

205209 - MIEU - Smart Materials and User Experience

Coordinating unit: 205 - ESEIAAT - Terrassa School of Industrial, Aerospace and Audiovisual Engineering
 Teaching unit: 717 - EGE - Department of Engineering Presentation
 Academic year: 2019
 Degree: BACHELOR'S DEGREE IN INDUSTRIAL DESIGN AND PRODUCT DEVELOPMENT ENGINEERING (Syllabus 2010). (Teaching unit Optional)
 ECTS credits: 3 Teaching languages: Catalan

Teaching staff

Coordinator: Bernat Faura López de Haro
 Others: Jordi Voltas Aguilar

Learning objectives of the subject

Veure contingut català

Study load

Total learning time: 75h	Hours large group:	30h	40.00%
	Hours medium group:	0h	0.00%
	Hours small group:	0h	0.00%
	Guided activities:	0h	0.00%
	Self study:	45h	60.00%

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Content

<p>TOPIC 01: SMART MATERIALS</p>	<p>Learning time: 30h Theory classes: 12h Self study : 18h</p>
<p>Description: Veure contingut en català</p> <p>Related activities: Veure contingut en català</p> <p>Specific objectives: Veure contingut en català</p>	
<p>TOPIC 02: LEARNING BY DOING</p>	<p>Learning time: 15h Theory classes: 6h Self study : 9h</p>
<p>Description: Veure contingut en català</p> <p>Related activities: Veure contingut en català</p> <p>Specific objectives: Veure contingut en català</p>	
<p>TOPIC 03: UX (user Experience)</p>	<p>Learning time: 15h Theory classes: 6h Self study : 9h</p>
<p>Description: Veure contingut en català</p> <p>Related activities: Veure contingut en català</p> <p>Specific objectives: Veure contingut en català</p>	

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TOPIC 04: EMOTIONAL PROTOTYPING	Learning time: 15h Theory classes: 6h Self study : 9h
Description: Veure contingut en català	
Related activities: Veure contingut en català	
Specific objectives: Veure contingut en català	

Bibliography

Basic:

Lefteri, Chis. Así se hace: técnicas de fabricación para diseño de producto. Barcelona: Blume, 2006. ISBN 9788498012583.

Peña, Javier. Selección de materiales en el proceso de diseño: manual técnico sobre la naturaleza de la materia, plásticos, metales, cerámicas, compuestos, materiales adaptativos, fibra óptica y materiales para rapid manufacturing. 2ª ed. Barcelona: Ediciones CPG, 2016. ISBN 9788493132989.

Complementary:

Howes, P.; Laughlin, Z. Material matters: new materials in design. London: Black Dog Publishing, 2012. ISBN 9781907317736.

Peters, Sascha. Material revolution: sustainable multi-purpose materials for design and architecture. Basel: Birkhäuser, 2011. ISBN 9783034606639.

Kula, Daniel; Ternaux, Élodie. Materiology: the creatives guide to materials and technologies. Rev. ed. Basel: Birkhäuser, 2014. ISBN 9783038212546.

Others resources: