SUBJECT TEACHING GUIDE

G715 - Machines and Electric Drives

Degree in Industrial Technologies Engineering

Academic year 2017-2018

1. IDENTIFYING DATA					
Degree	Degree in Industrial Technologies Engineering			Type and Year	Compulsory. Year 4
Faculty	School of Industrial Engineering and Telecommunications				
Discipline	Subject Area: Further Electricity Module: Selection of Specific Technologies				
Course unit title and code	G715 - Machines and Electric Drives				
Number of ECTS credits allocated	6	Term		Semester based (1)	
Web					
Language of instruction	Spanish	English Friendly	No	Mode of delivery	Face-to-face

Department	DPTO. INGENIERIA ELECTRICA Y ENERGETICA
Name of lecturer	LUIS FERNANDO MANTILLA PEÑALBA
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Other lecturers	JAVIER PACHECO ALEGRIA

3.1 LEARNING OUTCOMES

- To know the structural, constructive, functional, operative characteristics and of practical development of the transformers, the generators and the electrical engines of common use in the industry.
  To be able to select, apply and value the transformers and the most common rotary electric machines.

4. OBJECTIVES

To reach a level of sufficient and effective technological knowledge for the use of the transformers and the industrial rotary electric machines with operative efficiency and personal safety.

6. COURSE ORGANIZATION

	CONTENTS
1	Electrical transformers
2	Induction machines
3	Synchronous machines
4	Electric motors

7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessn	%
Lab test (four examinations)	Laboratory evaluation	Yes	No	10,00
Continuous assessment (two examinations)	Written exam	No	Yes	90,00
TOTAL				100,00

Observations

The final qualification of the pupil in every official call will be the sum of the note of Continuous assessment (or of its recovery tests) and of the note of the laboratory Practices.
For the pupils of successive registrations, the note of the laboratory Practices will maintain its validity two consecutive academic courses.

Observations for part-time students

8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC

Wildi, Theodore. "Máquinas Eléctricas y Sistemas de Potencia" Pearson. 2007
Fraile Mora, Jesús. "Máquinas Eléctricas" MacGraw Hill 2008
Sanz Feito, Javier. "Máquinas Eléctricas" Prentice Hall. 2002
Ortega, Guillermo; Gómez, Milagros y Bachiller, Alfonso. "Problemas resueltos de Máquinas Eléctricas" Thomson. 2002