



220307 - Radiofrequency and Communication Systems

Coordinating unit: 205 - ESEIAAT - Terrassa School of Industrial, Aerospace and Audiovisual Engineering
Teaching unit: 710 - EEL - Department of Electronic Engineering
Academic year: 2018
Degree: MASTER'S DEGREE IN AERONAUTICAL ENGINEERING (Syllabus 2014). (Teaching unit Compulsory)
ECTS credits: 5 Teaching languages: Catalan, Spanish

Teaching staff

Coordinator: Ignacio Gil

Learning objectives of the subject

Study load

Total learning time: 125h	Hours large group:	30h	24.00%
	Hours small group:	15h	12.00%
	Self study:	80h	64.00%

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Content

title english	Learning time: 15h Theory classes: 4h Laboratory classes: 2h Self study : 9h
Description: content english	
title english	Learning time: 43h Theory classes: 10h Laboratory classes: 5h Self study : 28h
Description: content english	
title english	Learning time: 43h Theory classes: 10h Laboratory classes: 5h Self study : 28h
Description: content english	
title english	Learning time: 24h Theory classes: 6h Laboratory classes: 3h Self study : 15h
Description: content english	

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Planning of activities

name english	Hours: 50h Theory classes: 20h Self study: 30h
name english	Hours: 35h Theory classes: 10h Self study: 25h
name english	Hours: 40h Laboratory classes: 15h Self study: 25h

Bibliography

Basic:

Martínez Rueda, J. Sistemas eléctricos y electrónicos de las aeronaves. Madrid: Thomson Paraninfo, cop. 2007. ISBN 8428329281.

Tooley, M.; Wyatt, D. Aircraft communications and navigation systems: principles, operation and maintenance. Amsterdam: Elsevier/Butterworth-Heinemann, 2007. ISBN 9780750681377.

Eismin, Thomas K. Aircraft electricity and electronics. 6th ed. New York: Mc Graw-Hill, 2014. ISBN 9780071799157.

Pozar, David M. Microwave engineering. 4th ed. Hoboken: John Wiley & Sons, 2012. ISBN 9780470631553.

Mendizabal, J.; Berenguer, R.; Meléndez, J. GPS and Galileo: dual RF front-end receiver design, fabrication, and test. Nova York: McGraw-Hill, 2009. ISBN 9780071598699.

Complementary:

Tomasi, W.; Mata Hernández, G. Sistemas de comunicaciones electrónicas. 4ª ed. México [etc.]: Pearson Educación, 2003. ISBN 9702603161.

Davies, Mark. The standard handbook for aeronautical and astronautical engineers. New York: McGraw-Hill, cop. 2003. ISBN 0071362290.

Skolnik, Merrill I. Introduction to radar systems. 3rd. ed. Boston (Mass.) [etc.]: McGraw-Hill, cop. 2001. ISBN 007118189X.