

## 205251 - SMDI - Material Selection in Industrial Design

Coordinating unit: 205 - ESEIAAT - Terrassa School of Industrial, Aerospace and Audiovisual Engineering  
Teaching unit: 702 - CMEM - Department of Materials Science and Metallurgy  
Academic year: 2019  
Degree: BACHELOR'S DEGREE IN INDUSTRIAL DESIGN AND PRODUCT DEVELOPMENT ENGINEERING  
(Syllabus 2010). (Teaching unit Optional)  
ECTS credits: 6 Teaching languages: Spanish

### Teaching staff

Coordinator: José Ignacio Velasco

### Learning objectives of the subject

### Study load

Total learning time: 150h	Hours large group:	30h	20.00%
	Hours medium group:	0h	0.00%
	Hours small group:	30h	20.00%
	Guided activities:	0h	0.00%
	Self study:	90h	60.00%

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### Content

title english	Learning time: 6h Theory classes: 2h Laboratory classes: 2h Self study : 2h
Description: content english	
title english	Learning time: 40h Laboratory classes: 24h Self study : 16h
Description: content english	
title english	Learning time: 10h Laboratory classes: 4h Self study : 6h
Description: content english	
title english	Learning time: 10h Laboratory classes: 4h Self study : 6h
Description: content english	
title english	Learning time: 10h Theory classes: 4h Self study : 6h
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title english	Learning time: 10h Theory classes: 4h Self study : 6h
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Description: content english	
title english	Learning time: 10h Theory classes: 4h Self study : 6h
Description: content english	
title english	Learning time: 44h Theory classes: 4h Laboratory classes: 4h Self study : 36h
Description: content english	

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### Planning of activities

name english	Hours: 52h Theory classes: 20h Self study: 32h
name english	Hours: 12h Self study: 6h Theory classes: 6h
name english	Hours: 2h Laboratory classes: 2h
name english	Hours: 40h Self study: 16h Laboratory classes: 24h
name english	Hours: 44h Laboratory classes: 4h Theory classes: 4h Self study: 36h

### Bibliography

#### Basic:

Ashby, M.F.; Johnson, Kara. Materials and design: the art and science of material selection in product design [on line]. 2nd ed. Amsterdam [etc.]: Butterworth Heinemann, 2010 [Consultation: 21/07/2017]. Available on: <<http://www.sciencedirect.com/science/book/9781856174978>>. ISBN 9781856174978.

#### Complementary:

Ashby, M. F. Materials selection in mechanical design [on line]. 4th ed. Burlington (Massachusetts): Butterworth-Heinemann, 2011 [Consultation: 21/07/2017]. Available on: <<http://www.sciencedirect.com/science/book/9781856176637>>. ISBN 9781856176637.

#### Others resources: