

Politeknikoa Escuela Politécnica

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Goi Eskola Politeknikoa | Mondragon Unibertsitatea

Course: 2024 / 2025 - Course planning

Superior [GJK203] MAINTENANCE AND REPAIR OF ELECTRONIC EQUIPMENT **GENERAL INFORMATION** Studies DEGREE IN MECHATRONICS ENGINEERING Subject ? Semester 2 Course 2 Mention / Field of ??? specialisation Character OPTIONAL Plan 2022 Modality Face-to-face Language EUSKARA/CASTELLANO Credits 4,5 Hours/week 3.69 Total hours 66.5 class hours + 46 non-class hours = 112.5 total hours 2030 AGENDA GOALS M PROFESSORS (No professor appointed) **REQUIRED PREVIOUS KNOWLEDGE** Subjects Knowledge **FLECTRICAL MACHINES** (No previous knowledge required) ELECTRICAL POWER SYSTEMS LEARNING RESULTS ECTS LEARNING RESULTS кс sк AB GJR217 - To know the principles for the maintenance of different electronic equipment, detecting, 4.02 X diagnosing and repairing possible breakdowns in said equipment 0,32 G-RTR1 - To develop interdisciplinary projects specific to their specialty and of gradual complexity, х becoming aware of respect for human rights and fundamental rights, and analyzing and assessing the impact of the proposed solutions on the SDGs - to acquire and/or apply basic, advanced and/or avant-garde, demonstrating the ability to work in multidisciplinary teams and/or undertake further studies with a high degree of autonomy G-RTR2 - To express information, ideas and the arguments that support them in an orderly, clear and 0 16 x coherent manner, orally and in writing, based on quality information, self-made or obtained from different sources, using inclusive and non-discriminatory language Total: 4,5 KC: Knowledge or Content / SK: Skills / AB: Abilities SECONDARY LEARNING RESULTS 2RGJ291 (2 sem) СН NCH ΤН LEARNING ACTIVITIES 2 h. Carrying out/resolving projects/challenges/cases, etc. to provide solutions to problems in 3 h 1 h. interdisciplinary contexts, real and/or simulated, individually and/or in teams w **EVALUATION SYSTEM** MAKE-UP MECHANISMS 100% Reports on the completion of exercises, case studies, (No mechanisms) computer exercises, simulation exercises, laboratory Comments: Continuous assessment. Retake is not foreseen. exercises, term projects, challenges and problems CH - Class hours: 2 h. NCH - Non-class hours: 1 h. TH - Total hours: 3 h. 2RGJ292 (2 sem) NCH LEARNING ACTIVITIES СН ΤН 2 h Carrying out/resolving projects/challenges/cases, etc. to provide solutions to problems in 1 h 1 h interdisciplinary contexts, real and/or simulated, individually and/or in teams **EVALUATION SYSTEM** w MAKE-UP MECHANISMS



100%

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Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems (No mechanisms)

CH - Class hours: 1 h. NCH - Non-class hours: 1 h. TH - Total hours: 2 h.

GJ293 (2 sem)						
ARNING ACTIVITIES			СН	NCH	ТН	
evelopment and writing of records, reports, presentations, ojects/work experience/challenges/case studies/experiment dividually and/or in teams			1 h.	1 h.	2 h.	
ALUATION SYSTEM	W	MAKE-UP MECHANISMS				
ports on the completion of exercises, case studies,	100%					
mputer exercises, simulation exercises, laboratory ercises, term projects, challenges and problems	Comments: Revision and correction of semester project				en report of the	

NCH - Non-class hours: 1 h.

TH - Total hours: 2 h.

RGJ247 [!] Detecta, diagnostica y repara averías en equipos electrónicos

interdisciplinary contexts, real and/or simulated, individuall	rovide sc ly and/or	blutions to problems in	2 h. 6 h.	4 h. 4 h.	6 h. 10 h.	
interdisciplinary contexts, real and/or simulated, individuall	y and/or		6 h.	4 h.	10 h.	
Presentation by the teacher in the classroom, in participate		Carrying out/resolving projects/challenges/cases, etc. to provide solutions to problems in interdisciplinary contexts, real and/or simulated, individually and/or in teams			10 h.	
Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects Practical work in workshops and/or laboratories, individually and/or in teams			8 h.	3 h.	11 h.	
			13,5 h.	10 h.	23,5 h.	
EVALUATION SYSTEM	W	MAKE-UP MECHANIS	SMS			
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems Individual written and/or oral tests or individual coding/programming tests	60% 40%	Individual written and/or oral tests or individual coding/programming tests Comments: Final mark: written retake exam (75%) + exar Laboratory practices will be made-up by on-going evaluation				
:H - Class hours: 29,5 h. I CH - Non-class hours: 21 h. ' H - Total hours: 50,5 h.						

LEARNING ACTIVITIES			Ch	NCH	in	
Carrying out/resolving projects/challenges/cases, etc. to interdisciplinary contexts, real and/or simulated, individual			2 h.	1 h.	3 h.	
EVALUATION SYSTEM	W	MAKE-UP MECHANISMS				
Reports on the completion of exercises, case studies,	100%		(No mech	anisms)		



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computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems

Comments: Continuous assessment. Retake is not foreseen.

CH - Class hours: 2 h. NCH - Non-class hours: 1 h. TH - Total hours: 3 h.

2RGJ294 (2 sem) LEARNING ACTIVITIES СН NCH ΤН Development and writing of records, reports, presentations, audiovisual material, etc. on 1 h. 2 h. 1 h. projects/work experience/challenges/case studies/experimental investigations carried out individually and/or in teams w **EVALUATION SYSTEM** MAKE-UP MECHANISMS 100% Reports on the completion of exercises, case studies, (No mechanisms) computer exercises, simulation exercises, laboratory Comments: Continuous assessment. Retake is not foreseen. exercises, term projects, challenges and problems CH - Class hours: 1 h. NCH - Non-class hours: 1 h. TH - Total hours: 2 h.

RGJ246 [!] Planifica y elabora el mantenimiento de equipos electrónicos

LEARNING ACTIVITIES			СН	NCH	TH	
Personal study and flexible development of concepts and foster more meaningful learning	d subjects	using active dynamics, to	2 h.	4 h.	6 h.	
Carrying out/resolving projects/challenges/cases, etc. to interdisciplinary contexts, real and/or simulated, individua			6 h.	4 h.	10 h.	
Presentation by the teacher in the classroom, in participa procedures associated with the subjects	tory class	es, of concepts and	12 h.	6 h.	18 h.	
Practical work in workshops and/or laboratories, individua	ally and/or	r in teams	10 h.	6 h.	16 h.	
EVALUATION SYSTEM	W	MAKE-UP MECHANISMS				
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	60%	Individual written and/or oral tests or individual coding/programming tests Comments: Final mark: written retake exam (75%) + exam (25%)				
excluses, term projects, challenges and problems	40%	Laboratory practices will	be made-u	by on-going	evaluation.	

CH - Class hours: 30 h. NCH - Non-class hours: 20 h. TH - Total hours: 50 h.

CONTENTS

1. MAINTENANCE OF ELECTRONIC EQUIPMENT2. DIAGNOSIS OF FAILURES IN ELECTRONIC EQUIPMENT3. REPAIR OF BREAKD OWNS OF ELEMENTS AND SYSTEMS USED IN ELECTRONIC EQUIPMENT.

LEARNING RESOURCES AND BIBLIOGRAPHY

Learning resources

[!] Laboratorios

[!] Realización de prácticas en laboratorio

Bibliography

http://katalogoa.mondragon.edu/janium-bin/janium_login_opac_re_ln k.pl?grupo=MECATRONICA22&ejecuta=40&_ST



[!] Plataforma Moodle

- [!] Transparencias de la asignatura
- [!] Consultas en páginas web relacionadas con el tema