Course: 2023 / 2024 - Course planning

Goi Eskola Politeknikoa Escuela Politécnica

erior							
		[MNG005] MODEL	LLING	G AND SIMU	LATION		
		GENERA	AL INF	ORMATION			
Studies		EE IN DATA ANALYSIS, TY AND CLOUD COMPUTIN	1G	Subject	Methodological	Research Fou	Indations
Semester Character	1 OPTIONAL	Course 2		Mention / Field of specialisation	???		
Plan		Modality Adapted Face-to-fa	iace	Language	EUSKARA/CAS	TELLANO	
Credits	3	Hours/week 0		Total hours	51 class hours + hours	- 24 non-class	hours = <u>75 tot</u>
		PR	OFES	SORS			
EGUREN E	GUIGUREN, JO	SE ALBERTO					
UNZUETA	ARANGUREN, G						
	.	REQUIRED PR	REVIO				
(Nic	Subj	ects s subjects required)		(1	Knowle	-	<i>d</i>)
(140	specific previous	s subjects required)	SKILL		to previous know	neuge require	u)
			SNILL	-3			
ERIFICA SKILL PECIFIC	S						
	o manage Resea	urch, Development, and techn	ological	Innovation			
ASIC	o manage Resea	irch, Development, and techn	lological	innovation.			
	and understand	mouledge which provides a k		anartunitu ta ha ar	ininal in the days	loomont and/	or oppligation o
	investigation cor	knowledge which provides a b Itext	base or o	opportunity to be or	iginal in the deve	elopment and/	or application c
	inveetigation oor			RESULTS			
		LEARI		CESULIS			
LEARNING AC	-				СН	NCH	TH
Carrying out/resolving projects/challenges/cases, etc. to provide solutions to problems in interdisciplinary contexts, real and/or simulated, individually and/or in teams						8 h.	16,5 h.
Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects					12 h.		12 h.
Carrying out ex	ercises and solvi	ng problems individually and/o	or in tea	ms	5 h.	4 h.	9 h.
EVALUATION	SYSTEM	V	W	MAKE-UP MECH	ANISMS		
computer practi laboratory pract	cal work, simulat ical work, term p	rcises, case studies, ¹ ion practical work, rojects, end of degree ges and problems	100%	Presentation and practical work, sim term projects, end and problems	nulation practical	work, laborate	ory practical wo
CH - Class hour ICH - Non-class TH - Total hours	s hours: 12 h.						
		der conocimientos que apo		a base u oportuni	dad de ser origi	nales en el d	esarrollo y/o
plicación de id	eas, a menudo d	en un contexto de investiga	ición				
LEARNING AC	TIVITIES				СН	NCH	тн
	_	hallenges/cases, etc. to provi	ide solut	ions to problems in	8,5 h.	8 h.	16,5 h.
interdisciplinary	contexts, real ar	nd/or simulated, individually an	nd/or in	teams			
Drecontation by	the teacher in th	e classroom, in participatory	classes	of concepts and	12 h.		12 h.

procedures associated with the subjects



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computer practical work, simulation practical work, laboratory practical work, term projects, end of degree project, master's thesis, challenges and problems practical work, simulation practical work, laboratory practical work, term projects, end of degree project, master's thesis, challenges and problems

CH - Class hours: 25,5 h. NCH - Non-class hours: 12 h. TH - Total hours: 37,5 h.

CONTENTS

1. INTRODUCTION TO DOE2. FULL FACTORIAL DESIGN3. FRACTIONAL FACTORIAL DESIGN4. TAGUCHI METHOD

LEARNING RESOURCES AND BIBLIOGRAPHY

Learning resources	Bibliography
Subject notes	BOX, GEORGE E.P.; HUNTER, WILLIAM G.; HUNTER, J. STUART. Estadística para investigadores. Ed. Reverté, Barcelona, 1988
	PRAT, ALBERT; TORT-MARTORELL, XAVIER; GRIMA, PERE; POZUETA, LOURDES. Métodos Estadísticos. Control y mejora de la calidad. Ed. UPC, Barcelona, 1997. ISBN 84-8301-222-7
	PHADKE, MADHAV S. Quality Engineering using robust design. Ed. AT&T Bell Laboratories, 1989. ISBN 0-13-745167-9.
	TAGUCHI G.; ELSAYED A. E.; HSIANG T. Quality Engineering in Production Systems. Mc Graw Hill, 1989. ISBN 0-07-062830-0.
	HIRANO, Hiriyuki. Poka Yoke. Mejorando la calidad del producto evitado los defectos. Productivity Press, Inc. ISBN: 84-87022-73-1