

SYLLABUS

1. COURSE DESCRIPTION

Degree:	Environmental Sciences
Course:	Microbiology
Department:	Basic Training
Department:	Molecular Biology and Biochemical Engineering
Academic Year:	2017-2018
Term:	First
ECTS credits:	6
Year:	2 nd year
Туре:	Basic
Language:	Spanish

Course Model:	B2		
a. Basic learning (EB):		60%	
b. Practical learning (EPD):		25%	
c. Organised activities:		15%	



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2. LECTURERS

Coordinator	
Name:	Eva Mª Camacho Fernández
School:	School of Experimental Sciences
Department:	Molecular Biology and Biochemical Engineering
Area:	Microbiology
Office Hours:	MORNING: Wednesdays 10.30-12.00 and Thursdays
	12.30-14.00
	AFTERNOON: Wednesdays 16.00-17.30 and Thursdays:
	16.00-17.30
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3. TOPICS

TOPIC I: FUNDAMENTALS OF MICROBIOLOGY

UNIT 1. Microbial diversity

UNIT 2. Microbiological techniques

UNIT 3. Prokaryotic cell: structure and function

UNIT 4. Bacterial genetics

UNIT 5. Microbial metabolism

TOPIC II: MICROORGANISMS AND THE ENVIRONMENT

UNIT 6. Biogeochemical cycles of the elements and microbial activity

UNIT 7. Microbial communities and their interactions

UNIT 8. Microorganisms in terrestrial, water, extreme and animal environments

TOPIC III: MICROBIAL BIOTECNOLOGY

UNIT 9. Microbiological control of plagues and illnesses

UNIT 10. Microbiological transformation of pollutant agents and bioremediation