340081 - DIPR-D6017 - Product Design

Coordinating unit: 340 - EPSEVG - Vilanova i la Geltrú School of Engineering
Teaching unit: 717 - EGE - Department of Engineering Presentation
Academic year: 2017
Degree: BACHELOR'S DEGREE IN INDUSTRIAL DESIGN AND PRODUCT DEVELOPMENT ENGINEERING (Syllabus 2009). (Teaching unit Compulsory)
BACHELOR'S DEGREE IN ELECTRICAL ENGINEERING (Syllabus 2009). (Teaching unit Optional)
BACHELOR'S DEGREE IN ELECTRONIC SYSTEMS ENGINEERING (Syllabus 2010). (Teaching unit Optional)
ECTS credits: 6
Teaching languages: Catalan, Spanish

Teaching staff
Coordinator: Manuel López Membrilla.
Others: Ruben de Castro Losada
Manuel López Membrilla

Degree competences to which the subject contributes

Specific:
1. D20. Ability to design and to project in different communication surroundings in a effective and efficient way with different agents interacting in industrial design and development process.
2. D21. Ability purchasing power to take decisions related to graphic representation of concepts.
3. D22. Ability to apply methods, techniques and specific instruments for each way of technical representation.
5. D29. Knowledge of editing and technical documents representation.
6. D32. Ability to carry out product projects, machines, mechanism and installations.
7. D38. Ability to identify the language of forms, its values and relation with cultural surroundings.
9. D40. Ability to know and interpret the necessity of the market and user.
10. D41. Control of tools related to design processes.
11. D44. Knowledge of ANTROPROMETRIA.
13. D46. Ability to design packages and packaging.
15. D61. Practical knowledge of product detail design.
Transversal:
17. SELF-DIRECTED LEARNING - Level 3. Applying the knowledge gained in completing a task according to its relevance and importance. Deciding how to carry out a task, the amount of time to be devoted to it and the most suitable information sources.
18. EFFICIENT ORAL AND WRITTEN COMMUNICATION - Level 3. Communicating clearly and efficiently in oral and written presentations. Adapting to audiences and communication aims by using suitable strategies and means.
19. EFFICIENT ORAL AND WRITTEN COMMUNICATION. Communicating verbally and in writing about learning outcomes, thought-building and decision-making. Taking part in debates about issues related to the own field of specialization.
20. TEAMWORK - Level 3. Managing and making work groups effective. Resolving possible conflicts, valuing working with others, assessing the effectiveness of a team and presenting the final results.
21. EFFECTIVE USE OF INFORMATION RESOURCES - Level 3. Planning and using the information necessary for an academic assignment (a final thesis, for example) based on a critical appraisal of the information resources used.
22. EFFECTIVE USE OF INFORMATION RESOURCES. Managing the acquisition, structure, analysis and display of information from the own field of specialization. Taking a critical stance with regard to the results obtained.

Learning objectives of the subject

Study load

<table>
<thead>
<tr>
<th>Total learning time: 150h</th>
<th>Hours large group:</th>
<th>45h</th>
<th>30.00%</th>
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<tbody>
<tr>
<td></td>
<td>Hours medium group:</td>
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<tr>
<td></td>
<td>Hours small group:</td>
<td>15h</td>
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<td></td>
<td>Guided activities:</td>
<td>0h</td>
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<tr>
<td></td>
<td>Self study:</td>
<td>90h</td>
<td>60.00%</td>
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<tr>
<td><strong>Content</strong></td>
<td><strong>Learning time:</strong> 5h</td>
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<tr>
<td><strong>(ENG) -1. Antropometria. Usabilitat i Producte.</strong></td>
<td>Theory classes: 5h</td>
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<tr>
<td><strong>(ENG) -2. Disseny d'interfícies.</strong></td>
<td>Theory classes: 5h</td>
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<tr>
<td><strong>(ENG) -3. Avaluació ergonòmica. Biomecànica.</strong></td>
<td>Theory classes: 5h</td>
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<td><strong>(ENG) -4. Ergonomia de necessitats específiques.</strong></td>
<td>Theory classes: 5h</td>
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<td><strong>(ENG) -5. Disseny d'envàs i embalatge.</strong></td>
<td>Theory classes: 5h</td>
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<tr>
<td><strong>(ENG) -6. Activitats de treball pràctic.</strong></td>
<td>Practical classes: 25h</td>
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<td><strong>(ENG) -7. Practiques de Laboratori</strong></td>
<td>Laboratory classes: 10h</td>
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<td><strong>(ENG) -8. Activitat no presencial</strong></td>
<td>Self study: 90h</td>
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### Planning of activities

| (ENG) T1-ANTROPOMETRIA. USABILITAT I PRODUCTE | Hours: 4h  
Practical classes: 4h |
| (ENG) T2- DISEÑO DE INTERFÍCIES | Hours: 3h  
Practical classes: 3h |
| (ENG) T3- AVALUACIÓ ERGONÒMICA. BIOMECCÀNICA | Hours: 3h  
Practical classes: 3h |
| (ENG) T4- DISEÑO DE ENVASES I EMBALATGES | Hours: 2h  
Practical classes: 2h |
| (ENG) P5- ESTETICA DEL PRODUCTE. | Hours: 3h  
Practical classes: 3h |
| (ENG) P6- ECOPRODUCTE I MEDIAMBIENT | Hours: 3h  
Practical classes: 3h |
| (ENG) P7- TECNOLOGIA | Hours: 2h  
Practical classes: 2h |
| (ENG) P8- PROyecte | Hours: 5h  
Practical classes: 5h |
Bibliography

Basic:


Complementary: