

Goi Eskola Politeknikoa Escuela Politécnica Superior

		GENER	RAL IN	FORMATION					
Studies	DEGREE IN CO	MPUTER ENGINEERING		Subject	PHYSICS				
Semester	1	Course 1		Mention / Field of					
Character	BASIC TRAININ	G		specialisation					
Plan	2022	Modality Face-t	o-face	Language	EUSKARA				
Credits	6	Hours/week 5.39		Total hours	97 class hours hours	s + 53 nor	n-class	hours	= <u>150 to</u>
		P	ROFE	SSORS					
SARASOL	A ALTUNA. IZASI	KUN							
BADIOLA A	AIESTARAN, XAE	BIER							
AZPI-BELA	TEGI, JULEN (A	RDATZ)							
		REQUIRED	PREVI		GE				
	Subj	ects			Knov	vledge			
(No	o specific previou	s subjects required)		(/	Vo previous kn	owledge r	equire	d)	
		LEA	RNIN <u>G</u>						
ARNING RES	JLTS					кс	sк	AB	ECTS
RA09 - To unde	rstand and maste	er the basic concepts of the	general	laws of fields and wa	ves; and		x		5,4
ctromagnetism	and its application	on to solve engineering pro	blems specialty	v and of gradual com	olexity -		x		0.28
coming aware of	of respect for hum	nan rights and fundamental	rights, a	and analyzing and ass	sessing the				-, -
pact of the prop	osed solutions or	n the SDGs - to acquire and	d/or appl	ly basic, advanced an	d /or				
ant-garde, dem	onstrating the abi	lity to work in multidisciplin	ary team	ns and/or undertake fu	urther studies				
RTR2 - To expre	ess information. id	deas and the arguments the	at suppo	rt them in an orderly.	clear and		x		0,32
nerent manner,	orally and in writ	ing, based on quality inform	nation, s	elf-made or obtained	from different				
urces, using inc	clusive and non-d	iscriminatory language							
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RGI118 [!] Resuelve los problemas y las operaciones en el campo del electromagnetismo, relacionando correctamente las

magnitudes físicas implicadas

LEARNING ACTIVITIES			СН	NCH	тн
Personal study and flexible development of concepts ar foster more meaningful learning	5 h.	2 h.	7 h.		
Presentation by the teacher in the classroom, in particip procedures associated with the subjects	atory classe	es, of concepts and	5 h.	2 h.	7 h.
Carrying out exercises and solving problems individually	y and/or in te	eams	24 h.	16 h.	40 h.
EVALUATION SYSTEM	W	MAKE-UP MECHANIS	MS		
Individual written and/or oral tests or individual coding/programming tests Comments: Minimum grade: 5	100%	Individual written and/or coding/programming tes Comments: Students w retake the exam. Control	r oral tests sts vith less tha point value	or individual In 5 in the Con Will be 25% a	trol point must nd retake 75%.
CH - Class hours: 34 h. NCH - Non-class hours: 20 h. TH - Total hours: 54 h.					

RGI119 [!] Analiza y resuelve los circuitos de corrien	te directa	y la corriente alterna			
LEARNING ACTIVITIES			СН	NCH	тн
Personal study and flexible development of concepts and foster more meaningful learning	l subjects	using active dynamics, to	9 h.	5 h.	14 h.
Carrying out exercises and solving problems individually	and/or in t	eams	24 h.	15 h.	39 h.
Practical work in workshops and/or laboratories, individua	ally and/or	in teams	1 h.		1 h.
EVALUATION SYSTEM	w	MAKE-UP MECHANIS	MS		
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	5%	Individual written and/or coding/programming tes Comments: Students w	r oral tests sts vith less tha	or individual In 5 in the Cor	ntrol point must
Individual written and/or oral tests or individual coding/programming tests	95%	retake the exam. Control	point value	will be 25% a	ind retake 75%.
Comments: Minimum grade: 5					
CH - Class hours: 34 h. NCH - Non-class hours: 20 h. TH - Total hours: 54 h.					

RGI190 [!] Conocer y aplicar las fases para desarrollar de forma guiada, con los objetivos y la planificación previamente definidos, un proyecto de complejidad técnica acorde con los conocimientos de formación básica de la ingeniería. Reflexiona sobre los cono

LEARNING ACTIVITIES			СН	NCH	тн
Carrying out/resolving projects/challenges/cases, etc. to provide solutions to problem interdisciplinary contexts, real and/or simulated, individually and/or in teams			3 h.	1 h.	4 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	20%		(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	50%				
Prototype / Product Comments: Continuous assessment.	30%				

CH - Class hours: 3 h. NCH - Non-class hours: 1 h. TH - Total hours: 4 h.

RGI191 [!] Contribuir en la estrategia de funcionamiento del equipo priorizando los objetivos comunes, fomentando y valorando la participación de todas las personas y responsabilizándose de las tareas individuales, así como del cumplimiento de plazos

LEARNING ACTIVITIES			СН	NCH	ТН	
Carrying out/resolving projects/challenges/cases, etc. to provide solutions to prol interdisciplinary contexts, real and/or simulated, individually and/or in teams			2 h.	1 h.	3 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	20%		(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	50%					
Prototype / Product	30%					
Comments: Continuous assessment.						
CH - Class hours: 2 h. NCH - Non-class hours: 1 h. TH - Total hours: 3 h.						

RGI193 [!] Redacta una memoria de proyecto clara y concisa utilizando las fuentes de información y estructura de memoria facilitadas, y haciendo un uso correcto, inclusivo y no discriminatorio del lenguaje

LEARNING ACTIVITIES			СН	NCH	ТН
Development and writing of records, reports, presentation projects/work experience/challenges/case studies/experin individually and/or in teams	ns, audiovi mental invo	sual material, etc. on estigations carried out	3 h.	1 h.	4 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	20%		(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	50%				
Prototype / Product	30%				
Comments: Continuous assessment. It may be asked to	redo the				
document.					
CH - Class hours: 3 h. NCH - Non-class hours: 1 h. TH - Total hours: 4 h.					

 RGI194
 [!] Realiza una presentación oral y defensa del proyecto clara y concisa, haciendo uso correcto, inclusivo y no discriminatorio del lenguaje

 LEARNING ACTIVITIES
 CH
 NCH
 TH

Escuela Politécnica

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	20%	(No mechanisms)
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	50%	
Prototype / Product	30%	
Comments: Continuous assessment.		

CONTENTS

1. Oscillations and waves 1.1 Simple harmonic motion. 1.2 Oscillations. 1.3 Oscilla tory motion.1.4 Characteristics of waves1.5 Wave phenomena.2. ElectrostaticsElectric charge.2.2 Coulomb's Law.2.3 Electric Field.2.4 Electric poter 2.1 2.4 Electric potential 2.5 Electrostatic energy2.6 Capacitors3.DC circuits3.1 Electric currentesistance3.3 Joule effect3.4 Electromotive force3.5 Ohm's Law 3.2 R 3.6 Elect 3.7 Circuit analysis techniques: Kirchoff's laws, Thévenin's theorem, principle of sup rical power 4.3 Magnetic erposition.4. Electromagnetism 4.1 Magnetic fields 4.2 Field sources 4.4 Electromagnetic forces 4.6 Magnetic Materials flux 4.5 Forces on currents 4.7 Electromagnetic induction 4.8 Inductance 4.8 Inductance5. Alternating current circuits 5.1 Analysis of steady-state AC RLC circuits 5.2 Complex impedance 5.3 Phasors 5.4 Active, reactive and apparent power 5.5 Power factor

LEARNING RESOURCES AND BIBLIOGRAPHY

Learning resources

Bibliography https://labur.eus/biblio-GIB301

Subject notes Moodle Platform Specific Master Software Lab practical training