsory, optional, other sources of information)</i></p> <p>Barragán, J.M., 2014. Política, Gestión y Litoral. Una Nueva Visión de la Gestión Integrada de Áreas Litorales. Tébar, Madrid (España).</p> <p>Barragán, J.M., 1995. Puerto, ciudad y espacio litoral en la Bahía de Cádiz. Las infraestructuras portuarias en la ordenación del espacio litoral de la Bahía de Cádiz. Autoridad Portuaria de la Bahía de Cádiz, Cádiz (España).</p> <p>Barragán, J.M., 1994. Las infraestructuras portuarias en ordenación, planificación y gestión del espacio litoral. Boletín la Asoc. Geógrafos Españoles 19, 5–16.</p> <p>EC, 2011. EC Guidance on the implementation of the Birds and Habitats Directives in estuaries and coastal zones, with particular attention to port development and dredging. European Commission (EC).</p> <p>EC, 2006. COM(2006) 275 final. Towards a future Maritime Policy for the Union: A European Vision for the Oceans and Seas. Communication from the European Commission (EC).</p> <p>Elliott, M., 2011. Marine science and management means tackling exogenic unmanaged pressures and endogenic managed pressures – A numbered guide. Mar. Pollut. Bull. 62, 651–655. doi:10.1016/j.marpolbul.2010.11.033</p> <p>ESPO, 2014. European Ports Work. European Sea Ports Organisation (ESPO).</p> <p>EU, 2014. Directive 2014/89/EU of the European Parliament and of the Council of 23 July 2014 establishing a framework for maritime spatial planning, Official Journal of the European Union. Directive.</p> <p>Garcia-Sanabria, J., 2014. Hacia la gestión integrada del medio marino: análisis de un nuevo marco conceptual y metodológico. Universidad de Cádiz.</p> <p>Greenpeace, 2011. Destrucción a toda costa 2011. Un análisis de la situación de los Puertos del Estado.</p> <p>Grindlay, A.L., 2008. Ciudades y puertos. Ciudades 11, 55–80.</p> <p>Grindlay, A.L., 2001. Los puertos mediterráneos andaluces: centralidad urbana y dimensión territorial. Universidad de Granada.</p> <p>MEA, 2005. Ecosystems and Human Well-being: Synthesis, The Millennium Ecosystem Assessment. World Resources Institute. doi:10.1196/annals.1439.003</p> <p>Merk, O., 2013. The competitiveness of global port-cities: synthesis report (No. 13), OECD Regional Development Working Papers, 2013. OECD Publishing, Paris (France). doi:http://dx.doi.org/10.1787/5k40hdhp6t8s-en</p> <p>Snelgrove, P.V., Flitner, M., Urban Jr, E.R., Ekau, W., Glaser, M., Lotze, H.K., Philippart, C.J.M., Sompongchaiyakul, P., Yuwono, E., Melillo, J.M., others, 2009. Governance and management of ecosystem services in semi-enclosed marine systems, in: Scientific Committee on Problems of the environment (SCOPE) (Ed.), Watersheds, Bays, and Bounded Seas: The Science and Management of Semi-Enclosed Marine Systems. Island Press, Washington, D.C., pp. 49–76.</p>
21.	<p><b>Does this module replace existing provision? If so, please indicate modules to be replaced:</b></p> <p>The module fits in the area of “Environmental Impacts and management”</p>
22.	<p><b>Start Date:</b></p> <p>First year, second semester</p>
23.	<p><b>Is it intended that the module be available every year?</b></p> <p>Yes</p>