



IDENTIFYING DATA

Electrotechnology and rural electrification

Subject	Electrotechnology and rural electrification			
Code	P03G370V01304			
Study programme	(*)Grao en Enxeñaría Forestal			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	6	Mandatory	2nd	1st
Teaching language	Spanish Galician			
Department				
Coordinator	Moldes Eiroa, Ángel			
Lecturers	Moldes Eiroa, Ángel			
E-mail	angelmoldes@uvigo.es			
Web				
General description	(*)Se estudiarán los principios de funcionamiento de la electricidad y los circuitos eléctricos, así como los componentes, el diseño y el cálculo de una instalación eléctrica.			

Competencies

Code			
B28	CG-28: Coñecementos das seguintes materias necesarios tanto para a xestión dos sistemas forestais como para a súa conservación: electrificación.		
C14	(*)CE-14: Capacidade para coñecer, comprender e utilizar os principios de: electrotecnia e electrificación forestais.		

Learning outcomes

Expected results from this subject	Training and Learning Results	
(*)	B28	C14
(*) Coñecer o réxime de impugnación das actuacións administrativas		

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	
ELECTRONIC REGULATION FOR LOW TENSION	

Planning

	Class hours	Hours outside the classroom	Total hours
Master Session	16	16	32
Troubleshooting and / or exercises	16	48	64
Laboratory practises	16	0	16
Practice in computer rooms	12	18	30
Troubleshooting and / or exercises	3	0	3
Short answer tests	1	0	1
Jobs and projects	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
Master Session	EXHIBITION BY PART OF The PROFESSOR OF The THEORETICAL BASES OF The ASIGN#PUT
Troubleshooting and / or exercises	FORMULATION And RESOLUTION OF PROBLEMS RELACCIONED WITH The ASIGN#PUT
Laboratory practises	ACTIVITIES OF APPLICATION OF KNOWLEDGES IN SPACES WITH SPECIALIZED EQUIPMENT
Practice in computer rooms	ACTIVITIES OF APPLICATION OF KNOWLEDGES IN CLASSROOM OF COMPUTING

Personalized attention	
Methodologies	Description
Master Session	
Troubleshooting and / or exercises	
Practice in computer rooms	
Laboratory practises	

Assessment				
	Description	Qualification	Training and Learning Results	
Laboratory practises	EVALUATED BY MEANS OF IT DELIVERS OF A MEMORY WITH The RESULTED NUMERICAL OBTAINED IN The PRACTICAL	10	B28	C14
Troubleshooting and / or exercises	EVALUATED BY MEANS OF The FORMULATION OF PROBLEMS THAT The STUDENT WILL OWE to ANSWER OF FORM WRITTEN	40	B28	C14
Short answer tests	EVALUATED BY MEANS OF The FORMULATION OF QUESTIONS THAT The STUDENT WILL OWE to ANSWER OF FORM WRITTEN	20	B28	C14
Jobs and projects	EVALUATED The QUALITY OF ONE PROJECT OF ELECTRIC INSTALLATION CALCULATED POLE STUDENT	30	B28	C14

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