



	GENERAL IN	FORMATION				
Studies DEGREE IN IND ENGINEERING	USTRIAL ORGANIZATION	Subject	PRODUCTION E	ENGINEER	ING	
Semester 2 Character COMPULSORY	Course 2	Mention / Field of specialisation				
Plan 2022	Modality Face-to-face	Language	EUSKARA/CAS	TELLANO		
Credits 6	Hours/week 5		90 class hours + <u>hours</u>		ss hours	= <u>150 to</u>
	2030 AGEN	NDA GOALS				
Num 8 ECCTI NORMAN 9 MACTIVITION 12 ECONOMIC III Information Information Information						
	PROFE	SSORS				
EGUREN EGUIGUREN, JOS	E ALBERTO					
UNZUETA ARANGUREN, GO	ORKA					
	REQUIRED PREVI	OUS KNOWLED	GE			
Subje	ects		Knowle	edge		
(No specific previous	subjects required)	(1	No previous know	ledge requ	ired)	
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computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems

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

2RGO291 (2 sem)					
LEARNING ACTIVITIES			СН	NCH	ТН
Carrying out/resolving projects/challenges/cases, etc. to p interdisciplinary contexts, real and/or simulated, individual			2 h.	1 h.	3 h.
EVALUATION SYSTEM	W	MAKE-UP MECHANIS	SMS		
Presentation and defence of exercises, case studies, computer practical work, simulation practical work, laboratory practical work, term projects, end of degree project, master's thesis, challenges and problems	100%		(No mech	anisms)	
CH - Class hours: 2 h. NCH - Non-class hours: 1 h. TH - Total hours: 3 h.					
RGO206 [!] Identifica los métodos y herramientas de especificaciones del cliente	prevenció	n de la gestión de la ca	lidad para c	cumplir con la	15
LEARNING ACTIVITIES			СН	NCH	ТН
Development and writing of records, reports, presentation projects/work experience/challenges/case studies/experin individually and/or in teams			5 h.	5 h.	10 h.
Conducting tests, giving presentations, presenting defence checkpoints	es, taking	examinations and/or doin	g 5h.		5 h.
Computer simulation exercises, individually and/or in team	าร		10 h.	10 h.	20 h.
Presentation by the teacher in the classroom, in participat procedures associated with the subjects	ory classe	s, of concepts and	10 h.		10 h.
Carrying out exercises and solving problems individually a	and/or in te	ams	10 h.	10 h.	20 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	45%		(No mech	anisms)	
Presentation and defence of exercises, case studies, computer practical work, simulation practical work, laboratory practical work, term projects, end of degree project, master's thesis, challenges and problems	15%				
Individual written and/or oral tests or individual coding/programming tests	40%				
CH - Class hours: 40 h. NCH - Non-class hours: 25 h. TH - Total hours: 65 h.					

RGO205 [!] Aplica los métodos y herramientas de gestión de la calidad para asegurar que se cumple con las especificaciones establecidas por el cliente



Goi Eskola Politeknikoa | Mondragon Unibertsitatea Course: 2024 / 2025 - Course planning



					Superior
LEARNING ACTIVITIES			СН	NCH	ТН
Conducting tests, giving presentations, presenting defences, taking examinations and/or doing checkpoints			5 h.	-	5 h.
Carrying out/resolving projects/challenges/cases, etc. to provide solutions to problems in interdisciplinary contexts, real and/or simulated, individually and/or in teams			5 h.	15 h.	20 h.
Computer simulation exercises, individually and/or in tea	Computer simulation exercises, individually and/or in teams			5 h.	15 h.
Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects			10 h.		10 h.
Carrying out exercises and solving problems individually	and/or in t	eams	10 h.	10 h.	20 h.
EVALUATION SYSTEM	W	MAKE-UP MECHANISM	IS		
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	30%		(No mech	anisms)	
Presentation and defence of exercises, case studies, computer practical work, simulation practical work, laboratory practical work, term projects, end of degree project, master's thesis, challenges and problems	30%				
Individual written and/or oral tests or individual coding/programming tests	40%				
CH - Class hours: 40 h. NCH - Non-class hours: 30 h. TH - Total hours: 70 h.					

2RG0292 (2 sem)						
LEARNING ACTIVITIES			СН	NCH	ТН	
Carrying out/resolving projects/challenges/cases, etc. to projects/challenges/cases, etc. to provide the interdisciplinary contexts, real and/or simulated, individuated in the interdisciplinary contexts.		2 h.	1 h.	3 h.	_	
EVALUATION SYSTEM	W	MAKE-UP MECHANI	SMS			
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems CH - Class hours: 2 h. NCH - Non-class hours: 1 h. TH - Total hours: 3 h.	100%		(No mech	anisms)		_
2RGO293 (2 sem)						

LEARNING ACTIVITIES Development and writing of records, reports, presentations, audiovisual material, etc. on			2 h.	1 h.	3 h.
projects/work experience/challenges/case studies/experi individually and/or in teams					
EVALUATION SYSTEM	W	MAKE-UP MECHAN	ISMS		
Presentation and defence of exercises, case studies, computer practical work, simulation practical work, laboratory practical work, term projects, end of degree project, master's thesis, challenges and problems	100%		(No mech	anisms)	
CH - Class hours: 2 h. NCH - Non-class hours: 1 h. TH - Total hours: 3 h.					





2RGO294 (2 sem) LEARNING ACTIVITIES СН **NCH** ΤН Development and writing of records, reports, presentations, audiovisual material, etc. on 2 h. 1 h. 3 h. projects/work experience/challenges/case studies/experimental investigations carried out individually and/or in teams w MAKE-UP MECHANISMS **EVALUATION SYSTEM** 100% Presentation and defence of exercises, case studies, (No mechanisms) computer practical work, simulation practical work, laboratory practical work, term projects, end of degree project, master's thesis, challenges and problems CH - Class hours: 2 h. NCH - Non-class hours: 1 h. TH - Total hours: 3 h.

CONTENTS

1.- Introduction to Quality Management2.- Quality control2.1 Quality Control: Zero Defects2.2 Product ins pection2.3 Self-control2.4 Inspection at origin. Anti-vacuum devices. POKA-YOKE3.- Quality Planning/Preve ntion3.1 Advanced Quality Planning (PAC)3.2 Failure Mode and Effects Analysis (FMEA). 4. - Quality 4.0: T he Challenging Future of Quality 5.- Statistical Process Control (SPC- S.P.C.)5.1 Introduction to statist ical process control5.2 Statistics applied to quality control5.3 Capacity studies5.4 Control charts5.5 Im plementation of statistical control

LEARNING RESOURCES AND BIBLIOGRAPHY

Learning resources	Bibliography				
[!] Plataforma Moodle	Métodos Estadísticos. Control y mejroa de la calidad. Albert Prat				
 [!] Apuntes de la asignatura [!] Presentaciones en clase [!] Programas [!] Software específico de la titulación 	bartes et al. 2004. UPC				
	Applied Reliability and Quality. Fundamentals, Methods and				
	Procedures. B.S.Dhillon. 2007, Springer				
	Prozesuko HMEA. J.A. Eguren, 2005, Elhuyar				
	Control económico de la calidad de productos manufacturados, W.A. Shewhart, 1997. Diaz de Santos				
	Introducción a la Gestión de la Calidad, Mirnada Gonzalez, F.J. et al, 2007, DELTA				