



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	Electrical Engineering			
Coordinator	Moldes Eiroa, Ángel			
Lecturers	Moldes Eiroa, Ángel			
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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

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

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.	

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
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 ASSIGN#PUT
Problem solving	FORMULATION And RESOLUTION OF PROBLEMS RELACIONED WITH The ASSIGN#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	Training and Learning Results
Laboratory practices	EVALUPOUGHED BY MEANS OF IT DELIVERS OF A MEMORY WITH The RESULTED NUMERICAL OBTENGONE IN The PRACTICAL	10	C14
Problem solving	EVALUPOUGHED BY MEANS OF The FORMULATION OF PROBLEMS THAT The STUDENT WILL OWE to ANSWER OF FORM WRITTEN	40	C14
Short answer tests	EVALUPOUGHED BY MEANS OF The FORMULATION OF QUESTIONS THAT The STUDENT WILL OWE to ANSWER OF FORM WRITTEN	20	C14
Essay	EVALUPOUGHED The QUALITY OF ONE PROJECT OF ELECTRIC INSTALLATION CALCULATED POLE STUDENT	30	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