

List of Subjects in English at the University of Oviedo

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Vicerrectorado de Internacionalización
y Postgrado
Universidad de Oviedo


ASTURIAS
CAMPUS DE EXCELENCIA
INTERNACIONAL
AD FUTURUM

Contents

Erasmus Mundus	3
Erasmus Mundus Degree in Emergency and Critical Care Nursing	3
Erasmus Mundus Degree in Women and Gender Studies	5
Erasmus Mundus Degree in Public Health in Disasters	6
Erasmus Mundus Degree in Sustainable	8
Sciences	14
Degree in Marine Biodiversity and Conservation (EMBC+)	14
Degree in Environmental and Health Technology	18
Degree in Analytical and Bioanalytical Sciences	22
Degree in Environmental and Marine Conservation	24
Social Sciences	29
Degree in Integrated Teaching of the English Language and Contents	29
Engineering and Architecture	33
Degree in Electrical Energy Conversion and Power Systems	33
Annex (Campus maps and faculties)	43

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:

<http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=8014>

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:

<http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=8018>

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:

<http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=8019>

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

Course description and schedule:

<http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&signatura=2435>

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?&signatura=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?&signatura=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.

<http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&signatura=3990>

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>

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>

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-jsf/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-jsf/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-jsf/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:

<http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=18578>

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:

<http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=18649>

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?&signatura=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?&signatura=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?&signatura=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:

<http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6430>

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:

<http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6432>

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:

<http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6447>

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:

<http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6451>

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:

<http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6352>

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-jsf/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-jsf/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-jsf/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-jsf/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:

<http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=2392>

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=2383>

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:

<http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=2393>

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:

<http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=2381>

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:

<http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=2387>

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:

<http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=2397>

Internship (MCONMARI-1-016)

Degree: Master's Degree in Marine Conservation

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>

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:

<http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6883>

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:

<http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6870>

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:

<http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6871>

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:

<http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6874>

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:

<http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&signatura=6886>

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-jsf/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-jsf/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-jsf/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:

<http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6533>

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:

<http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6534>

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:

<http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6535>

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:

<http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6548>

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, Microcontrolers, 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:

<http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6550>

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:

<http://sies.uniovi.es/ofe-pod-jsf/ofertaFormativaServlet?&asignatura=6544>

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/JyFh2zSqgbz>

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 Feijóo 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>