

330406 - F2 - Physics II

Coordinating unit: 330 - EPSEM - Manresa School of Engineering
 Teaching unit: 750 - EMIT - Department of Mining, Industrial and ICT Engineering
 Academic year: 2019
 Degree: BACHELOR'S DEGREE IN MINING ENGINEERING (Syllabus 2016). (Teaching unit Compulsory)
 ECTS credits: 4,5 Teaching languages: Catalan

Teaching staff

Coordinator: Ciriano Nogales, Yolanda
 Others: Conangla Triviño, Laura
 Lladó Valero, Jordi
 Vallbe Mumbriu, Marc
 Vilanova Arnau, David
 Rota Font, Francesc

Degree competences to which the subject contributes

Specific:

- (ENG) Comprensió i domini dels conceptes fonamentals sobre les lleis generals dels camps elèctrics i magnètics, i la seva aplicació per a la resolució de problemes propis de l'enginyeria.

Transversal:

- EFFICIENT ORAL AND WRITTEN COMMUNICATION - Level 1. Planning oral communication, answering questions properly and writing straightforward texts that are spelt correctly and are grammatically coherent.

Learning objectives of the subject

Study load

Total learning time: 112h 30m	Hours large group:	0h	0.00%
	Hours medium group:	45h	40.00%
	Hours small group:	0h	0.00%
	Guided activities:	0h	0.00%
	Self study:	67h 30m	60.00%

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Content

<p>title english</p>	<p>Learning time: 60h Theory classes: 12h Laboratory classes: 12h Self study : 36h</p>
<p>Description: content english</p>	
<p>title english</p>	<p>Learning time: 52h 30m Theory classes: 10h 30m Laboratory classes: 10h 30m Self study : 31h 30m</p>
<p>Description: content english</p>	

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Planning of activities

name english	Hours: 9h Laboratory classes: 3h Self study: 6h
name english	Hours: 4h 30m Laboratory classes: 1h 30m Self study: 3h
name english	Hours: 6h 30m Theory classes: 1h 30m Self study: 5h
name english	Hours: 6h 30m Theory classes: 1h 30m Self study: 5h
name english	Hours: 13h Laboratory classes: 3h Self study: 10h
name english	Hours: 13h Theory classes: 3h Self study: 10h

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Bibliography

Basic:

Bauer, W.; Westfall, G. D. Física para ingeniería y ciencias. 2ª ed. México: McGraw-Hill/Interamericana, 2014. ISBN 9786071511911 (V.1), 9786071511928 (V.2).

Young, H. D.; Freedman, R. A. Física universitaria. 13ª ed. México: Pearson Educación, 2013. ISBN 9786073221245 (V.1), 9786073221900 (V. 2).

Serway, R. A.; Jewett, J. W. Física: para ciencias e ingeniería. 7ª ed. México: Cengage Learning, 2008. ISBN 9789706868220 (V.1), 9789706868374 (V. 2).

Tipler, Paul Allen; Mosca, Gene. Física per a la ciència i la tecnologia [on line]. Barcelona: Reverté, 2010 [Consultation: 18/06/2019]. Available on: <https://discovery.upc.edu/iii/encore/record/C__Rb1510154?lang=cat>. ISBN 9788429144314.

Walker, James S. Physics. 5th ed. Upper Saddle River: Pearson Prentice, 2016. ISBN 9780321976444.

Complementary:

Abad Toribio, Laura; Iglesias Gómez, Laura Mª. Problemas resueltos de física general. 2ª ed. Madrid: Bellisco, 2006. ISBN 8496486273.

Alcaraz i Sendra, Olga; López López, José; López Solanas, V. Física: problemas y ejercicios resueltos. Madrid: Pearson Educación, 2006. ISBN 8420544477.

Valiente Cancho, Andrés. Física para ingenieros: 176 problemas útiles. Madrid: García-Maroto, 2012. ISBN 9788415475194.

Ferreres, E.; Mercadé, J.; Conangla, L. Pràctiques de física: graus EPSEM. Manresa: EPSEM, 2018.

Others resources: