# Project management and telecommunications policy

**Academic Year: ( 2021 / 2022 )** **Review date: 03-07-2021**

**Department assigned to the subject: Telematic Engineering Department**

**Coordinating teacher: SANTAELLA VALLEJO, JUAN**

**Type: Compulsory ECTS Credits : 6.0**

**Year : 1 Semester : 2**

## OBJECTIVES

The following competences have to be acquired:
CG3: Capacity for managing, planning and supervise multidisciplinary teams
CG5: Capacity for developing, strategic planning, steering, coordinating and technical and economic managing projects in every scope of telecommunications engineering followingthe appropriate environmental and quality criteria
CG6: Capacity for executive management, technical management and project management of research, development and innovation projects in enteerprises and in technology centres
CG10: Capacity for applying the economic, human resource and project management principles as well as the legislation, regulation and standardization of telecommmunications
CG13: Knowledge, understanding and capacity for applying the required legislation in the exercise of profession of Telecommunicatiuons Engineer
CE17: Capacity for developing, steering, coordinating and technical and economic managing projects about: telecommunications systems, neworks, infrastructures, services and facilities including including supervision and coordination of its partial sub-projects of their corresponding ancillary work, such us common telecommunications facilities in buidings or residential premises, including projects of digital home, telecommunication facilities in transport and environment, with its ancillary installations of power supply and electromagnetic emisions evaluation and compatibility

## DESCRIPTION OF CONTENTS: PROGRAMME

Concept, Phases ans structures of the organization of a project
Integrated Management of Projects
Conctracting and subcontracting Projects
Projects Evaluation
General Planing
Programming Projects: PERT Methodology and precedents
Programming techniques with limited resources. Heuristics
Programming Techniques for balancing resources expenditure
Advance Monitoring: PERT-cost methodology
Classical Organization of Documents
Telecommunication Standards
Multidisciplinary Projects Concurrent Engineering
Practical cases: Projects with energy supply, evaluation of electromagnetic compatibility about:
1. Telecomunication sytems, networks, infrastructures and services includin supervision and coordination of partially subcontracted projects
2. Digital Home
3. Infrastrucutures for transport and Energy management

## LEARNING ACTIVITIES AND METHODOLOGY

Learning activities include:

Tutorials, solving doubts classes for reduced number of participants, presentations made by the students, individual tutorial and personnal assignements, incding problems setting, testing and exams, oriented to the approriation of technical background

Individual tutoring and individual assignement

## ASSESSMENT SYSTEM

The evaluation process will take into account the learning objectives starting from the individual and colective workpackage of the students. A permanent evaluation of the activities should be made through exercises, problems, examinations, workshop activities and further learning activities. The final score will be include individual and collective activities of the students. The final examination will provide the 50% of the final score, and the remaining will be integrated by the results of the rest of the activities

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| **% end-of-term-examination:** | 50 |
| **% of continuous assessment (assigments, laboratory, practicals…):** | 50 |