

FORM FOR SUBMISSION OF MODULE FOR A EUROPEAN JOINT MASTERS

1.	Module Title: Environmental assessment and management of accidental spill in littoral ecosystems								
2.	Module Code: (not necessary yet)								
3.	Maximum Number of Students: 20								
4.	Total ECTS Credits: 2 ECTS								
5.	Month: First year, second semester								
6.	<p>Notional Learning Hours (Please fill a number in box): (a) Contact Time - e.g in the classroom, or fieldwork (b) Private Study - reading time, preparing and taking assessments</p> <p>Format of Teaching: (total “contact time” = 14 hours)</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 60%;">Lectures</td> <td style="text-align: right;">9 Hours (a)</td> </tr> <tr> <td>Laboratories or Practicals</td> <td style="text-align: right;">5 Hours (a)</td> </tr> <tr> <td>Other (tutorials)</td> <td style="text-align: right;">Hours</td> </tr> <tr> <td>Other (private study)</td> <td style="text-align: right;">36 Hours (b)</td> </tr> </table> <p>Teaching Strategy: Lectures – Workshops – Tutorials –</p>	Lectures	9 Hours (a)	Laboratories or Practicals	5 Hours (a)	Other (tutorials)	Hours	Other (private study)	36 Hours (b)
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Laboratories or Practicals	5 Hours (a)								
Other (tutorials)	Hours								
Other (private study)	36 Hours (b)								
7.	Convener: Carmen Morales Caselles								
8.	Institution: Universidad de Cádiz								
9.	Level (Please tick Y): Master Degree								
10.	Language(s) of Tuition: English								
11.	Pre-requisites: It is unlikely that there will be prerequisites beyond the entrance qualifications for a science-based Masters programme.								
12.	Co-requisites: None								
13.	Programme(s) for which module is core: Erasmus Mundus Joint Master Degree in Water and Coastal Management (WACOMA)								

14.	<p>Module Description - The Purpose or Aims:</p> <p>This course is designed to introduce students to the different steps that follow an oil spill in a natural environment: from the detection to the contingency actions with a special focus on the diagnostic tools to identify the impacts of hydrocarbon contamination in the marine and coastal environment.</p>
15.	<p>Learning Outcomes:</p> <p>Research tools for environmental assessment Oil spill management overview</p>
16.	<p>Summary of Course Content:</p> <p>I. Oil spills in sea preparedness and responsiveness II. Diagnostic tools to identify the impacts of hydrocarbon contamination in the marine and coastal environment III. Case studies and practical approaches</p>
17.	<p>Key Skills Taught:</p> <p>Knowledge on different tools and methodologies for oil spill assessment Critical thinking Communication Management</p>
18.	<p>Assessment Methods:</p> <p>The final grade will be based upon the following evaluation components:</p> <ol style="list-style-type: none"> 1. Class attendance, participation in class discussion 2. The students will have to choose a technical report or scientific paper and prepare a summary and critical review 3. Case of study and oral presentation. 4. Multi choice questions.

19.	<p>Assessment Criteria: A successful candidate should have or be able to do the following:</p> <p><i>Threshold</i> A basic understanding of the appropriate science and modelling approach and a reasonable understanding of the model results and their implications.</p> <p><i>Good</i> 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.</p> <p><i>Excellent</i> 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.</p>
20.	<p>Resource Implications of Proposal and Proposed Solutions: (Recommended Bibliography: compulsory, optional, other sources of information)</p> <p>Handbook of Oil Spill Science and Technology Editors(s):Merv Fingas DOI:10.1002/9781118989982 2015 John Wiley & Sons, Inc.</p> <p>Specific Resource Implications for Students: None</p>
21.	<p>Does this module replace existing provision? If so, please indicate modules to be replaced:</p> <p>The module fits in the area of “Chemical analysis of water quality “</p>
22.	<p>Start Date: First year, second semester</p>
23.	<p>Is it intended that the module be available every year?</p> <p>Possibly</p>