

Mondragon Unibertsitatea Goi Eskola Politeknikoa Escuela Politécnica Superior

		GENERAL IN					
Studies	-	USTRIAL DESIGN AND		MATERIALS AND F	ROCE	SS	
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Semester	2 COMPULSORY	Course 2	Mention / Field of specialisation				
	2022	Modality Face-to-face	Language	EUSKARA/CASTEL			
Credits		Hours/week 3.56		64 class hours + 48		lass hou	rs = <u>112.5</u>
				<u>hours</u>			
		2030 AGEN	NDA GOALS				
VORK AND C GROWTH 9 INDUSTRY, INVOLUTION							
		PROFE	SSORS				
FERNAND	EZ MANCHADO,	RAUL					
ARISTIMU	ÑO OSORO, PAT	XI XABIER					
		REQUIRED PREVI	OUS KNOWLED	GE			
	Subje	ects		Knowledg			
			(1	No previous knowled	ge requ	ired)	
APHIC EXPRE	ESSION II IG PROCESSES I						
			G RESULTS				
ARNING RESI		LEANNING	B RESULTS	КС	SK	AB	ECTS
		production processes related to th	ne transformation of pl		x		4,02
	netal tools, and se ments of a product	lect the most appropriate one for t	he tooling of each con	mponent and			
		ry projects specific to their special	hy and of gradual com	alovity			0,32
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		an rights and fundamental rights,	and analyzing and as	sessing the	x		-,
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SECONDARY LEARNING RESULTS

2RGD294 (2 sem)

Development and writing of records, reports, presentation projects/work experience/challenges/case studies/experim ndividually and/or in teams			2 h.	2 h.		
EVALUATION SYSTEM	w	MAKE-UP MECHANISMS				
Presentation and defence of exercises, case studies, computer practical work, simulation practical work, aboratory practical work, term projects, end of degree project, master's thesis, challenges and problems	100%	Presentation and defence of exercises, case studies, comp practical work, simulation practical work, laboratory practica term projects, end of degree project, master's thesis, challe and problems				

RGD206 [!] Ser capaz de utilizar herramientas de Fabricación Asistida por Ordenador CNC-CAM-CAE

LEARNING ACTIVITIES				NCH	ТН	
Development and writing of records, reports, presentatic projects/work experience/challenges/case studies/exper individually and/or in teams		13 h.	13 h.			
Personal study and flexible development of concepts and subjects using active dynamics, to foster more meaningful learning			4 h.	8 h.	12 h.	
Computer simulation exercises, individually and/or in teams			16 h.	4 h.	20 h.	
Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects				2,5 h.	37,5 h.	
Carrying out exercises and solving problems individually	and/or in te	eams	8 h.	10 h.	18 h.	
EVALUATION SYSTEM	W	MAKE-UP MECHANIS	AKE-UP MECHANISMS			
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	8%	Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems				
Presentation and defence of exercises, case studies, computer practical work, simulation practical work, laboratory practical work, term projects, end of degree	20%	Individual written and/or oral tests or individual coding/programming tests				
project, master's thesis, challenges and problems Individual written and/or oral tests or individual coding/programming tests	72%					

2RGD290 (2 sem)							
LEARNING ACTIVITIES		СН	NCH	ТН			
Development and writing of records, reports, presentations, audiovisual material, etc. on 3 h. 3 h. 3 h. projects/work experience/challenges/case studies/experimental investigations carried out individually and/or in teams							
EVALUATION SYSTEM	w	MAKE-UP MECHANISMS					
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory	100%	Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term					





exercises, term projects, challenges and problems

projects, challenges and problems

CH - Class hours: 0 h. NCH - Non-class hours: 3 h.

TH - Total hours: 3 h.

2RGD291 (2 sem)					
LEARNING ACTIVITIES			СН	NCH	ТН
Development and writing of records, reports, presentation projects/work experience/challenges/case studies/experin individually and/or in teams				3 h.	3 h.
EVALUATION SYSTEM	W	MAKE-UP MECHANISI	MS		
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems Co-assessment	n the completion of exercises, case studies, exercises, simulation exercises, laboratory , term projects, challenges and problems Projects, challenges and problems				
CH - Class hours: 0 h. NCH - Non-class hours: 3 h. TH - Total hours: 3 h.					
2RGD293 (2 sem)					
LEARNING ACTIVITIES			СН	NCH	тн
Development and writing of records, reports, presentatior projects/work experience/challenges/case studies/experir individually and/or in teams				2 h.	2 h.
EVALUATION SYSTEM	W	MAKE-UP MECHANIS	-		
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	100%	Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems			
CH - Class hours: 0 h. NCH - Non-class hours: 2 h. TH - Total hours: 2 h.					
9P(-)-9(2) (2 com)					
2RGD292 (2 sem)					
LEARNING ACTIVITIES			СН	NCH	тн
Carrying out/resolving projects/challenges/cases, etc. to p interdisciplinary contexts, real and/or simulated, individua			1 h.	1 h.	2 h.
EVALUATION SYSTEM	W	MAKE-UP MECHANISI	MS		
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	100%		(No mecha	anisms)	
CH - Class hours: 1 h. NCH - Non-class hours: 1 h. TH - Total hours: 2 h.					





Bibliography

PROCESS SELECTION From Design to Manufacture, Swift and

CONTENTS

1) CHIP REMOVAL MACHINING- Theory- Cutting conditions- Process sheets2) SPECIAL MANUFACTURING PROCESSES-Wire and die sinking EDM- Finishing processes3) CNC AND CAD-CAM PROGRAMMING- Basic CNC programming- CAD-C AM programming focused on molds

LEARNING RESOURCES AND BIBLIOGRAPHY

Booker

[!] Apuntes de la asignatura

[!] Consultas en páginas web relacionadas con el tema

[!] Laboratorios

[!] Plataforma Moodle

[!] Proyección de videos

[!] Realización de prácticas en ordenador