Universida_{de}Vigo

Subject Guide 2018 / 2019

IDENTIFYIN				
Electrotech	nology and rural electrification			
Subject	Electrotechnology			
	and rural			
	electrification			
Code	P03G370V01304			
Study	(*)Grao en			
programme	Enxeñaría Forestal			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	6	Mandatory	2nd	1st
Teaching	Spanish		<u> </u>	
language	Galician			
Department	Electrical Engineering			
Coordinator	Moldes Eiroa, Ángel			
Lecturers	Moldes Eiroa, Ángel			
E-mail	angelmoldes@uvigo.es	_	_	
Web				

Competencies

description

Code

C14 Ability to know, understand and use the principles of: electrical engineering and forest electrification.

componentes, el diseño y el cálculo de una instalación eléctrica.

Learning outcomes	
Expected results from this subject	Training and Learning
	Results
(*)	C14
Know and dominate the techniques of the oral expression and writing to improve the oral competitions and writings and, especially, to improve the editorial of academic texts.	

(*)Se estudiarán los principios de funcionamiento de la electricidad y los circuitos eléctricos, así como los

Contents	
Topic	
INTRODUCTION AND AXIOMS	
CIRCUITS OF CONTINUOUS CURRENT	
CIRCUITS OF ALTERNATES CURRENT	
TRIFÁSIC SYSTEMS BALANCED	
OPERATION OF THE NATIONAL ELECTRICAL	
SYSTEM	
ELEMENTS OF AN ELECTRICAL SYSTEM	
CALCULATION OF ELECTRICAL INSTALLATIONS	
FLECTRONIC REGULATION FOR LOW TENSION	

Planning			
	Class hours	Hours outside the classroom	Total hours
Lecturing	16	16	32
Problem solving	16	48	64
Laboratory practices	16	0	16
Computer practices	12	18	30
Problem solving	3	0	3
Short answer tests	1	0	1
Essay	4	0	4

^{*}The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

Methodologies	
	Description
Lecturing	EXHIBITION BY PART OF The PROFESSOR OF The THEORETICAL BASES OF The ASIGN#PUT
Problem solving	FORMULATION And RESOLUTION OF PROBLEMS RELACCIONED WITH The ASIGN#PUT
Laboratory practices	ACTIVITIES OF APPLICATION OF KNOWLEDGES IN SPACES WITH SPECIALIZED EQUIPMENT
Computer practices	ACTIVITIES OF APPLICATION OF KNOWLEDGES IN CLASSROOM OF COMPUTING

Personalized attention			
Methodologies	Description		
Lecturing			
Problem solving			
Computer practices			
Laboratory practices			

Assessment			
	Description	Qualification Tra	
			Learning
			Results
Laboratory	EVALUPLOUGHED BY MEANS OF IT DELIVERS OF A MEMORY WITH The	10	C14
practices	RESULTED NUMERICAL OBTENGONE IN The PRACTICAL		
Problem solving	EVALUPLOUGHED BY MEANS OF The FORMULATION OF PROBLEMS THAT The	40	C14
	STUDENT WILL OWE to ANSWER OF FORM WRITTEN		
Short answer	EVALUPLOUGHED BY MEANS OF The FORMULATION OF QUESTIONS THAT The	20	C14
tests	STUDENT WILL OWE to ANSWER OF FORM WRITTEN		
Essay	EVALUPLOUGHED The QUALITY OF ONE PROJECT OF ELECTRIC INSTALLATION	30	C14
	CALCULATED POLE STUDENT		

Other comments on the Evaluation

Sources of information

Basic Bibliography

Complementary Bibliography

PARRA, PEREZ, PASTOR, ORTEGA, TEORÍA DE CIRCUITOS, 2003,

GONZÁLEZ, GARRIDO, CIDRÁS, EJERCICIOS RESUELTOS DE CIRCUITOS ELÉCTRICOS, 1999,

SPITTA, INSTALACIONES ELÉCTRICAS, 1980,

MINISTERIO CIENCIA Y TECNOLOGÍA, R.D. 842/2002 REGLAMENTO ELECTROTÉCNICO PARA BAJA TENSIÓN, 2002, MINISTERIO CIENCIA Y TECNOLOGÍA, R.D.223/2008 REGLAMENTO DE LÍNEAS ELÉCTRICAS DE ALTA TENSIÓN, 2008, MINISTERIO CIENCIA Y TECNOLOGÍA, R.D.337/2014 REGLAMENTO SOBRE CONDICIONES TÉCNICAS Y GARANTÍAS DE SEGURIDAD EN INSTALACIONES ELÉCTRICAS DE ALTA TENSIÓN, 2014,

Recommendations

Subjects that it is recommended to have taken before

Physics: Physics I/P03G370V01102 Physics: Physics II/P03G370V01202

Mathematics: Overview of mathematics/P03G370V01203
Mathematics: Mathematics and IT/P03G370V01103