



220309 - Air Transport and Navigation Systems

Coordinating unit: 205 - ESEIAAT - Terrassa School of Industrial, Aerospace and Audiovisual Engineering
Teaching unit: 220 - ETSEIAT - Terrassa School of Industrial and Aeronautical Engineering
Academic year: 2018
Degree: MASTER'S DEGREE IN AERONAUTICAL ENGINEERING (Syllabus 2014). (Teaching unit Compulsory)
ECTS credits: 7,5 Teaching languages: Catalan, Spanish

Teaching staff

Coordinator: Oriol Lordan
Others: Antoni Barlabé

Learning objectives of the subject

Study load

Total learning time: 187h 30m	Hours large group:	45h	24.00%
	Hours small group:	22h 30m	12.00%
	Self study:	120h	64.00%

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Content

<p>title english</p>	<p>Learning time: 75h Theory classes: 27h Self study : 48h</p>
<p>Description: content english</p>	
<p>title english</p>	<p>Learning time: 33h 30m Theory classes: 5h 30m Laboratory classes: 6h 30m Self study : 21h 30m</p>
<p>Description: content english</p>	
<p>title english</p>	<p>Learning time: 33h 30m Theory classes: 5h 30m Laboratory classes: 6h 30m Self study : 21h 30m</p>
<p>Description: content english</p>	
<p>title english</p>	<p>Learning time: 45h 30m Theory classes: 9h 30m Laboratory classes: 7h Self study : 29h</p>
<p>Description: content english</p>	

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Bibliography

Basic:

Barnhart, C.; Smith, Barry C. Quantitative problem solving methods in the airline industry: a modeling methodology handbook. New York [etc.]: Springer, cop. 2012. ISBN 9781461416074.

Yu, Gang. Operations research in the airline industry. Springer, 1998. ISBN 9780792380399.

Helfrick, A. Principles of avionics. 9th ed. Leesburg, VA: Avionics Communications Inc, 2015. ISBN 9781885544353.

Complementary:

Pindado Carrión, S. Elementos de transporte aéreo. Madrid: Escuela Técnica Superior de Ingenieros Náuticos, DL 2006. ISBN 9788492111398.

Cardama Aznar, Á. [et al.]. Antenas [on line]. 2a ed. Barcelona: Edicions UPC, 2002 [Consultation: 05/07/2016]. Available on: <<http://hdl.handle.net/2099.3/36797>>. ISBN 8483016257.

Forssell, Börje. Radionavigation systems. Boston; London: Artech House, cop. 2008. ISBN 9781596933545.

Volakis, J. L.; Johnson, R. C.; Jasik, H. Antenna engineering handbook. 4th ed. New York [etc.]: McGraw-Hill, cop. 2007. ISBN 9780071475747.

Zogg, Jean-Marie. GPS essentials of satellite navigation compendium [on line]. U-blox, 2009 [Consultation: 19/10/2018]. Available on: <https://www.u-blox.com/sites/default/files/products/documents/GPS-Compendium_Book_%28GPS-X-02007%29.pdf>. ISBN 9783033021396.

Kaplan, E.D.; Hegarty, C.J. Understanding GPS/GNSS: principles and applications. 3rd ed. Boston: Artech House, 2017. ISBN 9781630810580.

Kayton, M.; Fried, W.R. Avionics navigation systems [on line]. 2nd ed. New York: John Wiley and Sons, 1997 [Consultation: 17/04/2018]. Available on: <<http://onlinelibrary.wiley.com/book/10.1002/9780470172704>>. ISBN 9780471547952.

Others resources: