



Intellectual Outputs 4.0

IO4A2: Development of Classroom Training for the International Masters Degree Modules

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PROJECT TITLE:

CARBON NEUTRAL MANAGEMENT OF SPORT MARINAS INTERNATIONAL
MASTER MODULES PROGRAMME (**INCAMP**)

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IO 04/A2 Development of Classroom Training for the International
Masters Degree Modules

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Module title	<i>CLIMATE CHANGE IMPACTS AND ADAPTATION</i>
Module unit code	<i>MODULE 1</i>
Reference organization	<i>BNU& EYEBB</i>
Number of ECTS credits	<i>10</i>
Mode of delivery	<i>Web-based learning</i>

LEARNING OUTCOMES OF THE MODULE

On successful completion of the module, the students are expected to acquire a number of generic and specific competences:

- a) Generic competences: (REPEAT IN ALL MODULES WITH MINOR CHANGES)
 - Adequate language skills: good reading comprehension skills with the topic of Climate Change Impacts and Adaptation.
 - Adaptability: flexible attitude towards changing circumstances (sectoral, design, production, innovation, history etc.) and acknowledgement of the constant need to learn new skills and new concepts in a changing environment;
 - Logical reasoning abilities: problem identification, creative search for solutions (both well-known ones and new ones), ability to follow logical inferences and elaborate formal reasoning in issues related with resource efficiency and sustainable green growth.
- b) Specific competences: (SPECIFIC TO EACH SUBJECT)

At the end of the module the learner will be expected to be able to:

- Demonstrate an understanding of the science of climate change.
- Demonstrate an understanding of biotic climate change adaptation.
- Critically evaluate climate change mitigation technology.

Syllabus

- Short description of the subject: The module introduces climate change impact and adaptation. The module reinforces the science of greenhouse effect, global warming and climate change and in the context of cumulative emissions, will introduce carbon budget calculations in a workshop. Students will explore geographically diverse marine and terrestrial climate envelopes and biotic adaptive responses to climate change, including winners, losers and invasive species, as well as carbon mitigation in soils. Students will gain an overview over technological mitigation measures, such as renewable energy generation, energy saving and emerging technologies. Numerical skills will be developed in problem solving workshops. Students will consider the value and effectiveness of governing climate change adaptation through international agreements, government policy, citizen action, and business initiatives.
- Objectives:
 1. To develop understanding of key global policy options and appreciation of their social and economic dimensions.
 2. To think critically, creatively and strategically about climate change adaptation and mitigation options.
 3. To build confidence in processing, analysing and presenting numerical and technological information related to climate change responses.



- Assessment:

ELEMENTS OF ASSESSMENT:

Examination 50% Coursework (Technical report) 50%

Module title	<i>Carbon Economics: Technology, Process and Planning</i>
Module unit code	<i>Module 2</i>
Reference organization	<i>Universidad de La Laguna - ULL</i>
Number of ECTS credits	<i>10</i>
Mode of delivery	<i>Web-based training</i>

Learning outcomes of the module

On successful completion of the module, the students are expected to acquire a number of generic and specific competences:

a) Generic competences:

- *Adequate language skills:* good reading comprehension skills with the topic of maritime transport and carbon management;
- *Adaptability:* flexible attitude towards changing circumstances (sectoral, design, production, innovation, history etc.) and acknowledgement of the constant need to learn new skills and new concepts in a changing environment;
- *Logical reasoning abilities:* problem identification, creative search for solutions (both well-known ones and new ones), ability to follow logical inferences and elaborate formal reasoning in issues related with resource efficiency and sustainable green growth.

b) Specific competences:

- Understanding of environmental management systems;
- Ability to design and plan a resource efficiency management system;
- Capacity to conduct a resource efficiency assessment;
- Ability to understand and use the concept of carbon footprint.

Syllabus

- Short description of the subject: This module will analyze the current energy model in Europe, the main renewable energies, what are the current measures being considered for the decarbonization of ports and, in addition, will study the two main environmental indicators that are the water footprint and the carbon footprint.
- Goal: Learning the goal towards which Europe is heading in terms of renewable energies; learning the characteristics of the main renewable energies; making an approach to the calculation of the carbon footprint with the case study that is completed.
- Objectives:
 - Objective 1: studying the main renewable energies
 - Objective 2: knowing the main impacts of the coal extraction
 - Objective 3: learning how to calculate the carbon footprint
- Units:
 - Unit 1: Introduction
 - Unit 2: Definition of Carbon Economics
 - Unit 3: Renewable energy
 - Unit 4: Environmental impact associated with the production and extraction of coal
 - Unit 5: Carbon footprint



Module title	<i>Waste Management</i>
Module unit code	<i>Module 3</i>
Reference organization	<i>Frederick University - FU</i>
Number of ECTS credits	<i>10</i>
Mode of delivery	<i>Web-based training</i>

LEARNING OUTCOMES OF THE MODULE

The module puts together basic concepts of solar photovoltaics and wind systems that will allow them to design grid-connected and off-grid photovoltaic and wind systems. On successful completion of the module, the students are expected to acquire a number of generic and specific competences:

a) Generic competences:

- Adequate language skills: good technical comprehension skills with the topic of Waste Management.
- Adaptability: flexible attitude towards changing circumstances (sectoral, design, production, innovation, history etc.) and acknowledgement of the constant need to learn new skills and new concepts in a changing environment;
- Logical reasoning abilities: problem identification, creative search for solutions (both well-known ones and new ones), ability to follow logical inferences and elaborate formal reasoning in issues related with resource efficiency and sustainable green growth.

b) Specific competences: (upon completion of this module, students will:)

- Become conversant in waste management by learning commonly-used terminology
- Identify basic waste characteristics and their associated environmental impacts
- Identify basic approaches and technologies in the treatment of liquid, solid, and hazardous waste
- Gain awareness of the changing perceptions of the waste sector towards resource management
- Understand the sources of environmental concern that are related to marinas
- ☑ Become aware of key Best Management Practices for handling waste in marinas

Syllabus

Marinas are becoming an increasingly popular type of coastal set of facilities, especially in such destinations as countries of the Mediterranean Sea, where tourism tends to predominate as an industry. The structures and the activities that surround marinas, and recreational boating in general, alongside other coastal development, has been putting environmental pressure on the already fragile coastal environment of countries. These pressures that coastal environments have been receiving has added the need to protect waterways and coastal waters and land. Environmental impacts can be especially severe in cases when associated facilities are poorly sited, planned or when associated operations are poorly managed. Construction and operation of marinas can pose a significant threat to the health of aquatic habitats. Non-point sources of pollution being prime most in marinas, it creates an imperative for the consideration of good practices in the planning construction, but also in the operation of these facilities.

The module on Waste Management addresses the following objectives:

- Define the types of waste anticipated in marinas
- Analyse the characteristics of this waste, alongside their anticipated impacts
- Present waste management technologies and practices, as these apply to marinas
- Suggest several Best Management Practices for waste management in marinas

The module includes a progress assessment that aims to test the student's adequacy in absorbing many of the concepts introduced during the various units of the study module. The module comprises of 5 distinct units, presented in separate chapters of the given Study Guide.

• Units / Chapters:

- o Chapter 1. Introduction & Definitions of Waste
- o Chapter 2. Regulatory Environment



- o Chapter 3: Characterization of Waste
- o Chapter 4: Collection, Treatment & Final Disposal Approaches
- o Chapter 5: Best Management Practices for Waste Management in Marinas
- **Assessment:** A final test that comprises of 10 questions seeks to examine whether students have formulated a spherical understanding of the issues involved in Waste Management and whether they can recall basic concepts that relate to the management (collection, treatment, and final disposal) of waste. (Note: multiple-choice style questions were not used for this module, since it has been deemed more important for students to be able to combine information presented, hence the more descriptive requirements of the questions included in the assessment).

Module title	<i>International Legislation and Regulations on Management of Sport Leisure Marinas and Boat Navigation</i>
Module unit code	<i>Module 4</i>
Reference organization	<i>10</i>
Number of ECTS credits	<i>Instituto Profissional de transportes e logistica madeira - IPTL</i>
Mode of delivery	<i>Web-based training</i>

LEARNING OUTCOMES OF THE MODULE

- On successful completion of the module, the students are expected to acquire a number of generic and specific competences:
- a) Generic competences:
 - Adequate language skills: good reading comprehension skills with the topic of maritime transport and carbon management;
 - Adaptability: flexible attitude towards changing circumstances (sectoral, design, production, innovation, history etc.) and acknowledgement of the constant need to learn new skills and new concepts in a changing environment;
 - Logical reasoning abilities: problem identification, creative search for solutions (both well-known ones and new ones), ability to follow logical inferences and elaborate formal reasoning in issues related with resource efficiency and sustainable green growth.
 - b) Specific competences:
 - Understanding of International legislation on Sports Leisure’s Marina and Boat Navigation;
 - Understanding the marine leisure sector and its limitations due to lack of standardisation
- Capacity to conduct a resource efficiency assessment;
- Understanding the impact of marinas on the European economy;
 - Identify the main international standards applied to recreational boating;
 - Identify the constraints of the marine leisure sector

Syllabus

- There is a lack of harmonisation of regulation in certain aspects of recreational boating (harmonization takes place in requirements on design, construction and emission characteristics of recreational craft, but to a less extent in the use of boats), which affects the competitiveness of the industry.
- The main goal is to know the international regulations related to the nautical sector.
- Units:
 - o Unit 1 - International legislation and regulations on management of sport leisure marinas
 - o Unit 2 – Boat Navigation
 - Assessment:

- Short test after each unit (6 questions each unit, multiple choice) and related with the theoretical and practical content of the unit.
- A final test of 20 (multiple choice) questions related to the theoretical and practical content of the whole subject (20 questions for each 3ECTs).

Module title	<i>Green Technology</i>
Module unit code	<i>Module 5</i>
Reference organization	<i>Frederick University - FU</i>
Number of ECTS credits	<i>10</i>
Mode of delivery	<i>Web-based training</i>

LEARNING OUTCOMES OF THE MODULE

The module puts together basic concepts of solar photovoltaics and wind systems that will allow them to design grid-connected and off-grid photovoltaic and wind systems. On successful completion of the module, the students are expected to acquire a number of generic and specific competences:

c) Generic competences:

- *Adequate language skills:* good technical comprehension skills with the topic of Green Technology.
- *Adaptability:* flexible attitude towards changing circumstances (sectoral, design, production, innovation, history etc.) and acknowledgement of the constant need to learn new skills and new concepts in a changing environment;
- *Logical reasoning abilities:* problem identification, creative search for solutions (both well-known ones and new ones), ability to follow logical inferences and elaborate formal reasoning in issues related with resource efficiency and sustainable green growth.

d) Specific competences: (SPECIFIC TO EACH SUBJECT)

- Identify and associate the properties of sunlight, solar geometry and wind
- Understand the fundamental operating mechanisms by which PV cells and wind turbines generate electrical energy
- Assess and examine solar radiation and wind data and measurements
- Classify the categories of solar photovoltaics and wind systems
- Identify the components and equipment associated with these systems
- Assess their technical characteristics
- Apply basic design principles

Syllabus

- Green technologies, also referred to as renewable energy, are renewable energy sources exploited towards a carbon free and sustainable environment. This module focuses on solar photovoltaics and wind systems applicable to marinas and yachts which are the focus of attention of this program. By studying this module, students will have better theoretical and technical understanding of these technologies and should be equipped with the necessary knowledge that will allow them to associate them with the applications and requirements such those under the actions of this program.

The module on Green Technology addresses the following objectives:

- a) Define the two green (renewable) technologies that are applicable to marinas and yachts namely, solar photovoltaics and wind systems
- b) Analyse their characteristics
- c) Demonstrate through examples and case studies their applications

The module is followed with an assessment aiming to test the student's knowledge on the above targets.

- Units:
 - Unit 1. Photovoltaic systems for marinas and yachts



- Unit 2. Small scale wind turbines and applications
- Assessment:
 - Short test after each unit (6 questions each unit, multiple choice) and related with the theoretical and practical content of the unit.
 - A final test of 20 (multiple choice) questions related to the theoretical and practical content of the whole subject (20 questions for each 3ECTs).

Module title	<i>Leisure Sport Marinas Management and Logistics</i>
Module unit code	<i>Module 6</i>
Reference organization	<i>Associação Marina FUNCHAL</i>
Number of ECTS credits	<i>10</i>
Mode of delivery	<i>Web-based training</i>

LEARNING OUTCOMES OF THE MODULE

On successful completion of the module, the students are expected to acquire a number of generic and specific competences:

- Generic competences:
 - Adequate language skills: good reading comprehension skills with the marina management and logistics topic.
 - Adaptability: flexible attitude towards changing circumstances (sectoral, design, production, innovation, history etc.) and acknowledgement of the constant need to learn new skills and new concepts in a changing environment.
 - Logical reasoning abilities: problem identification, creative search for solutions (both well-known ones and new ones), ability to follow logical inferences and elaborate formal reasoning in issues related with marina management.
- Specific competences:
 - Understanding the marina management importance;
 - Ability to plan an efficient marina;
 - Capacity to understand and manage the different available marina equipment's;
 - Ability to understand and provide efficient services to marina costumers.

Syllabus

- Short description of the subject:

This module will analyse the current situation regarding nautical tourism in Europe, importance of marinas and the marina management role. It will also examine the most import steps for planning a marina, the most common and basic infrastructures available and the logistic services that a marina should be able to provide to their clients.

- Goal:

Learning how to plan and manage an efficient marina; the current available equipment and procedures; main services provided to nautical costumers and logistics.

- Objectives:

Objective 1: studying the marina role in the nautical tourism context.

Objective 2: learning how to plan and manage an efficient sports marina.

Objective 3: knowing the main basic marina equipment's and operations.

- Units:

Unit 1: Introduction

Unit 2: Marina Planning



Unit 3: Marina Infrastructures

Unit 4: Marine Services Logistics

- Assessment:

Short test after each unit (6 questions each unit, multiple choice) and related with the theoretical and practical content of the unit. A final test of 20 (multiple choice) questions related to the theoretical and practical content of the whole subject (20 questions for each 3ECTs).

Module title	<i>Introduction to soft skills</i>
Module unit code	<i>Module 7</i>
Reference organization	<i>ECOSISTEMAS VIRTUALES Y MODULARES SL - EVM</i>
Number of ECTS credits	<i>10</i>
Mode of delivery	<i>Web-based training</i>

LEARNING OUTCOMES OF THE MODULE

On successful completion of the module, the students are expected to acquire a number of generic and specific competences:

a) Generic competences:

- Develop an understanding of the importance of soft skills including how soft skills are connected to technical or hard skills
- Raise awareness amongst students, teachers, and professionals by identifying necessary soft skills depending on expertise and assessing how soft skills can be improved
- Define and outline effective communication and leadership skills including best practices and the development of sense of self and culture

b) Specific competences:

- Enhance and tailor written, verbal, and non-verbal communication skills to various workplace audiences, including managers, teammates and clients
- Develop leadership skills and understanding of techniques for working well with team members and peers
- Recognize and develop idea of self in the workplace including emotional intelligence and intercultural awareness
- Demonstrate practical and efficient understanding of uses of creativity, brainstorming and playing in the workplace
- Develop understanding of how to engage in successful business interactions, including how to work efficiently and interact as a part of a team and individually
- Improve critical thinking, problem solving and negotiation skills in response to the needs of various constituents in workplace settings

Syllabus

- Short description of the subject: In this module we will address the main concepts related to a general vision of Soft Skills. This includes their importance, definitions, explanations, theories, and tools to identify and improve them individually.
- Goal: The goal of the module is to acquire a general view of soft skills and the importance of the practical use and understanding of these skills in order to properly behave in differing environments and situations.
- Objectives: (specific objectives in connection with competences)
 - o To learn some definitions of soft skills
 - o To understand various soft skills and when to apply them
 - o To gain a general view of the importance of soft skills
 - o To develop communicative skills for various environments
 - o To understand the concept of soft skills as a necessary life-long learning process
 - o To improve soft skills in the field using the tools given in this module



● Units:

- o Unit 1: Communication
- o Unit 2: Leadership
- o Unit 3: Critical Thinking and Intercultural Awareness
- o Unit 4: Teamwork and Goal-Setting
- o Unit 5: Time and resource management
- o Unit 6: Creativity
- o Unit 7: Sustainable Thinking

● Assessment:

o A final test of 10 (multiple choice) questions related to the theoretical and practical content of the whole subject (10 questions for each 3ECTs).

Module title	<i>Research methodologies for operations management</i>
Module unit code	<i>Module 8</i>
Reference organization	<i>Università degli studi di Palermo - UNIPA</i>
Number of ECTS credits	<i>10</i>
Mode of delivery	<i>Web-based training</i>

LEARNING OUTCOMES OF THE MODULE

On successful completion of the module, the students are expected to acquire a number of generic and specific competences:

a) Generic competences:

- *Adequate language skills*: good reading comprehension skills with the topic of research methodologies for operations management.
- *Adaptability*: flexible attitude towards changing circumstances (sectoral, design, production, innovation, history etc.) and acknowledgement of the need of a rigorous approach through the application of different research methods
- *Logical reasoning abilities*: problem identification, creative search for solutions (both well-known ones and new ones), ability to follow logical inferences and elaborate formal reasoning in issues related with the choice of the right method when conducting operations management research.

b) Specific competences: (SPECIFIC TO EACH SUBJECT)

- Knowledge of the main research methodologies in Operations Management;
- Ability to identify the suitable research method for a given research;
- Understanding of the advantages and limits of each method;
- Ability to design a meaningful research in the Operations Management field.

Syllabus

Short description of the subject: This module contains a discussions of research philosophy and methodology used in the Operation Management field. The importance of the relationship between the maturity of knowledge and the different research methods will be a analysed in order to understand how to leverage existing knowledge within the research process. Survey research, action research and longitudinal research methodologies will be extensively discussed.

- Goal: Learning the importance and main characteristics of the research activity in Operations Management.
- Objectives: (specific objectives in connection with competences)
 - o Understanding the importance of Operations Management research
 - o Learn the phases of a research process in Operations Management
 - o Learn the lexicon
 - o Understanding the importance of knowledge in Operations Management research
 - o Learn how to manage literature for a research
 - o Learn how to develop research questions
 - o Understanding the field of research where a specific methodology is a feasible method for Operations Management research
 - o Learn strength and weaknesses of the research methodologies
- Units:



- o Unit 1. Research activity overview
- o Unit 2. Research Process
- o Unit 3. Survey
- o Unit 4. Action Research
- o Unit 5. Longitudinal field studies
 - Assessment:
- o Short test after each unit (6 questions each unit, multiple choice) related with the theoretical and practical content of the unit.

Module title	<i>Report I (Report on relevant Seminars, Webinars and Events that relates to carbon neutral management)</i>
Module unit code	<i>Module 9</i>
Reference organization	<i>UNIVERSIDAD DE LA LAGUNA - ULL</i>
Number of ECTS credits	<i>5</i>
Mode of delivery	<i>Web-based training</i>

Syllabus

ECTS is the system of credits for higher education used in the European Union, which includes all the countries involved in the Bologna process.

1 ECTS credit is equivalent to 20 hours of autonomous student work. Therefore, to obtain the recognition of 1 ECTS, the following activities can be done: seminars, courses, conferences, etc. (these activities can be combined). To this end, the duration of the mentioned activities will be as follows:

- Online or face-to-face courses: minimum 10 teaching hours
- Workshops: minimum two days
- National and International conferences: minimum two days

The key aspect is to reach 20 hours of autonomous work. In addition, an official certificate of the activity is required, with the stamp of the organizing entity, the hours of duration and the clear identification of the student.

In order to recognize credits through a course, the following requirements must be met:

- Credible student identification
- Duration of the activity, in hours and/or credits
- Date of the activity, and of the issuance of the certificate
- Signature and stamp of the organizer (or digital signature)
- No clippings or handwritten corrections



Module title	<i>Report II (Reflective report on placement)</i>
Module unit code	<i>Module 10</i>
Reference organization	<i>BUCKINGHAMSHIRE NEW UNIVERSITY - BUCKS</i>
Number of ECTS credits	<i>5</i>
Mode of delivery	<i>Web-based training</i>

LEARNING OUTCOMES OF THE MODULE

On successful completion of the module, the students are expected to acquire a number of generic and specific competences:

a) Generic competences: (REPEAT IN ALL MODULES WITH MINOR CHANGES)

- *Adequate language skills*: good reading comprehension skills with the topic of Dissertation
- *Adaptability*
- *Logical reasoning abilities*

Syllabus

- Short description of the subject:
Guidance for writing up your placement report
You are required to produce a placement report and a poster at the end of your placement. We recommend that you speak to your supervisor early on in your placement, as they may be able to answer any questions you have and provide you with useful information and background reading.
- Report II guidelines:
 1. Information should be factual. Any opinions expressed should be clearly stated as opinions.
 2. Reports completed at the end of the course will automatically be forwarded by the University to the supervisor.
 3. This report is confidential, and circulation will be restricted to the following: i) the lead supervisor in each placement centre, ii) the student, iii) the university placement co-ordinator, iv) the undergraduate programme secretary at the university.
 4. The report is valid only for reporting the placement year and should not be used for any other purpose.
 5. Satisfactory reports from placement supervisors are a requirement for successful completion of the placement year by the student.



Module title	<i>DISSERTATION</i>
Module unit code	<i>Module 11</i>
Reference organization	<i>BUCKINGHAMSHIRE NEW UNIVERSITY - BUCKS</i>
Number of ECTS credits	<i>30</i>
Mode of delivery	<i>Web-based training</i>

LEARNING OUTCOMES OF THE MODULE

On successful completion of the module, the students are expected to acquire a number of generic and specific competences:

a) Generic competences: (REPEAT IN ALL MODULES WITH MINOR CHANGES)

- *Adequate language skills*: good reading comprehension skills with the topic of Dissertation
- *Adaptability*
- *Logical reasoning abilities*

b) Specific competences: (SPECIFIC TO EACH SUBJECT)

- E.g. Understanding of environmental management systems;
- Ability to design and plan a resource efficiency management system;
- Capacity to conduct a resource efficiency assessment;
- Ability to understand and use the concept of ecological footprint.

Syllabus

- Short description of the subject:

The module offers an exciting opportunity to carry out your own research, rather than just learning about what other researchers and academics have written. As a result it is rather different from other modules you have studied until now, in fact a large amount of your time will be spent carrying out your own research and writing it up in the form of a dissertation. During this time you will manage your time and the activities you need to complete for your own research.

- Objectives:

The aim of the module is to enable you to carry out a focused piece of research in the subject area of your degree, and to write up the research and conclusions in a dissertation. In doing this you will learn how to:

- identify and justify a suitable topic for research and related research questions
- carry out a literature search and write a critical review of the literature relevant to your chosen topic
- develop a methodology and plan for carrying out your research
- carry out your empirical research by collecting the research data you need
- analyse your research data and interpret the results to draw conclusions
- write up your research in the form of a dissertation.



- Learning outcomes:
 - A. Knowledge and understanding of:
 - The literature relevant to your dissertation topic.
 - Research design and research methods appropriate for addressing the topic of the dissertation.
 - Theory relevant to the dissertation topic.
 - Procedures for gaining ethical approval and relevant codes of ethics.
 - B. Cognitive skills – be able to:
 - Evaluate published research and information across a range of areas relevant to the dissertation topic.
 - Assess the relevance of theory for understanding practice.
 - Develop and justify original arguments with reference to the work of others.
 - C. Key skills – be able to:
 - Identify and justify a suitable topic for research, setting out clear research aims and questions.
 - Access and critically review relevant published research and information across a range of areas relevant to the topic.
 - Gain access to relevant research settings and sources of empirical data.
 - Justify the choice of research design and different research methods.
 - Collect and analyse qualitative and quantitative information derived from the research.
 - Recognise the ethical issues that may arise during research and how to address them drawing, as appropriate, on ethical and professional guidelines.
 - Interpret and discuss findings in relation to the original research questions and relevant literature.
 - Draw appropriate conclusions from the research and discuss any limitations of the research.
 - Professionally present material and argument in an appropriate structure, with clear and accurate referencing.
 - D. Practical and professional skills – be able to:
 - Manage time effectively.
 - Plan a research project.
 - Communicate effectively, both orally and in writing, using a range of media for both academic and professional audiences.
 - Use information technology and software packages effectively in communicating and working collaboratively with others and in accessing and managing information, in accordance with the requirements of the Digital Information Literacy Levels Framework.