List of Subjects in English at the University of Oviedo

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2015 - 2016
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Erasmus Mundus

Erasmus Mundus Master’s Degree in Emergency and Critical Care Nursing (Campus Cristo/HUCA, Oviedo)

Evidence-based Clinical Practice: Critical Care (EMECCN01-1-005)
Degree: Erasmus Mundus Master’s Degree in Emergency and Critical Care Nursing
Year: 1  Semester: 2
Type: Internship
ECTS Credits: 6
Structure: Clinical practice (120h)
Requirements: To perform this practicum the student has to perform previously the modules of advanced clinical nursing, advanced adult and geriatric clinical nursing, advanced pediatric clinical nursing
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=8003

Evidence-based Clinical Practice: Emergency Care (EMECCN01-1-006)
Degree: Erasmus Mundus Master’s Degree in Emergency and Critical Care Nursing
Year: 1  Semester: 2
Type: Internship
ECTS Credits: 6
Structure: Clinical practice (120h)
Requirements: To perform this practicum the student has to perform previously the modules of advanced clinical nursing, advanced adult and geriatric clinical nursing, advanced pediatric clinical nursing
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=8011

Clinical Practice: Adult (EMECCN01-1-007)
Degree: Erasmus Mundus Master’s Degree in Emergency and Critical Care Nursing
Year: 1  Semester: 2
Type: Optional
ECTS Credits: 18
Structure: Clinical practice (360h)
Requirements: To perform this practicum the student has to perform previously the modules of advanced clinical nursing, adult advanced clinical nursing, evidence based clinical practice: emergency care and evidence based clinical practice: critical care
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=8012
Clinical Practice: Geriatrics (EMECCN01-1-008)
Degree: Erasmus Mundus Master’s Degree in Emergency and Critical Care Nursing
Year: 1  Semester: 2
Type: Optional  ECTS Credits: 18
Structure: Clinical practice (360h)
Requirements: To perform this practicum the student has to perform previously the modules of advanced clinical nursing, adult advanced clinical nursing, evidence based clinical practice: emergency care and evidence based clinical practice: critical care
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?asignatura=8013

Clinical Practice: Paediatrics (EMECCN01-1-009)
Degree: Erasmus Mundus Master’s Degree in Emergency and Critical Care Nursing
Year: 1  Semester: 2
Type: Optional  ECTS Credits: 18
Structure: Clinical practice (360h)
Requirements: To perform this practicum the student has to perform previously the modules of advanced clinical nursing, advanced paediatric clinical nursing, evidence based clinical practice: emergency care and evidence based clinical practice: critical care
Course description and schedule:

Oncologic Care (EMECCN01-2-003)
Degree: Erasmus Mundus Master’s Degree in Emergency and Critical Care Nursing
Year: 2  Semester: 1
Type: Optional  ECTS Credits: 6
Structure: Lectures (3h), Clinical practice (112h), Practical Sessions (3h), group tutorials (2h)
Requirements: Advanced clinical nursing module
Course description and schedule:

Transplant Care (EMECCN01-2-004)
Degree: Erasmus Mundus Master’s Degree in Emergency and Critical Care Nursing
Year: 2  Semester: 1
Type: Optional  ECTS Credits: 6
Structure: Lectures (3h), Clinical practice (112h), Practical Sessions (3h), group tutorials (2h)
Requirements: Advanced clinical nursing module
Course description and schedule:
Erasmus Mundus Master’s Degree in Women and Gender Studies (Campus Milan, Oviedo)

**Postcolonialism: Diaspora and Representation of Women** (EMGENYDI-0-002)
- **Degree:** Erasmus Mundus Master’s Degree in Women and Gender Studies
- **Year:** Any  **Semester:** 1
- **Type:** Optional  **ECTS Credits:** 6
- **Structure:** Lectures (30h), Practical Sessions (15h)
- **Requirements**

**Specialized Research Seminar** (EMGENYDI-0-003)
- **Degree:** Erasmus Mundus Master’s Degree in Women and Gender Studies
- **Year:** Any  **Semester:** 1
- **Type:** Optional  **ECTS Credits:** 6
- **Structure:** Practical Sessions (52.5h)
- **Requirements**
  - Course description and schedule: [http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=2436](http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=2436)

**Space, Body, Gender** (EMGENYDI-0-004)
- **Degree:** Erasmus Mundus Master’s Degree in Women and Gender Studies
- **Year:** Any  **Semester:** 1
- **Type:** Optional  **ECTS Credits:** 6
- **Structure:** Lectures (30h), Practical Sessions (15h)
- **Requirements**
  - Completion of 1st year GEMMA
  - Course description and schedule: [http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=3989](http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=3989)

**Women in Films and the Visual Arts** (EMGENYDI-0-005)
- **Degree:** Erasmus Mundus Master’s Degree in Women and Gender Studies
- **Year:** Any  **Semester:** 1
- **Type:** Optional  **ECTS Credits:** 6
- **Structure:** Lectures (30h), Practical Sessions (15h)
- **Requirements**
  - Completion of 1st year GEMMA. The subject requires understanding of the main framework of feminist film criticism and theory, as well as background knowledge of theoretical concepts of cultural studies.
**Nation and Gender** (EMGENYDI-0-006)
Degree: Erasmus Mundus Master’s Degree in Women and Gender Studies
Year: Any  Semester: 1
Type: Optional  ECTS Credits: 6
Structure: Lectures (30h), Practical Sessions (15h)
Requirements Completion of 1st year GEMMA.
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=3997

**Women in European Texts: Comparative and perspectives** (EMGENYDI-0-007)
Degree: Erasmus Mundus Master’s Degree in Women and Gender Studies
Year: Any  Semester: 1
Type: Optional  ECTS Credits: 6
Structure: Lectures (30h), Practical Sessions (15h)
Requirements Completion of 1st year GEMMA. Good knowledge of English. The more students have read and thought about the development of social, cultural and literary roles, the better they will be able to profit from the discussions
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=2433

**Erasmus Mundus Master’s Degree in Public Health in Disasters** (Campus Cristo, Oviedo)

**Introductory Course** (EMSPUD01-1-001)
Degree: Erasmus Mundus Master’s Degree in Public Health in Disasters
Year: 1  Semester: 1
Type: Compulsory  ECTS Credits: 2
Structure: Lectures (15h)
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=19378

**Disaster Risk Assessment, Management and Reduction** (EMSPUD01-1-002)
Degree: Erasmus Mundus Master’s Degree in Public Health in Disasters
Year: 1  Semester: 1
Type: Compulsory  ECTS Credits: 7
Structure: Lectures (31h), Practical Sessions (17.5), Group tutorials (1h), Laboratory and field work (3h)
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=19379
Disaster Types (EMSPUD01-1-003)
Degree: Erasmus Mundus Master’s Degree in Public Health in Disasters
Year: 1    Semester: 1
Type: Compulsory
ECTS Credits: 3
Structure: Lectures (16h), Practical Sessions (4.5), Group tutorials (1h),
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=19380

General Disaster Responses (EMSPUD01-1-004)
Degree: Erasmus Mundus Master’s Degree in Public Health in Disasters
Year: 1    Semester: 1
Type: Compulsory
ECTS Credits: 3
Structure: Lectures (39h), Practical Sessions (15), Group tutorials (2h), Laboratory and field work (4h)
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=19381

Public Health Response in Disasters (EMSPUD01-1-005)
Degree: Erasmus Mundus Master’s Degree in Public Health in Disasters
Year: 1    Semester: 1
Type: Optional
ECTS Credits: 20
Structure:
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=19383

Advanced Disasters Epidemiology and Research Methods (EMSPUD01-1-006)
Degree: Erasmus Mundus Master’s Degree in Public Health in Disasters
Year: 1    Semester: 1
Type: Optional
ECTS Credits: 20
Structure:
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=193834
Internship (EMSPUD01-1-007)
Degree: Erasmus Mundus Master’s Degree in Public Health in Disasters
Year: 1  Semester: 2
Type: Internship
ECTS Credits: 5
Structure:
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=193835

Internship (EMSPUD01-1-007)
Degree: Erasmus Mundus Master’s Degree in Public Health in Disasters
Year: 1  Semester: 2
Type: Degree Final Project
ECTS Credits: 15
Structure:
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=193836

Erasmus Mundus Master’s Degree in Sustainable Transportation and Electrical Power Systems (Campus Gijón)

Introduction to Renewable Power Systems, Electrical Traction and Energy Efficiency (EMSTEP01-1-001)
Degree: Erasmus Mundus Master’s Degree in Sustainable Transportation and Electrical Power Systems
Year: 1  Semester: 1
Type: Compulsory
ECTS Credits: 3
Structure: Lectures (4h), Practical Sessions (15h), Group tutorials (3.5h)
Requirements: The student should handle the concepts expressed in Power Plants, Electrical energy transport, Power systems operation and Distributed generation systems and power quality
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=18574
**Economic and Financial System** (EMSTEP01-2-001)

**Degree:** Erasmus Mundus Master’s Degree in Sustainable Transportation and Electrical Power Systems  
**Year:** 2  
**Semester:** 1  
**Type:** Optional  
**ECTS Credits:** 6  
**Structure:** Lectures (7h), Practical Sessions (30h), Group tutorials (8h)  
**Requirements** The student should handle the concepts expressed in Power Plants, Electrical energy transport, Power systems operation and Distributed generation systems and power quality  
**Course description and schedule:**  
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=8025

**Project Management** (EMSTEP01-2-002)

**Degree:** Erasmus Mundus Master’s Degree in Sustainable Transportation and Electrical Power Systems  
**Year:** 2  
**Semester:** 1  
**Type:** Optional  
**ECTS Credits:** 4  
**Structure:** Lectures (7h), Practical Sessions (30h), Group tutorials (8h)  
**Requirements** The student should handle the concepts expressed in Power Plants, Electrical energy transport, Power systems operation and Distributed generation systems and power quality  
**Course description and schedule:**  
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=8026

**Electrical Markets** (EMSTEP01-2-003)

**Degree:** Erasmus Mundus Master’s Degree in Sustainable Transportation and Electrical Power Systems  
**Year:** 2  
**Semester:** 1  
**Type:** Optional  
**ECTS Credits:** 4  
**Structure:** Lectures (7h), Practical Sessions (30h), Group tutorials (8h)  
**Requirements** The student should handle the concepts expressed in Power Plants, Electrical energy transport, Power systems operation and Distributed generation systems and power quality  
**Course description and schedule:**  
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=8027
**Applied Simulation to Power Systems** (EMSTEP01-2-005)

*Degree:* Erasmus Mundus Master’s Degree in Sustainable Transportation and Electrical Power Systems  
*Year:* 2  
*Semester:* 1  
*Type:* Optional  
*ECTS Credits:* 3  
*Structure:* Lectures (6.5h), Practical Sessions (11.5h), Group tutorials (2h), Laboratory and field work (2.5h)  

**Requirements** The students must certify that they have passed basic skills and competences in power generation, transmission and distribution systems. This can be either accomplished at his/her incoming student profile and CV or, if not covered there, by passing the related subjects of the first and second semesters.  

**Course description and schedule:**  
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=8029

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**Energy Storing and Recovering in Power Systems and Hybrid/Electric Vehicles** (EMSTEP01-2-007)

*Degree:* Erasmus Mundus Master’s Degree in Sustainable Transportation and Electrical Power Systems  
*Year:* 2  
*Semester:* 1  
*Type:* Optional  
*ECTS Credits:* 6  
*Structure:* Lectures (9.5h), Practical Sessions (22h), Group tutorials (4h), Laboratory and field work (9.5h)  

**Requirements**  

**Course description and schedule:**  
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=8031

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**Smartgrids and Microgrids** (EMSTEP01-2-008)

*Degree:* Erasmus Mundus Master’s Degree in Sustainable Transportation and Electrical Power Systems  
*Year:* 2  
*Semester:* 1  
*Type:* Optional  
*ECTS Credits:* 6  
*Structure:* Lectures (9.5h), Practical Sessions (22h), Group tutorials (4h), Laboratory and field work (9.5h)  

**Requirements** The students must certify that they have passed basic skills and competences in power generation, transmission and distribution systems. This can be either accomplished at his/her incoming student profile and CV or, if not covered there, by passing the related subjects of the first and second semesters.  

**Course description and schedule:**  
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=8032
**Applied Simulation to Electrical Transportation** (EMSTEP01-2-009)
*Degree:* Erasmus Mundus Master’s Degree in Sustainable Transportation and Electrical Power Systems
*Year:* 2  *Semester:* 1
*Type:* Optional
*ECTS Credits:* 3
**Structure:** Lectures (6.5h), Practical Sessions (11.5h), Group tutorials (2h), Laboratory and field work (2.5h)

**Requirements** The student must have passed completely the 60 ECTS corresponding to the first year of the master. It is also recommended to be simultaneously coursing the subjects corresponding to the scientific-technical research track.

**Course description and schedule:**
http://sies.uniovi.es/ofe-pod-jst/ofertaFormativaServlet?&asignatura=8033

**Electromagnetic Compatibility** (EMSTEP01-2-011)
*Degree:* Erasmus Mundus Master’s Degree in Sustainable Transportation and Electrical Power Systems
*Year:* 2  *Semester:* 1
*Type:* Optional
*ECTS Credits:* 4.5
**Structure:** Lectures (7h), Practical Sessions (16.5h), Group tutorials (3.75h), Laboratory and field work (7h)

**Requirements**

**Course description and schedule:**
http://sies.uniovi.es/ofe-pod-jst/ofertaFormativaServlet?&asignatura=18576

**Electrical Transportation Laboratory** (EMSTEP01-2-012)
*Degree:* Erasmus Mundus Master’s Degree in Sustainable Transportation and Electrical Power Systems
*Year:* 2  *Semester:* 1
*Type:* Optional
*ECTS Credits:* 3
**Structure:** Lectures (2h), Practical Sessions (10h), Group tutorials (3.5h), Laboratory and field work (22h)

**Requirements** The students must certify that they have passed basic skills and competences in power generation, transmission and distribution systems. This can be either accomplished at his/her incoming student profile and CV or, if not covered there, by passing the related subjects of the first year

**Course description and schedule:**
http://sies.uniovi.es/ofe-pod-jst/ofertaFormativaServlet?&asignatura=18577
Power Systems Laboratory (EMSTEP01-2-013)
Degree: Erasmus Mundus Master’s Degree in Sustainable Transportation and Electrical Power Systems
Year: 2       Semester: 1
Type: Optional
ECTS Credits: 3
Structure: Lectures (2h), Practical Sessions (10h), Group tutorials (3.5h), Laboratory and field work (22h)
Requirements The students must certify that they have passed basic skills and competences in power generation, transmission and distribution systems. This can be either accomplished at his/her incoming student profile and CV or, if not covered there, by passing the related subjects of the first year.
Course description and schedule:

Electrical Energy and Cooperation for Development (EMSTEP01-2-013)
Degree: Erasmus Mundus Master’s Degree in Sustainable Transportation and Electrical Power Systems
Year: 2       Semester: 1
Type: Optional
ECTS Credits: 2
Structure: Lectures (7.5h), Practical Sessions (7.5h)
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?asignatura=18579

Power Systems for Electrical Transportation (EMSTEP01-2-017)
Degree: Erasmus Mundus Master’s Degree in Sustainable Transportation and Electrical Power Systems
Year: 2       Semester: 1
Type: Optional
ECTS Credits: 4.5
Structure: Lectures (16h), Practical Sessions (7h), Group tutorials (3.75h), Laboratory and field work (7h)
Requirements The students must certify that they have passed basic skills and competences in power generation, transmission and distribution systems, by passing the related subjects of the first and second semesters.
Course description and schedule:
Design of Hybrid and Electric Vehicles (EMSTEP01-2-018)
Degree: Erasmus Mundus Master’s Degree in Sustainable Transportation and Electrical Power Systems
Year: 2  Semester: 1
Type: Optional
ECTS Credits: 9
Structure: Lectures (11h), Practical Sessions (4.75h), Group tutorials (2h), Laboratory and field work (4.75h)
Requirements It is highly recommended to keep the schedule of this course as it appears in the program guide (verification report). Particularly, the student is expected to have taken the following subjects: Electric Machines for generation and traction, Dynamic analysis and modeling of electrical machines, Control of electromechanical systems, Dynamic control of AC machines, Power electronics circuits. The contents of this subject will be further complemented by another two subjects in the topic of HEV and EV: Energy storing and recovering in power systems and HEV and EV, Applied simulation to HEV/EV
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=18650
**Sciences**

**Master’s Degree in Marine Biodiversity and Conservation (EMBC+) (Campus Cristo, Oviedo)**

**Marine Protected Areas (EMBIOMAR-1-001)**  
Degree: Master’s Degree in Marine Biodiversity and Conservation (EMBC+)  
Year: 1  Semester: 1  
Type: Optional  
ECTS Credits: 3  
Structure: Lectures (12.5h), Practical Sessions (7.5h), Laboratory and field work (15h)  
Requirements  
Course description and schedule:  
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=2401

**Biodiversity of Marine Foodwebs (EMBIOMAR-1-002)**  
Degree: Master’s Degree in Marine Biodiversity and Conservation (EMBC+)  
Year: 1  Semester: 1  
Type: Optional  
ECTS Credits: 3  
Structure: Lectures (20h), Practical Sessions (5h), Laboratory and field work (10h)  
Requirements  
Course description and schedule:  
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=2391

**Genetic Biodiversity (EMBIOMAR-1-003)**  
Degree: Master’s Degree in Marine Biodiversity and Conservation (EMBC+)  
Year: 1  Semester: 1  
Type: Optional  
ECTS Credits: 3  
Structure: Lectures (13h), Practical Sessions (10h), Group tutorials (6h) Laboratory and field work (4h)  
Requirements Introductory genetics  
Course description and schedule:  
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=2392
Population Biology Applied to Conservation (EMBIOMAR-1-005)
Degree: Master’s Degree in Marine Biodiversity and Conservation (EMBC+)
Year: 1  Semester: 1
Type: Optional
ECTS Credits: 3
Structure: Lectures (15h), Laboratory and field work (15h)
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=2383

Global Change (EMBIOMAR-1-006)
Degree: Master’s Degree in Marine Biodiversity and Conservation (EMBC+)
Year: 1  Semester: 1
Type: Optional
ECTS Credits: 3
Structure: Lectures (16h), Practical Sessions (8h), Group tutorials (3h) Laboratory and field work (5h)
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=2396

Impact Detection and Assessment (EMBIOMAR-1-007)
Degree: Master’s Degree in Marine Biodiversity and Conservation (EMBC+)
Year: 1  Semester: 1
Type: Optional
ECTS Credits: 3
Structure: Lectures (10h), Group tutorials (10h), Laboratory and field work (10h)
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=2384

Evolution and Biogeography of Aquatic Organisms (EMBIOMAR-1-008)
Degree: Master’s Degree in Marine Biodiversity and Conservation (EMBC+)
Year: 1  Semester: 1
Type: Optional
ECTS Credits: 3
Structure: Lectures (16h), Practical Sessions (10h), Group tutorials (10h), Laboratory and field work (2h)
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=2402
Biological Invasion (EMBIOMAR-1-009)
Degree: Master’s Degree in Marine Biodiversity and Conservation (EMBC+)
Year: 1  Semester: 1
Type: Optional
ECTS Credits: 3
Structure: Lectures (10h), Practical Sessions (6h), Laboratory and field work (5h)
Requirements Biology and Ecology at Grade level
Course description and schedule: http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=2393

Ecological Modelling (EMBIOMAR-1-012)
Degree: Master’s Degree in Marine Biodiversity and Conservation (EMBC+)
Year: 1  Semester: 1
Type: Optional
ECTS Credits: 3
Structure: Lectures (10h), Practical Sessions (25h), Group tutorials (2.5h)
Requirements
Course description and schedule: http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=2389

Molecular Techniques and their Applications (EMBIOMAR-1-016)
Degree: Master’s Degree in Marine Biodiversity and Conservation (EMBC+)
Year: 1  Semester: 1
Type: Optional
ECTS Credits: 3
Structure: Lectures (5h), Practical Sessions (5h), Group tutorials (2.5h), Laboratory and field work (25h)
Requirements
Course description and schedule: http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=2381

Aquaculture (EMBIOMAR-1-017)
Degree: Master’s Degree in Marine Biodiversity and Conservation (EMBC+)
Year: 1  Semester: 1
Type: Optional
ECTS Credits: 3
Structure: Lectures (13h), Practical Sessions (6h), Group tutorials (4h), Laboratory and field work (12h)
Requirements
Course description and schedule: http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=2398
Legal and Economic Aspects of Marine Resources (EMBIOMAR-1-020)
Degree: Master’s Degree in Marine Biodiversity and Conservation (EMBC+)
Year: 1 Semester: 1
Type: Optional
ECTS Credits: 3
Structure: Lectures (27h), Practical Sessions (10h)
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=2387

Integrated Coastal Zone Management (EMBIOMAR-1-025)
Degree: Master’s Degree in Marine Biodiversity and Conservation (EMBC+)
Year: 1 Semester: 1
Type: Optional
ECTS Credits: 3
Structure: Lectures (10h), Group tutorials (10h), Laboratory and field group (15h)
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=2380

Geographic Information Systems and Remote-Sensing (EMBIOMAR-1-033)
Degree: Master’s Degree in Marine Biodiversity and Conservation (EMBC+)
Year: 1 Semester: 1
Type: Optional
ECTS Credits: 3
Structure: Lectures (12.5h), Practical Sessions (25h)
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=2397

Internship (EMBIOMAR-1-030)
Degree: Master’s Degree in Marine Biodiversity and Conservation (EMBC+)
Year: 1 Semester: 1
Type: Optional
ECTS Credits: 3
Structure: Non-presential (20h)
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=2386
Spanish Intensive Courses for Erasmus Students (EMBIOMAR-1-024)
Degree: Master’s Degree in Marine Biodiversity and Conservation (EMBC+)
Year: 1    Semester: 1
Type: Optional
ECTS Credits: 4
Structure: Lectures (17h), Practical Sessions (21h), Group tutorials (2h)
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=3173

Master Thesis (EMBIOMAR-1-015)
Degree: Master’s Degree in Marine Biodiversity and Conservation (EMBC+)
Year: 1    Semester: 2
Type: Degree Final Project
ECTS Credits: 30
Structure:
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=2399

Master’s Degree in Environmental and Health Technology (Campus Cristo, Oviedo)

Bacterial Biotechnology (MBMAMS01-1-001)
Degree: Master’s Degree in Environmental and Health Technology
Year: 1    Semester: 1
Type: Compulsory
ECTS Credits: 4
Structure: Lectures (16h), Practical Sessions (10h), Group tutorials (4h)
Requirements To make better use of the issues discussed in the subject Bacterial Biotechnology it is necessary to have a basic knowledge about molecular biology and microbiology. For this reason the requirements to participate in this class are to possess a degree in Molecular Biology, Biochemistry, pharmacy, Genetics, Microbiology and/or veterinary.
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6422
Animal Cell Biotechnology (MBMAMS01-1-002)
Degree: Master’s Degree in Environmental and Health Technology
Year: 1  Semester: 1
Type: Compulsory
ECTS Credits: 4
Structure: Lectures (10h), Practical Sessions (8h), Group tutorials (4h), Laboratory and field work (8h)
Requirements To adequately take advantage of the subject it is desirable to have knowledge of the following: Biology, cell biology, basic lab safety and aseptic technique.
Course description and schedule: http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6423

Biotechnology of Filamentous Fungi and Yeasts (MBMAMS01-1-003)
Degree: Master’s Degree in Environmental and Health Technology
Year: 1  Semester: 1
Type: Compulsory
ECTS Credits: 4
Structure: Lectures (16h), Practical Sessions (10h), Group tutorials (4h)
Requirements To follow the course it is desirable to have knowledge of genetics, biochemistry and molecular biology at undergraduate level
Course description and schedule: http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6424

Genomic and Nucleic Acid Biotechnology (MBMAMS01-1-004)
Degree: Master’s Degree in Environmental and Health Technology
Year: 1  Semester: 1
Type: Compulsory
ECTS Credits: 4
Structure: Lectures (10h), Practical Sessions (16h), Group tutorials (4h)
Requirements To follow the course it is desirable to have knowledge of genetics and molecular biology at undergraduate level
Course description and schedule: http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6425

Plant Biotechnology (MBMAMS01-1-005)
Degree: Master’s Degree in Environmental and Health Technology
Year: 1  Semester: 1
Type: Compulsory
ECTS Credits: 4
Structure: Lectures (10h), Practical Sessions (16h), Group tutorials (4h)
Requirements To adequately take advantage of the subject it is desirable to have knowledge of the following: Biology, cell biology, basic recombinant DNA technology, and plant physiology.
Course description and schedule: http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6426
Analysis and Identification of Chemical Contaminants (MBMAMS01-1-008)
Degree: Master’s Degree in Environmental and Health Technology
Year: 1  Semester: 2
Type: Optional
ECTS Credits: 4
Structure: Lectures (10h), Practical Sessions (16h), Group tutorials (4h)
Requirements
Course description and schedule:

Environmental Microbiology (MBMAMS01-1-009)
Degree: Master’s Degree in Environmental and Health Technology
Year: 1  Semester: 2
Type: Optional
ECTS Credits: 4
Structure: Lectures (10h), Practical Sessions (16h), Group tutorials (4h)
Requirements To properly take advantage of the subject is desirable to have knowledge of microbiology at the graduate level. It is assumed that students have taken the master course in Microbiology in the respective grades. It is also recommended that the students have taken other subjects mandatory or optional related to microbiology.
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?asignatura=6431

Special Foods and Nutraceuticals (MBMAMS01-1-010)
Degree: Master’s Degree in Environmental and Health Technology
Year: 1  Semester: 2
Type: Optional
ECTS Credits: 4
Structure: Lectures (10h), Practical Sessions (16h), Group tutorials (4h)
Requirements To properly exploit the subject is desirable to have knowledge of microbiology, biotechnology and molecular biology.
Course description and schedule:

Special Foods and Nutraceuticals (MBMAMS01-1-013)
Degree: Master’s Degree in Environmental and Health Technology
Year: 1  Semester: 2
Type: Optional
ECTS Credits: 4
Structure: Lectures (10h), Practical Sessions (16h), Group tutorials (4h)
Requirements To properly exploit the subject is desirable to have knowledge of microbiology, biotechnology and molecular biology.
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?asignatura=6436
**Toxicokinetics and Toxicodynamics** (MBMAMS01-1-016)
*Degree:* Master’s Degree in Environmental and Health Technology
*Year:* 1  *Semester:* 2  
*Type:* Optional  
*ECTS Credits:* 4  
*Structure:* Lectures (10h), Practical Sessions (16h), Group tutorials (4h)  
*Requirements*  
Course description and schedule:  
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6439

**Selection and Evaluation of Projects in Biotechnology** (MBMAMS01-2-002)
*Degree:* Master’s Degree in Environmental and Health Technology  
*Year:* 2  *Semester:* 1  
*Type:* Compulsory  
*ECTS Credits:* 4  
*Structure:* Lectures (6h), Practical Sessions (12h), Group tutorials (4h)  
*Requirements*  
Course description and schedule:  
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6442

**Novel Approaches for Drug Design, Diagnostics and Biopharmaceuticals**  
(MBMAMS01-2-005)
*Degree:* Master’s Degree in Environmental and Health Technology  
*Year:* 2  *Semester:* 1  
*Type:* Compulsory  
*ECTS Credits:* 4  
*Structure:* Lectures (10h), Practical Sessions (16h), Group tutorials (4h)  
*Requirements*  
Course description and schedule:  
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6445

**Ecological Footprint of Biotechnological Production** (MBMAMS01-2-009)
*Degree:* Master’s Degree in Environmental and Health Technology  
*Year:* 2  *Semester:* 1  
*Type:* Compulsory  
*ECTS Credits:* 4  
*Structure:* Lectures (10h), Practical Sessions (16h), Group tutorials (4h)  
*Requirements* To follow the course it is recommended to have knowledge of physics, analytical chemistry, cellular and molecular biology and biochemistry at the undergraduate level  
Course description and schedule:  
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6449
**Biosensors for Detection of Contaminants** (MBMAMS01-2-007)
*Degree:* Master’s Degree in Environmental and Health Technology  
*Year:* 2  
*Semester:* 1  
*Type:* Optional  
*ECTS Credits:* 4  
*Structure:* Lectures (10h), Practical Sessions (16h), Group tutorials (4h)  
*Requirements* To follow the course it is recommended to have knowledge of physics, analytical chemistry, cellular and molecular biology and biochemistry at the undergraduate level  
*Course description and schedule:*  

**Bioremediation** (MBMAMS01-2-011)
*Degree:* Master’s Degree in Environmental and Health Technology  
*Year:* 2  
*Semester:* 1  
*Type:* Optional  
*ECTS Credits:* 4  
*Structure:* Lectures (9h), Practical Sessions (17h), Group tutorials (4h)  
*Requirements* To follow the course it is recommended to have knowledge of physics, analytical chemistry, cellular and molecular biology and biochemistry at the undergraduate level  
*Course description and schedule:*  

**Master’s Degree in Analytical and Bioanalytical Sciences (Campus Cristo, Oviedo)**

**Mass spectrometry for elemental and molecular analysis** (MCANBI01-1-001)
*Degree:* Master’s Degree in Analytical and Bioanalytical Sciences  
*Year:* 1  
*Semester:* 1  
*Type:* Compulsory  
*ECTS Credits:* 3  
*Structure:* Lectures (17.5h), Practical Sessions (4h), Group tutorials (1h)  
*Requirements*  
*Course description and schedule:*  
Techniques for solid and surface analysis (MCANBI01-1-003)
Degree: Master’s Degree in Analytical and Bioanalytical Sciences
Year: 1  Semester: 1
Type: Compulsory
ECTS Credits: 3
Structure: Lectures (16.5h), Practical Sessions (3h), Group tutorials (3h)
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsp/ofertaFormativaServlet?&asignatura=6354

Chemometrics and advanced data analysis (MCANBI01-1-007)
Degree: Master’s Degree in Analytical and Bioanalytical Sciences
Year: 1  Semester: 1
Type: Compulsory
ECTS Credits: 3
Structure: Lectures (13.5h), Laboratory and field work (5h), Group tutorials (4h)
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsp/ofertaFormativaServlet?&asignatura=6358

Qualitative and quantitative proteomics and biomarker analysis (MCANBI01-1-009)
Degree: Master’s Degree in Analytical and Bioanalytical Sciences
Year: 1  Semester: 1
Type: Optional
ECTS Credits: 3
Structure: Lectures (14.5h), Practical sessions (4h), Laboratory and field work (3h), Group tutorials (1h)
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsp/ofertaFormativaServlet?&asignatura=6360

Environmental analysis (MCANBI01-1-011)
Degree: Master’s Degree in Analytical and Bioanalytical Sciences
Year: 1  Semester: 1
Type: Optional
ECTS Credits: 3
Structure: Lectures (16h), Laboratory and field work (4h), Group tutorials (2.5h)
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsp/ofertaFormativaServlet?&asignatura=6362
Stable Isotope-based methods of analysis (MCANBI01-1-013)
Degree: Master’s Degree in Analytical and Bioanalytical Sciences
Year: 1  Semester: 1
Type: Optional
ECTS Credits: 3
Structure: Lectures (17.5h), Practical sessions (4h), Group tutorials (1h)
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6364

Introduction to Nanomaterials and their characterisation (MCANBI01-1-014)
Degree: Master’s Degree in Analytical and Bioanalytical Sciences
Year: 1  Semester: 1
Type: Optional
ECTS Credits: 3
Structure: Lectures (15.5h), Practical sessions (2h), Laboratory and field work (3h), Group tutorials (2h)
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6365

Master’s Degree in Marine Conservation (Campus Cristo, Oviedo)

Marine Protected Areas (MCONMARI-1-005)
Degree: Master’s Degree in Marine Conservation
Year: 1  Semester: 1
Type: Optional
ECTS Credits: 3
Structure: Lectures (12.5h), Practical Sessions (7.5h), Laboratory and field work (15h)
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=2401

Genetic Biodiversity (MCONMARI-1-001)
Degree: Master’s Degree in Marine Conservation
Year: 1  Semester: 1
Type: Optional
ECTS Credits: 3
Structure: Lectures (13h), Practical Sessions (10h), Group tutorials (6h) Laboratory and field work (4h)
Requirements Introductory genetics
Course description and schedule:
Population Biology Applied to Conservation (MCONMARI-1-014)
Degree: Master’s Degree in Marine Conservation
Year: 1  Semester: 1
Type: Optional
ECTS Credits: 3
Structure: Lectures (15h), Laboratory and field work (15h)
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=2392

Global Change (MCONMARI-1-003)
Degree: Master’s Degree in Marine Conservation
Year: 1  Semester: 1
Type: Optional
ECTS Credits: 3
Structure: Lectures (16h), Practical Sessions (8h), Group tutorials (3h) Laboratory and field work (5h)
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=2396

Impact Detection and Assessment (MCONMARI-1-009)
Degree: Master’s Degree in Marine Conservation
Year: 1  Semester: 1
Type: Optional
ECTS Credits: 3
Structure: Lectures (10h), Group tutorials (10h), Laboratory and field work (10h)
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=2384

Evolution and Biogeography of Aquatic Organisms (MCONMARI-1-006)
Degree: Master’s Degree in Marine Conservation
Year: 1  Semester: 1
Type: Optional
ECTS Credits: 3
Structure: Lectures (16h), Practical Sessions (10h), Group tutorials (10h), Laboratory and field work (2h)
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=2402
**Biological Invasion** (MCONMARI-1-004)
*Degree:* Master’s Degree in Marine Conservation  
*Year:* 1  
*Semester:* 1  
*Type:* Optional  
*ECTS Credits:* 3  
*Structure:* Lectures (10h), Practical Sessions (6h), Laboratory and field work (5h)  
*Requirements* Biology and Ecology at Grade level  
*Course description and schedule:*  

**Ecological Modelling** (MCONMARI-1-012)
*Degree:* Master’s Degree in Marine Conservation  
*Year:* 1  
*Semester:* 1  
*Type:* Optional  
*ECTS Credits:* 3  
*Structure:* Lectures (10h), Practical Sessions (25h), Group tutorials (2.5h)  
*Requirements*  
*Course description and schedule:*  
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?asignatura=2389

**Molecular Techniques and their Applications** (MCONMARI-1-008)
*Degree:* Master’s Degree in Marine Conservation  
*Year:* 1  
*Semester:* 1  
*Type:* Optional  
*ECTS Credits:* 3  
*Structure:* Lectures (5h), Practical Sessions (5h), Group tutorials (2.5h), Laboratory and field work (25h)  
*Requirements*  
*Course description and schedule:*  

**Aquaculture** (MCONMARI-1-007)
*Degree:* Master’s Degree in Marine Conservation  
*Year:* 1  
*Semester:* 1  
*Type:* Optional  
*ECTS Credits:* 3  
*Structure:* Lectures (13h), Practical Sessions (6h), Group tutorials (4h), Laboratory and field work (12h)  
*Requirements*  
*Course description and schedule:*  
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?asignatura=2398
Legal and Economic Aspects of Marine Resources (MCONMARI-1-013)
Degree: Master’s Degree in Marine Conservation
Year: 1  Semester: 1
Type: Optional
ECTS Credits: 3
Structure: Lectures (27h), Practical Sessions (10h)
Requirements
Course description and schedule:

Integrated Coastal Zone Management (MCONMARI-1-010)
Degree: Master’s Degree in Marine Conservation
Year: 1  Semester: 1
Type: Optional
ECTS Credits: 3
Structure: Lectures (10h), Group tutorials (10h), Laboratory and field group (15h)
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod/jsf/ofertaFormativaServlet?asignatura=2380

Geographic Information Systems and Remote-Sensing (MCONMARI-1-011)
Degree: Master’s Degree in Marine Conservation
Year: 1  Semester: 1
Type: Optional
ECTS Credits: 3
Structure: Lectures (12.5h), Practical Sessions (25h)
Requirements
Course description and schedule:

Internship (MCONMARI-1-016)
Degree: Master’s Degree in Marine Conservation
Year: 1  Semester: 1
Type: Optional
ECTS Credits: 3
Structure: Non-presencial (20h)
Requirements
Course description and schedule:
Master Thesis (MCONMARI-1-015)
Degree: Master’s Degree in Marine Conservation
Year: 1  Semester: 2
Type: Degree Final Project
ECTS Credits: 30
Structure:
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=2399
Social Sciences

Master’s Degree in Integrated Teaching of the English Language and Contents: Infant and Primary Education (Campus Cristo, Oviedo)

Communicative Skills I (MELING01-1-001)
Degree: Master’s Degree in Integrated Teaching of the English Language and Contents
Year: 1 Semester: 1
Type: Compulsory
ECTS Credits: 10
Structure: Lectures (5h), Laboratory and field work (56.5h), Group tutorials (1h)
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6867

Communicative Skills II (MELING01-1-002)
Degree: Master’s Degree in Integrated Teaching of the English Language and Contents
Year: 1 Semester: 2
Type: Compulsory
ECTS Credits: 10
Structure: Lectures (5h), Laboratory and field work (56.5h), Group tutorials (1h)
Requirements Communicative Skills I
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6868

Methodology I (MELING01-1-003)
Degree: Master’s Degree in Integrated Teaching of the English Language and Contents
Year: 1 Semester: 1
Type: Compulsory
ECTS Credits: 5
Structure: Lectures (2h), Practical sessions (9.5h), Laboratory and field work (25h), Group tutorials (2h)
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6869
**Methodology II (MELING01-1-003)**
Degree: Master’s Degree in Integrated Teaching of the English Language and Contents  
Year: 1  Semester: 2  
Type: Compulsory  
ECTS Credits: 5  
Structure: Lectures (2h), Laboratory and field work (27h), Group tutorials (1h)  
Requirements Methodology I  
Course description and schedule:  

**Science in Bilingual Education (MELING01-1-004)**
Degree: Master’s Degree in Integrated Teaching of the English Language and Contents  
Year: 1  Semester: 1  
Type: Compulsory  
ECTS Credits: 5  
Structure: Lectures (5h), Practical sessions (6.5h), Laboratory and field work (25h), Group tutorials (2h)  
Requirements  
Course description and schedule:  

**Social and Culture Sciences in Bilingual Education (MELING01-1-005)**
Degree: Master’s Degree in Integrated Teaching of the English Language and Contents  
Year: 1  Semester: 2  
Type: Compulsory  
ECTS Credits: 5  
Structure: Lectures (3h), Practical sessions (4.5h), Laboratory and field work (29h), Group tutorials (1h)  
Requirements  
Course description and schedule:  

**Physical Education in Bilingual Education (MELING01-1-007)**
Degree: Master’s Degree in Integrated Teaching of the English Language and Contents  
Year: 1  Semester: 2  
Type: Compulsory  
ECTS Credits: 5  
Structure: Lectures (3h), Practical sessions (4.5h), Laboratory and field work (29h), Group tutorials (1h)  
Requirements  
Course description and schedule:  
**Maths in Bilingual Education** (MELING01-1-012)

Degree: Master’s Degree in Integrated Teaching of the English Language and Contents  
Year: 1  
Semester: 2  
Type: Compulsory  
ECTS Credits: 5  
Structure: Lectures (5h), Laboratory and field work (31.5h), Group tutorials (1h)  
Requirements  
Course description and schedule:  
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6884

**Research Methods in Education** (MELING01-1-008)

Degree: Master’s Degree in Integrated Teaching of the English Language and Contents  
Year: 1  
Semester: 2  
Type: Optional  
ECTS Credits: 3  
Structure: Lectures (4h), Practical sessions (2.5h) Laboratory and field work (15h), Group tutorials (1h)  
Requirements  
Course description and schedule:  
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6876

**Audiovisual Resources in Bilingual Education** (MELING01-1-010)

Degree: Master’s Degree in Integrated Teaching of the English Language and Contents  
Year: 1  
Semester: 2  
Type: Optional  
ECTS Credits: 3  
Structure: Lectures (4h), Practical sessions (2.5h) Laboratory and field work (15h), Group tutorials (1h)  
Requirements  
Course description and schedule:  
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6882

**Internship** (MELING01-2-002)

Degree: Master’s Degree in Integrated Teaching of the English Language and Contents  
Year: 2  
Semester: 1  
Type: Internship  
ECTS Credits: 12  
Structure:  
Requirements  
Course description and schedule:  
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6885
Master’s Thesis (MELING01-2-001)
Degree: Master’s Degree in Integrated Teaching of the English Language and Contents
Year: 2   Semester: 1
Type: Degree final project
ECTS Credits: 18
Structure:
Requirements
Course description and schedule:
Engineering

Master’s Degree in Electrical Energy Conversion and Power Systems (Campus Gijón)

Introduction to Renewable Energy Power System, Electrical Traction and Energy Efficiency (MCEESP01-1-001)
Degree: Master’s Degree in Electrical Energy Conversion and Power Systems
Year: 1  Semester: 1
Type: Complementary Training Courses
ECTS Credits: 3
Structure:
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jst/ofertaFormativaServlet?&asignatura=6516

Electric Machines for Generation and Traction (MCEESP01-1-002)
Degree: Master’s Degree in Electrical Energy Conversion and Power Systems
Year: 1  Semester: 1
Type: Complementary Training Courses
ECTS Credits: 3
Structure:
Requirements The students must certify that they have passed basic skills and competences in power electronics, power plants, electric machines and control systems and automation. This can be either accomplished at his/her incoming student profile and CV.
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jst/ofertaFormativaServlet?&asignatura=6517

Dynamic Analysis and Modelling of Electric Machines (MCEESP01-1-003)
Degree: Master’s Degree in Electrical Energy Conversion and Power Systems
Year: 1  Semester: 1
Type: Complementary Training Courses
ECTS Credits: 3
Structure:
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jst/ofertaFormativaServlet?&asignatura=6518
Electrical Utilities and Facilities (MCEESP01-1-004)
Degree: Master’s Degree in Electrical Energy Conversion and Power Systems
Year: 1  Semester: 1
Type: Complementary Training Courses
ECTS Credits: 3
Structure:
Requirements The students must certify that they have passed basic skills and competences in power electronics, power plants, electric machines and control systems and automation. This can be either accomplished at his/her incoming student profile and CV.
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6519

Power Plants (MCEESP01-1-005)
Degree: Master’s Degree in Electrical Energy Conversion and Power Systems
Year: 1  Semester: 1
Type: Complementary Training Courses
ECTS Credits: 6
Structure:
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6520

Electric Transmission Networks (MCEESP01-1-007)
Degree: Master’s Degree in Electrical Energy Conversion and Power Systems
Year: 1  Semester: 1
Type: Complementary Training Courses
ECTS Credits: 4.5
Structure:
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6522

Microcontrollers (MCEESP01-1-008)
Degree: Master’s Degree in Electrical Energy Conversion and Power Systems
Year: 1  Semester: 1
Type: Complementary Training Courses
ECTS Credits: 3
Structure:
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6523
Hybrid Control System (MCEESP01-1-009)
Degree: Master's Degree in Electrical Energy Conversion and Power Systems
Year: 1  Semester: 1
Type: Complementary Training Courses
ECTS Credits: 3
Structure:
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6524

Control of Electromechanical Systems (MCEESP01-1-010)
Degree: Master’s Degree in Electrical Energy Conversion and Power Systems
Year: 1  Semester: 1
Type: Complementary Training Courses
ECTS Credits: 3
Structure:
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6525

Dynamic Control of AC Machines (MCEESP01-1-011)
Degree: Master’s Degree in Electrical Energy Conversion and Power Systems
Year: 1  Semester: 1
Type: Complementary Training Courses
ECTS Credits: 3
Structure:
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6526

Power Electronic Devices (MCEESP01-1-012)
Degree: Master’s Degree in Electrical Energy Conversion and Power Systems
Year: 1  Semester: 1
Type: Complementary Training Courses
ECTS Credits: 3
Structure:
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6527
Power Electronic Circuits (MCEESP01-1-013)
Degree: Master’s Degree in Electrical Energy Conversion and Power Systems
Year: 1  Semester: 1
Type: Complementary Training Courses
ECTS Credits: 3
Structure:
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6528

Digital Signal Processing and Communication (MCEESP01-1-019)
Degree: Master’s Degree in Electrical Energy Conversion and Power Systems
Year: 1  Semester: 1
Type: Complementary Training Courses
ECTS Credits: 3
Structure:
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6545

Electronic CAD (MCEESP01-1-020)
Degree: Master’s Degree in Electrical Energy Conversion and Power Systems
Year: 1  Semester: 1
Type: Complementary Training Courses
ECTS Credits: 3
Structure:
Requirements Knowledge of electronic components (resistors, capacitors, integrated circuits, …) is important in order to understand some of the features of the software tools presented in this subject. Having these basic notions will allow students to develop correct schematics that will eventually give rise to good simulation results and properly-designed printed circuit boards.
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6546

Industrial Electronics in Renewable Energy Generation Systems (MCEESP01-1-014)
Degree: Master’s Degree in Electrical Energy Conversion and Power Systems
Year: 1  Semester: 2
Type: Compulsory
ECTS Credits: 6
Structure:
Requirements The students must certify that they have passed basic skills and competences in power electronics, power plants, electric machines and control systems and automation. This can be either accomplished at his/her incoming student profile and CV or, if not covered there, by passing the related subjects of the first semester.
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6529
Control and Monitoring in Renewable Energy Generation Systems (MCEESP01-1-015)
Degree: Master’s Degree in Electrical Energy Conversion and Power Systems
Year: 1  Semester: 2
Type: Compulsory
ECTS Credits: 6
Structure:
Requirements The students must certify that they have passed basic skills and competences in power electronics, power plants, electric machines and control systems and automation. This can be either accomplished at his/her incoming student profile and CV or, if not covered there, by passing the related subjects of the first semester.
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6530

Distributed Generation System and Power Quality (MCEESP01-1-016)
Degree: Master’s Degree in Electrical Energy Conversion and Power Systems
Year: 1  Semester: 2
Type: Compulsory
ECTS Credits: 6
Structure:
Requirements The students must certify that they have passed basic skills and competences in power electronics, power plants, electric machines and control systems and automation. This can be either accomplished at his/her incoming student profile and CV or, if not covered there, by passing the related subjects of the first semester.
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6531

Analysis, Modelling and Simulation of Electric Power Systems (MCEESP01-1-017)
Degree: Master’s Degree in Electrical Energy Conversion and Power Systems
Year: 1  Semester: 2
Type: Compulsory
ECTS Credits: 6
Structure:
Requirements The students must certify that they have passed basic skills and competences in power electronics, power plants, electric machines and control systems and automation. This can be either accomplished at his/her incoming student profile and CV or, if not covered there, by passing the related subjects of the first semester.
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6532
Laboratory (MCEESP01-1-018)
Degree: Master’s Degree in Electrical Energy Conversion and Power Systems
Year: 1   Semester: 2
Type: Compulsory
ECTS Credits: 6
Structure:
Requirements The students must certify that they have passed basic skills and competences in power electronics, power plants, electric machines and control systems and automation. This can be either accomplished at his/her incoming student profile and CV or, if not covered there, by passing the related subjects of the first semester.
Course description and schedule:

Applied Simulation to Power Systems (MCEESP01-2-012)
Degree: Master’s Degree in Electrical Energy Conversion and Power Systems
Year: 2   Semester: 1
Type: Compulsory
ECTS Credits: 3
Structure:
Requirements The students must certify that they have passed basic skills and competences in power generation, transmission and distribution systems. This can be either accomplished at his/her incoming student profile and CV or, if not covered there, by passing the related subjects of the first and second semesters.
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?asignatura=6547

Energy Strategies and Policies (MCEESP01-2-001)
Degree: Master’s Degree in Electrical Energy Conversion and Power Systems
Year: 2   Semester: 1
Type: Optional
ECTS Credits: 3
Structure:
Requirements The students should handle concepts of Power plants, Electrical energy transport, Power systems operation and Distributed generation systems and power quality
Course description and schedule:

Regulation and Directives (MCEESP01-2-002)
Degree: Master’s Degree in Electrical Energy Conversion and Power Systems
Year: 2   Semester: 1
Type: Optional
ECTS Credits: 3
Structure:
Requirements The students should handle concepts of Power plants, Electrical energy transport, Power systems operation and Distributed generation systems and power quality
Course description and schedule:
Economical and financial analysis (MCEESP01-2-003)
Degree: Master’s Degree in Electrical Energy Conversion and Power Systems
Year: 2  Semester: 1
Type: Optional
ECTS Credits: 6
Structure:
Requirements The students should handle concepts of Power plants, Electrical energy transport, Power systems operation and Distributed generation systems and power quality
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6536

Electrical Energy Project Management (MCEESP01-2-004)
Degree: Master’s Degree in Electrical Energy Conversion and Power Systems
Year: 2  Semester: 1
Type: Optional
ECTS Credits: 6
Structure:
Requirements The students should handle concepts of Power plants, Electrical energy transport, Power systems operation and Distributed generation systems and power quality
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6537

Electrical Markets (MCEESP01-2-005)
Degree: Master’s Degree in Electrical Energy Conversion and Power Systems
Year: 2  Semester: 1
Type: Optional
ECTS Credits: 6
Structure:
Requirements The students should handle concepts of Power plants, Electrical energy transport, Power systems operation and Distributed generation systems and power quality
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6538

Internships (MCEESP01-2-006)
Degree: Master’s Degree in Electrical Energy Conversion and Power Systems
Year: 2  Semester: 1
Type: Optional
ECTS Credits: 3
Structure:
Requirements
Course description and schedule:
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6539
**FACTS and HVDC (MCEESP01-2-007)**

**Degree:** Master's Degree in Electrical Energy Conversion and Power Systems  
**Year:** 2  
**Semester:** 1  
**Type:** Optional  
**ECTS Credits:** 6  
**Structure:**  
**Requirements** The students should handle concepts of the common stage of the program (year 1 semester 2)  
**Course description and schedule:**  
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?asignatura=6540

**Hibrid and Electric Vehicles (MCEESP01-2-013)**

**Degree:** Master’s Degree in Electrical Energy Conversion and Power Systems  
**Year:** 2  
**Semester:** 1  
**Type:** Optional  
**ECTS Credits:** 6  
**Structure:**  
**Requirements**  
**Course description and schedule:**  

**Energy Storing and Recovery in Power Systems and Hybrid/Electric Vehicles (MCEESP01-2-014)**

**Degree:** Master’s Degree in Electrical Energy Conversion and Power Systems  
**Year:** 2  
**Semester:** 1  
**Type:** Optional  
**ECTS Credits:** 6  
**Structure:**  
**Requirements** It is desirable knowledge about power topologies, simulation, digital control devices, such as DSC, DSPs, Microcontrollers, and soon. Also, power electronics basis and electricity bases are required  
**Course description and schedule:**  
http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?asignatura=6549

**Microgrids and Smartgrids (MCEESP01-2-015)**

**Degree:** Master’s Degree in Electrical Energy Conversion and Power Systems  
**Year:** 2  
**Semester:** 1  
**Type:** Optional  
**ECTS Credits:** 6  
**Structure:**  
**Requirements** The students must certify that they have passed basic skills and competences in power generation, transmission and distribution systems, by passing the related subjects of the first and second semesters. Due to the fact that it is a subject of the specialization stage, the student should handle the concepts expressed in the common stage of the program (semester 2).  
**Course description and schedule:**  
Applied simulation to Hybrid and Electric Vehicles (MCEESP01-2-016)
Degree: Master's Degree in Electrical Energy Conversion and Power Systems
Year: 2  Semester: 1
Type: Optional
ECTS Credits: 3
Structure:
Requirements The student must have passed completely the 60 ECTS corresponding to the first year of the master. It is also recommended to be simultaneously coursing the subjects corresponding to the scientific-technical research track.
Course description and schedule: http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6551

Challenges and Tendencies in Future Power Systems (MCEESP01-2-009)
Degree: Master's Degree in Electrical Energy Conversion and Power Systems
Year: 2  Semester: 2
Type: Compulsory
ECTS Credits: 4.5
Structure:
Requirements
Course description and schedule: http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6542

Energy Efficiency (MCEESP01-2-010)
Degree: Master’s Degree in Electrical Energy Conversion and Power Systems
Year: 2  Semester: 2
Type: Compulsory
ECTS Credits: 4.5
Structure:
Requirements
Course description and schedule: http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6543

Generic and Specific Topics on Scientific Research (MCEESP01-2-008)
Degree: Master’s Degree in Electrical Energy Conversion and Power Systems
Year: 2  Semester: 2
Type: Compulsory
ECTS Credits: 3
Structure:
Requirements
Course description and schedule: http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6541
Master’s Thesis (MCEESP01-2-011)
Degree: Master’s Degree in Electrical Energy Conversion and Power Systems
Year: 2 Semester: 2
Type: Compulsory
ECTS Credits: 18
Structure:
Requirements
Course description and schedule:
Annex

Campus in Asturias

Campus in Oviedo
Faculty of Biology

http://biologia.uniovi.es/
decanato.f.biologia@uniovi.es
C/ Catedrático Valentín Andrés Álvarez s/n. 33006 – Oviedo
https://goo.gl/maps/ef9tabKR7MF2

Faculty of Sciences

http://ciencias.uniovi.es/
decanato.ciencias@uniovi.es
C/ Calvo Sotelo s/n. 33007 – Oviedo
https://goo.gl/maps/89B1hDQDWSA2

Faculty of Commerce, Tourism and Social Sciences

http://jovellanos.uniovi.es/
fac.jovellanos@uniovi.es
C/ Luis Moya Blanco 261. 33203 – Gijón
https://goo.gl/maps/k2XwwXJk6zN2

Faculty of Law

http://derecho.uniovi.es/
fac.derecho@uniovi.es
C/ Valentín Andrés Álvarez s/n. 33006 – Oviedo
https://goo.gl/maps/XTQcnBMT8JG2

Faculty of Economics and Business

http://econo.uniovi.es/
fac.econo@uniovi.es
Avda. del Cristo s/n. 33006 – Oviedo
https://goo.gl/maps/jJuWqPUddfS2
Faculty of Philosophy and Letters

http://fyl.uniovi.es/
facultadfyl@uniovi.es
C/ Teniente Alfonso Martínez s/n. 33011 – Oviedo
https://goo.gl/maps/1Cjqff28Trx

Faculty of Teaching Training and Education

http://www.uniovi.es/centros/facultades/fyl
C/. Aniceto Sela, s/n. 33005 – Oviedo
https://goo.gl/maps/JyFh2zSqqbZ

Faculty of Geology

http://geologia.uniovi.es/
geofac@uniovi.es
C/ Aniceto Sala s/n. 33005 – Oviedo
https://goo.gl/maps/o6RtymHbaVR2

Faculty of Medicine and Health Sciences

http://medicinaysalud.uniovi.es/
fac.medicina@uniovi.es / euenferfisio@uniovi.es (nurse and physiotherapy)
Campus El Cristo s/n. 33006 – Oviedo
https://goo.gl/maps/kikjYSpbB342

Faculty of Psychology

http://psicologia.uniovi.es/
admpsico@correo.uniovi.es
Plaza Feijoó s/n. 33003 – Oviedo
https://goo.gl/maps/kYZDNWJjGcD2
Faculty of Chemistry

http://quimica.uniovi.es/
facquimica@correo.uniovi.es
Avda. Julián Clavería 8 33006 – Oviedo
https://goo.gl/maps/T4sepTVB3f52

School of Computer Science Engineering

http://ingenieriainformatica.uniovi.es/
eii@correo.uniovi.es
Valdés Salas s/n 33007 – Oviedo
https://goo.gl/maps/GLxz6RHiPcx

Polytechnic School of Engineering of Gijón

http://epigijon.uniovi.es/
epi@correo.uniovi.es
Edificio Polivalente, Módulo 1 - Planta Baja s/n 33203- Gijón
https://goo.gl/maps/VNWyaA5yaRG2

Polytechnic School of Mieres

http://epm.uniovi.es/
direpm@correo.uniovi.es
C/ Gonzalo Gutiérrez Quirós s/n. 33600 – Mieres
https://goo.gl/maps/VggamaUyvKq

Professional School of Physical Education and Sports Medicine

http://medepor.uniovi.es/
epmedicinadeldeport@correo.uniovi.es
C/ Catedrático Gimeno, 7 33007- Oviedo
https://goo.gl/maps/NbGnaJjwvkJ2
Higher School of Civil Navy

http://marina.uniovi.es/
mjose@correo.uniovi.es
Campus de Gijón 33203- Gijón
https://goo.gl/maps/EZMBA7X4WQm

School of Mining, Energy and Materials Engineering of Oviedo

http://eimem.uniovi.es/
eimem@correo.uniovi.es
C/ Independencia nº 13. 33004 – Oviedo
https://goo.gl/maps/6LQEj2qVgGm

School of Mining, Energy and Materials Engineering of Oviedo

http://eimem.uniovi.es/
eimem@correo.uniovi.es
C/ Independencia nº 13. 33004 – Oviedo
https://goo.gl/maps/6LQEj2qVgGm