Education in Coastal Management for the Mediterranean
The Course

The Challenge

G.C. Malvarez\textsuperscript{1}, P. Minoia\textsuperscript{3}, A. Abul-Azm\textsuperscript{4},
M. Fredotovic\textsuperscript{5}, D. Povh\textsuperscript{6}, I. Trumbic\textsuperscript{6}.

\textsuperscript{1} Department of Physical Geography, Universidad Pablo de Olavide, Sevilla, Spain. (gcmalgar@upo.es)
\textsuperscript{3} Centre of Excellence for Sustainable Development in the Mediterranean Coastal Areas (CESD), Venice Italy
\textsuperscript{4} Faculty of Engineering, Irrigation and Hydraulics Department. Cairo University, Cairo, Egypt.
\textsuperscript{5} Faculty of Economics, Department of Economics, University of Split, Split, Croatia
\textsuperscript{6} Priority Actions Programme / Regional Activity Centre (PAP/RAC) Split, Croatia
The consortium

Modules

Mode

The course

La participación en el programa eLearning debe estar abierta a los países candidatos a la adhesión a la Unión Europea y los países EEE-AELC. Expertos y centros de enseñanza de otros terceros países deben poder participar en el intercambio de experiencia, en el marco de la cooperación establecida con estos países.

DECISIÓN No 2318/2003/CE DEL PARLAMENTO EUROPEO Y DEL CONSEJO de 5 de diciembre de 2003

Programa plurianual (2004-2006) para la integración efectiva de las tecnologías de la información y la comunicación (TIC) en los sistemas de educación y formación en Europa (programa eLearning)
Objectives

• An up-to-date review of educational programmes in coastal management for the Mediterranean.

• A highly flexible teaching and learning method to accommodate full and part time students

• Powerful communication and instructional design

• Focused field-based intensive training

• A strong view on the managerial aspects of Integrated Management of the Coast

• Follow ECTS to support learning based course structures

The consortium

• Modules

• Mode
The overall objective of the Educom@Med project is to create and implement a new curriculum for a postgraduate course in Coastal Management for the Mediterranean region. In terms of course content, the goal is to emphasise the managerial aspects of coastal planning. The main focus, from an educational standpoint, is to create a Mediterranean network sharing available teaching resources and capabilities in line with EU European Credit Transfer System principles and practice. This will be achieved by developing, lobbying and running an E-learning based programme that draws upon the experiences and expertise of the partner countries.

A field-based component will be carried out during the implementation of the programme to develop the necessary skills in a course of this nature. The project provides an opportunity for the consortium to develop curriculum, to acquire experience regarding methods for curriculum development according to the Bologna Declaration.

The Universities of the consortium exchange experience, work together on the elaboration of the course materials and teaching with the EU universities members.
• The consortium

• Universidade Pablo de Olavide, Sevilla (SPAIN)

• Universita Ca’ Foscari, Venecia (ITALY)

• Priority Action Programme / Regional Activity Centre, UNEP, CROATIA

• Cairo University, EGYPT

• University Split, CROATIA
I.- FUNDAMENTALS AND METHODS FOR ICAM

II.- COASTAL ECOSYSTEMS AND PROCESSES

III.- ICAM FRAMEWORK

IV.- SECTORAL POLICIES ON ICAM

V.- TOOLS AND TECHNIQUES FOR ICAM
<table>
<thead>
<tr>
<th>MODULE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>I.-FUNDAMENTALS AND METHODS FOR ICAM</td>
<td>The aim of this module is to provide the methodological basis for the understanding of the coast as a complex system, as well as to familiarise participants with the main ideas and purposes of ICAM. This module should provide participants with a common starting point for further studies, providing a &quot;common vocabulary&quot;.</td>
</tr>
<tr>
<td>II.- COASTAL ECOSYSTEMS AND PROCESSES</td>
<td>The module deals with the coastal area as a complex system comprising several and interdependent ecosystems. This complex system will be analysed both from a natural and anthropic induced processes stand point. This module will include lectures on coastal ecology and ecosystems, transitional ecosystems, geomorphological processes, coastal risks and hazards, biodiversity and landscape diversity, among others.</td>
</tr>
<tr>
<td>III.- ICAM FRAMEWORK</td>
<td>The module is design to build capacity on the management skills and challenges within ICAM. It includes management theory applied on the ICAM framework, which is analysed from the standpoint of the institutions, legislation, regional and coastal planning, financial framework, and management in the public sector. This is a central module to the overall aims of the course, since managerial aspects are highlighted throughout the curriculum.</td>
</tr>
<tr>
<td>IV.- SECTORAL POLICIES ON ICAM</td>
<td>Sectoral policies and actions are to be integrated into the ICAM framework, providing the solutions to the problems and conflicts identified in Module II. An integrated view on sectoral policy is intended. Relevant topics taught in this module are urban planning in coastal areas, conservation and protection of historical heritage, sustainable tourism and agriculture (and food security), responsible fishery and aquaculture in coastal areas, shoreline management, industry and energy, etc.</td>
</tr>
<tr>
<td>V.-TOOLS AND TECHNIQUES FOR ICAM</td>
<td>A toolbox style designed module provides participants with a set of techniques and transferable skills necessary for the implementation of ICAM principles. This module contemplates techniques such as strategic environmental assessment, information management (including remote sensing, GIS, etc.), social impact assessment, territorial impact assessment, conflict resolution, ICAM indicators, carrying capacity assessment, decision support systems, etc.</td>
</tr>
<tr>
<td>ECTS (credit points)</td>
<td>120</td>
</tr>
<tr>
<td>MODULE</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>--------</td>
<td>-------------</td>
</tr>
<tr>
<td>I.-FUNDAMENTALS AND METHODS FOR ICAM</td>
<td>The aim of this module is to provide the methodological basis for the understanding of the coast as a complex system, as well as to familiarise participants with the main ideas and purposes of ICAM. This module should provide participants with a common starting point for further studies, providing a &quot;common vocabulary&quot;.</td>
</tr>
<tr>
<td>MODULE</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>II.- COASTAL ECO SYSTEMS AND PROCESSES</td>
<td>The module deals with the coastal area as a complex system comprising several and interdependent ecosystems. This complex system will be analysed both from a natural and anthropic induced processes stand point. This module will include lectures on coastal ecology and ecosystems, transitional ecosystems, geomorphological processes, coastal risks and hazards, biodiversity and landscape diversity, among others.</td>
</tr>
<tr>
<td>MODULE</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>--------</td>
<td>-------------</td>
</tr>
<tr>
<td>III.- ICAM FRAMEWORK</td>
<td>The module is designed to build capacity on the management skills and challenges within ICAM. It includes management theory applied on the ICAM framework, which is analysed from the standpoint of the institutions, legislation, regional and coastal planning, financial framework, and management in the public sector. This is a central module to the overall aims of the course, since managerial aspects are highlighted throughout the curriculum.</td>
</tr>
</tbody>
</table>
### IV.- SECTORAL POLICIES ON ICAM

Sectoral policies and actions are to be integrated into the ICAM framework, providing the solutions to the problems and conflicts identified in Module II. An integrated view on sectoral policy is intended. Relevant topics taught in this module are urban planning in coastal areas, conservation and protection of historical heritage, sustainable tourism and agriculture (and food security), responsible fishery and aquaculture in coastal areas, shoreline management, industry and energy, etc.
<table>
<thead>
<tr>
<th>MODULE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>V.-TOOLS AND TECHNIQUES FOR ICAM</td>
<td>participants with a set of techniques and transferable skills necessary for the implementation of ICAM principles. This module contemplates techniques such as strategic environmental assessment, information management (including remote sensing, GIS, etc.), social impact assessment, territorial impact assessment, conflict resolution, ICAM indicators, carrying capacity assessment, decision support systems, etc.</td>
</tr>
</tbody>
</table>
• Regional variability of socioeconomic development

The challenge

• Taking in EU educational state of the art

• Taking in EU ICZM

• E-learning ?