English version at the end of this document

Ano Letivo	2023-24
Unidade Curricular	MAEH WEBINAR IN ECOHYDROLOGY
Cursos	ECOHIDROLOGIA APLICADA - Erasmus Mundus (2.º Ciclo)
Unidade Orgânica	Faculdade de Ciências e Tecnologia
Código da Unidade Curricular	19311004
Área Científica	CIÊNCIAS DO AMBIENTE
Sigla	
Código CNAEF (3 dígitos)	420
Contributo para os Objetivos de Desenvolvimento Sustentável - ODS (Indicar até 3 objetivos)	6,13,14
Línguas de Aprendizagem	inglês

Modalidade de ensino

presencial/remoto

Docente Responsável Dina Cristina Fernandes Rodrigues da Costa Simes

DOCENTE	TIPO DE AULA	TURMAS	TOTAL HORAS DE CONTACTO (*)
Dina Cristina Fernandes Rodrigues da Costa Simes	S; T	T1; S1	3T; 12S
Luís Manuel Zambujal Chícharo	OT	OT1	7OT
Maria Margarida da Cruz Godinho Ribau Teixeira	S	;S1	2S

* Para turmas lecionadas conjuntamente, apenas é contabilizada a carga horária de uma delas.

ANO	PERÍODO DE FUNCIONAMENTO*	HORAS DE CONTACTO	HORAS TOTAIS DE TRABALHO	ECTS
1º	S1	3T; 14S; 7OT	78	3

* A-Anual;S-Semestral;Q-Quadrimestral;T-Trimestral

Precedências

Sem precedências

Conhecimentos Prévios recomendados

biology ecology

Objetivos de aprendizagem (conhecimentos, aptidões e competências)

Ecohydrology webinars aimed to increase the general knowledge of the students about global water realities and issues. The course will consist in a set of seminars, presential or at distance using web online tools. Seminars will be delivered by partners HEIs, but mainly by associated partners, as UNESCO Chairs.

Conteúdos programáticos

General topics on ecohydrology and related themes (biodiversity, management, economics, water diplomacy water and gender, etc)

Metodologias de ensino (avaliação incluída)

The course will be based on Seminars and tutorial classes.

Students will be asked to develop a project on one of the topics presented at the seminars, and the tutorial classes will be used to support the development of the project they will present and will serve for evaluation of the course.

Evaluation:

1. A group work written with individual presentation on practical project

2. A final written exam if group work evaluation is below 10/20 points

Bibliografia principal

Chicharo, L. Wagner, I., Chicharo, M. A Lapsinka, M. Zalewski, M. (2009) Practical experiments guide for Ecohydrology (Eds.Chicharo et al.). UNESCO Manual ISBN: 978-989-20-1702-0. Faro, 121 pp

Zalewski M, Wagner-Lotkowska I. & Robarts D. R. (eds). 2004. Integrated Watershed Management ¿ Ecohydrology and Phytotechnology-Manual. UNESCO IHP, UNEP
IETC.246pp.;http://www.unep.or.jp/Ietc/Publications/Water_Sanitation/integrated_watershed_mgmt_manual

Wolanski, E., L. Chicharo, M.A. Chicharo (2008) Estuarine Ecohydrology. In Sven Erik Jørgensen and Brian D. Fath (Editor-in-Chief), Ecological Engineering. Vol. [2] of Encyclopedia of Ecology, 5 vols. pp. [1413-1422] Oxford: Elseier.

Academic Year	2023-24
Course unit	
Courses	Applied Ecohydrology - Erasmus Mundus (2.º Cycle)
Faculty / School	FACULTY OF SCIENCES AND TECHNOLOGY
Main Scientific Area	
Acronym	
CNAEF code (3 digits)	420
Contribution to Sustainable Development Goals - SGD (Designate up to 3 objectives)	6,13,14
Language of instruction	english
Teaching/Learning modality	presencial/ remoto

Coordinating teacher Dina Cristina Fernandes Rodrigues da Costa Simes

Teaching staff	Type	Classes	Hours (*)
Dina Cristina Fernandes Rodrigues da Costa Simes	S; T	T1; S1	3T; 12S
Luís Manuel Zambujal Chícharo	OT	OT1	7OT
Maria Margarida da Cruz Godinho Ribau Teixeira	S	;S1	2S

* For classes taught jointly, it is only accounted the workload of one.

Contact hours

T	TP	PL	TC	S	E	OT	O	Total
3	0	0	0	14	0	7	0	78

T - Theoretical; TP - Theoretical and practical ; PL - Practical and laboratorial; TC - Field Work; S - Seminar; E - Training; OT - Tutorial; O - Other

Pre-requisites

no pre-requisites

Prior knowledge and skills

biology, ecology

The students intended learning outcomes (knowledge, skills and competences)

Ecohydrology webinars aimed to increase the general knowledge of the students about global water realities and issues. The course will consist in a set of seminars, presential or at distance using web online tools. Seminars will be delivered by partners HEIs, but mainly by associated partners, as UNESCO Chairs.

Syllabus

General topics on ecohydrology and related themes (biodiversity, management, economics, water diplomacy water and gender, etc)

Teaching methodologies (including evaluation)

The course will be based on Seminars and tutorial classes.

Students will be asked to develop a project on one of the topics presented at the seminars, and the tutorial classes will be used to support the development of the project they will present and will serve for evaluation of the course.

Evaluation:

1. A group work written with individual presentation on practical project

2. A final written exam if group work evaluation is below 10/20 points

Main Bibliography

Chicharo, L. Wagner, I., Chicharo, M. A Lapsinka, M. Zalewski, M. (2009) Practical experiments guide for Ecohydrology (Eds.Chicharo et al.). UNESCO Manual ISBN: 978-989-20-1702-0. Faro, 121 pp

Zalewski M, Wagner-Lotkowska I. & Robarts D. R. (eds). 2004. Integrated Watershed Management ¿ Ecohydrology and Phytotechnology-Manual. UNESCO IHP, UNEP
IETC.246pp.;http://www.unep.or.jp/Ietc/Publications/Water_Sanitation/integrated_watershed_mgmt_manual

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