Academic Year/course: 2021/22

68654 - Project Management

Syllabus Information

Academic Year: 2021/22
Subject: 68654 - Project Management
Faculty / School: 179 - Centro Universitario de la Defensa - Zaragoza
Degree: 578 - Master's in Direction and Management of Defense Procurement Systems
ECTS: 13.0
Year: 1
Semester: Annual
Subject Type: Compulsory
Module:

1. General information

1.1. Aims of the course

The main objective of the course is for the student to acquire knowledge and understanding of the more specific part, such as departmental responsibility, with application of control methods, design and follow-up, risk study, quality management, progress measurement and its metrics. Special emphasis is placed on the use of systems engineering to cover the entire program process, as well as guidelines are given for the definition of requirements, the development of reference documents in defense systems acquisitions, and the completion and audit and closure of the project.

1.2. Context and importance of this course in the degree

The course develops the contents for a detailed knowledge of the characteristics of the direction and management of projects. It is a central element in any management process in the public environment and provides tools for decision making at the managerial level, with the appropriate integrated management perspective that program management requires, through systems engineering.

1.3. Recommendations to take this course

There are no prerequisites to take this course. However, for its better use, it is recommended that it be taken once the course on Defense Systems Acquisition Policies has been completed. With the global vision of the whole formal and regulated process for the procurement of systems for the Defense, it is possible to deepen in the keys of the Project Direction and Management.

2. Learning goals

2.1. Competences

CB6 - Possess and understand knowledge that provides a basis or opportunity for originality in the development and/or application of ideas, often in a research context.

CB7 - That students know how to apply acquired knowledge and problem-solving skills in new or unfamiliar environments within broader (or multidisciplinary) contexts related to their area of study.

CB8 - That students are able to integrate knowledge and face the complexity of making judgments based on incomplete or limited information, including reflections on the social and ethical responsibilities linked to the application of their knowledge and judgments.

CB9 - That students know how to communicate their conclusions and the ultimate knowledge and reasons that support them to specialized and non-specialized audiences in a clear and unambiguous way.

CB10 - That students possess the learning skills that will enable them to continue studying in a way that will be largely self-directed or autonomous.

CG2 - Ability to understand and manage at a managerial and senior management level the technical, economic, legislative and political aspects of the defense and security procurement environment.

GC3 - High capacity for analysis and synthesis.

GC6 - Ability to work and lead interdisciplinary teams.

GC7 - Show initiative and entrepreneurial spirit.

Specific Competences

SC2 - Management of material acquisition programs.

SC3 - Management of files according to the laws, regulations and instructions in force.

SC4 - Identification, direction and management of logistic requirements associated with procurement programs.

2.2. Learning goals

The course develops the contents to carry out the direction and management of a project from its initial phases to the corresponding audit and closure of the project. Students are expected to be able to manage the different aspects of a project such as planning and scheduling, project progress control, quality management, risk management, safety concept and management. Special emphasis will be given to systems engineering as a tool for project management and correlation model between project management and program management in the DGAM environment.

2.3. Importance of learning goals

This subject has a strong engineering and communication language character, that is, it offers training with contents of immediate application and development, necessary for the preparation of reports or technical documents in the labor and professional market. It is therefore a subject of a transversal nature. Regardless of the field of technology in which the project is framed, this methodology facilitates the achievement of the best results in relation to the three basic objectives or pillars of any project: QUALITY, DEADLINE AND COST, and allows the synchronization between this transversality and the application of this theory in the field of defense systems acquisitions.

3. Assessment (1st and 2nd call)

3.1. Assessment tasks (description of tasks, marking system and assessment criteria)

The following evaluation tests will be carried out:

- Self-assessment activities.

- Resolution of exercises and practical work.

4. Methodology, learning tasks, syllabus and resources

4.1. Methodological overview

Teaching shall be semi-presential, combining virtual teaching sessions and presential sessions at least once a month. These presential sessions will be dedicated to assessment tasks and to those thematic blocks in which the students? presence, due to their content, helps to increase the comprehension of the subject.

? NON PRESENCIAL ACTIVITIES. All the activities will be performed by means of the virtual campus, providing students access to a great amount of relevant material. Furthermore, this type of teaching facilitates the interaction between students and teachers by means of chats and forums throughout the sessions. A key element for students will be to have a Working Guide for every subject, which will include a recommended schedule regarding the readings and activities included in each thematic unit aimed at facilitating the monitoring by the teacher.

? Some on the subjects will be delivered in virtual classes in which the teacher will connect to a videoconference platform while each student will connect from their own devices, so their presence is not required. These classes will be performed through the Armed Forces ? platform, recently migrated to Moodle, and the implementation of a multiple videoconference platform, allowing students and teachers to build a teaching community where they can share their doubts, reflections and opinions. Online synchronous and asynchronous meetings, by means of tools such as forums of debate, chats or even videoconferences, will be open to voluntary participation. Guest lecturers or professionals can also participate. Planning will be fortnightly in order to promote interaction between the students and their subjects and teachers.

? PRESENCIAL ACTIVITIES. They consist of traditional type lectures in which different types of problems and assessments will be addressed. They will take place in those facilities designated by the Ministry of Defense in Madrid.

Dates will be settled according to the academic schedule and the time table set by the Defense University Center.

4.2. Learning tasks

In order to achieve the objectives, the following activities shall be carried out:

- Presential sessions: theoretical and practical activities promoting student participation.
- Virtual sessions: theoretical and practical activities carried out in a virtual manner.
- Distance teaching: activities carried out through the campus providing students with a great amount of material to

work with.

- Teacher-student interaction using chats and forums developed throughout the session.

4.3. Syllabus

1. Introduction
2. Project Integration Management
3. Project scope management
4. Time management of a project
5. Cost management of a project
6. Procurement management of a project
7. Quality management of a project

4.4. Course planning and calendar

This is a 13 ETCS course, totaling 325 hours, of which 130 hours are dedicated to the subjects taught by the teachers and 195 hours is the time dedicated to the additional work carried out by the students.

There will be 6 presential sessions consisting of 30 hours of lectures and 4 hours of virtual classes. The rest of the activities up to 130 hours shall be carried out as distance classes.

Dates will be settled according to the academic schedule and the time table set by the Defense University Center.

In the event that the health situation and evolution prevents the holding of face-to-face sessions, they will be carried out remote

4.5. Bibliography and recommended resources

http://psfunizar10.unizar.es/br13/egAsignaturas.php?codigo=68654