

SYLLABUS

1. COURSE DESCRIPTION

Degree:	Nutrition and Dietetics
Course:	Research Methods and Techniques in Nutrition
Module:	Health Sciences
Department:	Molecular Biology and Biochemical Engineering
Academic Year:	2017-18
Term:	Second
ECTS credits:	6
Year:	3rd year
Type:	Compulsory
Language:	Spanish

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

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2. LECTURERS

Coordinator	
Name:	Genoveva Berná Amorós
School:	School of Experimental Sciences
Department:	Molecular Biology and Biochemical Engineering
Area:	Nutrition and Bromatology
Office Hours:	Tuesdays, Thursdays and Fridays: 09.30-11.30 (please, make a previous appointment through e-mail)
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3. TOPICS

1. RESEARCH METHODS IN HUMAN NUTRITION

Unit 1. Introduction to the basic research techniques in nutrition. The scientific method in nutrition.

Unit 2. Design of research projects. Exposure of scientific results: science journals.

Unit 3. Experimental models in nutrition.

3.1. Cell cultivation.

3.2. Animal models.

Unit 4. Types of research studies in human nutrition.

4.1. Observational studies and experimental studies.

4.2. Design of nutritional studies.

2. RESEARCH TECHNIQUES IN HUMAN NUTRITION

Unit 5. Research techniques in nutrition related to the determination of oxidative stress.

Unit 6. Techniques for the separation and identification of compounds.

Unit 7. Techniques for the determination of proteins and protein metabolism.

Unit 8. Techniques for the DNA study: nutrigenetics and nutrigenomics.