

[GER204] PROFESSIONAL PLACEMENT IV

GENERAL INFORMATION

| | | | |
|------------------|--|--|---|
| Studies | DEGREE IN INDUSTRIAL ELECTRONICS ENGINEERING | Subject | PROFESSIONAL PLACEMENT |
| Semester | 2 | Course | 3 |
| Character | OPTIONAL | Mention / Field of specialisation | |
| Plan | 2017 | Modality | Adapted Face-to-face |
| Credits | 3 | Hours/week | 3.17 |
| | | Language | EUSKARA |
| | | Total hours | 57 class hours + 18 non-class hours = 75 total hours |

Note: Considerations concerning academic activities: Some teaching activities have been planned to be carried out face to face, others online and others both ways. If physical presence is reduced due to the COVID, some face to face activities will be carried out either online or will be replaced by others.

Note: Considerations concerning the assessment system: Assessment criteria percentages or the assessment criteria itself can be modified due to the COVID, if the online context prevails over the physical presence.

PROFESSORS

ARANGUREN DERIOZPIDE, JON

REQUIRED PREVIOUS KNOWLEDGE

| Subjects | Knowledge |
|---|---|
| <i>(No specific previous subjects required)</i> | <i>(No previous knowledge required)</i> |

SKILLS

VERIFICA SKILLS

GENERAL

GECT01 - To be able to draft, sign and develop Industrial Electronics engineering projects with the aim being, in accordance with the acquired knowledge, the construction, renovation, repair, maintenance, demolition, manufacture, installation, assembly and exploitation of structures, mechanical equipment, energy facilities, electric and electronic installations, industrial plants and facilities and manufacturing and automation processes.

GECT02 - To be able to manage tasks in engineering projects.

GECT03 - To build on basic concepts and technologies to expand knowledge of new theories and methods, and to acquire flexibility to adapt to new situations

GECT04 - To be able to take the initiative in problem solving, decision making, creativity, critical thinking, effective communication and the transfer of knowledge and skills in the field of Industrial Electronic Engineering.

GECT05 - Possessing the knowledge for performing measurements, calculations, valuations, estimates, inspections, studies, reports, work plans and other similar tasks.

GECT06 - Ability to work with mandatory specifications, regulations and standards.

GECT07 - To be able to analyse and assess the social and environmental impact of technical solutions.

GECT08 - Ability to apply quality principles and techniques.

GECT09 - Possessing organisation and planning skills within the environment of the company and other institutions and organisations

GECT10 - To be able to do their job in multilingual, multidisciplinary environments.

GECT11 - Possessing the knowledge, understanding and ability to apply the legislation applicable to their work as an industrial engineering technician.

CROSS

GECG01 - To have acquired advanced knowledge and have shown an understanding of the theoretical and practical aspects and of the work methodology in their field of study to a depth which reaches the forefront of knowledge;

GECG02 - To be able to understand and apply knowledge to problem solving in complex work situations or specialised and professional environments calling for creative and innovative ideas, using self-developed arguments and procedures;

GECG03 - To be capable of gathering and interpreting data and information on which to base conclusions including, when necessary and pertinent, reflection on matters of a social, scientific or ethical nature in their field of study;

GECG04 - To be able to respond adequately in complex situations or situations that call for innovative solutions in both the academic field and work environments within their field of study;

GECG05 - To clearly and accurately communicate knowledge, methods, ideas, problems and solutions in their field of study to all kinds of audiences, both expert and lay, in different languages.

GECG06 - To be able to identify their own training needs in their field of study and work environment and to organise their own autonomous learning process in all kinds of contexts (structured or not).

GECG07 - To be able to do their job in cooperative, participatory environments, with awareness of social responsibility.

ENAE LEARNING RESULTS

ENA103 - Knowledge and comprehension: Awareness of the multidisciplinary context of engineering.

ENA111 - Practical application of engineering: Understanding of the applicable techniques and methods for analysis, design and research and their limitations in the field of their speciality.

ENA112 - Practical application of engineering: Practical competency to solve complex problems, carry out complex engineering projects, and conduct investigations specific to their speciality.

ENA113 - Practical application of engineering: Knowledge of application of materials, equipment and tools, engineering technology and processes, and their limitations in the field of their speciality.

- ENA114** - Practical application of engineering: Ability to apply standards of engineering practice in their speciality.
- ENA116** - Practical application of engineering: General ideas on economic, organisational and management issues (such as project, risk and change management) in the industrial and business context.
- ENA119** - Communication and Teamwork: Ability to effectively communicate information, ideas, problems and solutions in the field of engineering and with society in general.
- ENA120** - Communication and Teamwork: Ability to operate effectively in domestic and international contexts, individually and as a team, and to cooperate with both engineers and people from other disciplines.
- ENA122** - Continued training: Ability to stay up to date on science and technology innovations.

LEARNING RESULTS

RG301 Assumes responsibilities in the work team, organizing and planning the tasks to be developed, facing the contingencies and encouraging the participation of its members.

| LEARNING ACTIVITIES | | CH | NCH | TH |
|---|--|--------|--------------------|---------|
| Practices in real environments | | 9,5 h. | 3 h. | 12,5 h. |
| EVALUATION SYSTEM | | W | MAKE-UP MECHANISMS | |
| Technical skills, involvement in the project, finished work, obtained results, handed documentation, presentation and technical defence | | 80% | (No mechanisms) | |
| Observation of student participation and attitude in the proposed training activities | | 20% | | |

CH - Class hours: 9,5 h.
NCH - Non-class hours: 3 h.
TH - Total hours: 12,5 h.

RG302 Analyze the intervening variables in the problem and propose actions for a stable situation.

| LEARNING ACTIVITIES | | CH | NCH | TH |
|---|--|--------|--------------------|---------|
| Practices in real environments | | 9,5 h. | 3 h. | 12,5 h. |
| EVALUATION SYSTEM | | W | MAKE-UP MECHANISMS | |
| Technical skills, involvement in the project, finished work, obtained results, handed documentation, presentation and technical defence | | 80% | (No mechanisms) | |
| Observation of student participation and attitude in the proposed training activities | | 20% | | |

CH - Class hours: 9,5 h.
NCH - Non-class hours: 3 h.
TH - Total hours: 12,5 h.

RG303 Select, apply and assess, in unknown contexts, the most appropriate methods, techniques, regulations, etc. of the engineer's profession

| LEARNING ACTIVITIES | | CH | NCH | TH |
|---|--|-------|--------------------|-------|
| Practices in real environments | | 19 h. | 6 h. | 25 h. |
| EVALUATION SYSTEM | | W | MAKE-UP MECHANISMS | |
| Technical skills, involvement in the project, finished work, obtained results, handed documentation, presentation and technical defence | | 80% | (No mechanisms) | |
| Observation of student participation and attitude in the proposed training activities | | 20% | | |

CH - Class hours: 19 h.
NCH - Non-class hours: 6 h.
TH - Total hours: 25 h.

RG304 Define the problem, develop the solution and present the conclusions in a efficient manner, arguing and justifying each one of them in writing.

| LEARNING ACTIVITIES | | CH | NCH | TH |
|---|--|--------|--------------------|---------|
| Practices in real environments | | 9,5 h. | 3 h. | 12,5 h. |
| EVALUATION SYSTEM | | W | MAKE-UP MECHANISMS | |
| Technical skills, involvement in the project, finished work, obtained results, handed documentation, presentation and technical defence | | 80% | (No mechanisms) | |
| Observation of student participation and attitude in the proposed training activities | | 20% | | |

CH - Class hours: 9,5 h.
NCH - Non-class hours: 3 h.
TH - Total hours: 12,5 h.

RG305 Define the problem, develop the solution and present the conclusions in a efficient manner, arguing and justifying each one of them in spoken form.

| LEARNING ACTIVITIES | | CH | NCH | TH |
|---|--|--------|--------------------|---------|
| Practices in real environments | | 9,5 h. | 3 h. | 12,5 h. |
| EVALUATION SYSTEM | | W | MAKE-UP MECHANISMS | |
| Technical skills, involvement in the project, finished work, obtained results, handed documentation, presentation and technical defence | | 80% | (No mechanisms) | |
| Observation of student participation and attitude in the proposed training activities | | 20% | | |

CH - Class hours: 9,5 h.
NCH - Non-class hours: 3 h.
TH - Total hours: 12,5 h.

CONTENTS

LEARNING RESOURCES AND BIBLIOGRAPHY

| Learning resources | Bibliography |
|--------------------|-------------------|
| Moodle Platform | (No bibliography) |