

SYLLABUS

1. COURSE DESCRIPTION

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| Degree: | Biotechnology |
| Course: | Project Organization and Management |
| Module: | Social and Economic Aspects of Biotechnology |
| Department: | Molecular Biology and Biochemical Engineering |
| Academic Year: | 2017-2018 |
| Term: | First |
| ECTS credits: | 4.5 ECTS |
| Year: | 4th year |
| Type: | Compulsory |
| Language: | Spanish |

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| Course Model: | B 1 | |
| a. Basic Learning (EB): | | 60% |
| b. Practical Learning (EPD): | | 40% |

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2. LECTURERS

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| Coordinator | |
| Name: | Enrique Ramos Gómez |
| School: | School of Experimental Sciences |
| Department: | Molecular Biology and Biochemical Engineering |
| Area: | Chemical Engineering |
| Office Hours: | Mondays and Tuesdays: 11.00-13.00 and 16.00-17.00 (previous appointment through e-mail) |
| Office: | 22B11 |
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3. TOPICS

UNIT 1.- INTRODUCTION. GENERAL CONSIDERATIONS.

Definition. Structure. Stages / Phases of a project. Evaluation criteria. People and entities participating in a project.

UNIT 2.- STRUCTURE OF A PROJECT.

Memory document. Flat documents. Document specification. Budget document.

ITEM 3.- PLANNING AND PROGRAMMING OF THE PROJECT.

Cost-Time Relationship PERT method. PERT in certainty. PERT in uncertainty. Strategic and tactical analysis. PERT costs: time-cost curve. PERT resources: GANTT diagram.

UNIT 4.- ECONOMIC EVALUATION (I). THE CAPITAL.

The Capital Types of Capital. Estimated Fixed Capital. Estimation of Working Capital. The costs. Types of Costs. Estimation of costs.

UNIT 5.- ECONOMIC EVALUATION (II). MEASURE OF PROFITABILITY.

Profitability: Static Methods and Dynamic Methods.