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**Ano Letivo** 2021-22

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**Unidade Curricular** MAEH WEBINAR IN ECOHYDROLOGY

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**Cursos** ECOHIDROLOGIA APLICADA - Erasmus Mundus (2.º Ciclo)

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**Unidade Orgânica** Faculdade de Ciências e Tecnologia

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**Código da Unidade Curricular** 19311004

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**Área Científica** CIÊNCIAS DO AMBIENTE

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**Sigla**

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**Código CNAEF (3 dígitos)** 420

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**Contributo para os Objetivos de Desenvolvimento Sustentável - ODS (Indicar até 3 objetivos)** 6,13,14

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**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	OT; S; T	T1; S1; OT1	2T; 6S; 2OT
Luís Manuel Zambujal Chícharo	OT; S; T	T1; ;S1; OT1	1T; 4S; 3OT
Maria Margarida da Cruz Godinho Ribau Teixeira	OT; S	;S1; OT1	4S; 2OT

\* 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
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### **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](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.

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**Academic Year** 2021-22

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**Course unit**

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**Courses** Applied Ecohydrology - Erasmus Mundus (2.º Cycle)

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**Faculty / School** FACULTY OF SCIENCES AND TECHNOLOGY

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**Main Scientific Area**

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**Acronym**

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**CNAEF code (3 digits)** 420

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**Contribution to Sustainable Development Goals - SGD (Designate up to 3 objectives)** 6,13,14

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**Language of instruction** english

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**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	OT; S; T	T1; S1; OT1	2T; 6S; 2OT
Luís Manuel Zambujal Chicharo	OT; S; T	T1; ;S1; OT1	1T; 4S; 3OT
Maria Margarida da Cruz Godinho Ribau Teixeira	OT; S	;S1; OT1	4S; 2OT

\* 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
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### 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

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