

SYLLABUS

1. COURSE DESCRIPTION

Degree:	Environmental Sciences
Course:	Applied Limnology
Module:	Complementary Training (Optional)
Department:	Physical, Chemical and Natural Systems
Academic Year:	2017-2018
Term:	First
ECTS credits:	6
Year:	4th year
Type:	Optional
Language:	Spanish

Course Model:	C1	
a. Basic learning (EB):		50%
b. Practical learning (EPD):		50%



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2. LECTURER

Coordinator	
Name:	Antonia Jiménez Rodríguez
School:	Experimental Sciences
Department:	Physical, Chemical and Natural Systems
Area:	Ecology
Office Hours:	Tuesdays, Wednesdays and Thursdays: 11.00-12.00 and 16.00-17.00
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3. TOPICS

1. **Optical and thermal properties of water. Chemical composition (salts, gases and nutrients).**
2. **The organisms: diversity, adaptations and distribution. The primary producers. Main groups: Bacteria, algae and macrophytes.**
3. **Secondary producers. Zooplankton and zoobenthos.**
4. **Limnological management of inland waters used as a resource. The reservoirs: hybrid behavior river-lake. Typification of the Spanish reservoirs.**
5. **Performances of man in inland waters. Rivers: short, prey, dredged. Biological purification of wastewater.**
6. **Biological elimination of organic matter and nutrients through advanced biological treatments. Use of anaerobic microorganisms. Factors that affect the treatment. Eutrophication of sensitive ecosystems.**