ANX-PR/CL/001-01
LEARNING GUIDE

SUBJECT
103000872 - Evaluation Of Interactive Systems

DEGREE PROGRAMME
10AZ - Master Universitario en Innovación Digital

ACADEMIC YEAR & SEMESTER
2020/21 - Semester 2
Index

Learning guide

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1. Description

1.1. Subject details

<table>
<thead>
<tr>
<th>Name of the subject</th>
<th>103000872 - Evaluation Of Interactive Systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>No of credits</td>
<td>3 ECTS</td>
</tr>
<tr>
<td>Type</td>
<td>Optional</td>
</tr>
<tr>
<td>Academic year of the programme</td>
<td>First year</td>
</tr>
<tr>
<td>Semester of tuition</td>
<td>Semester 2</td>
</tr>
<tr>
<td>Tuition period</td>
<td>February-June</td>
</tr>
<tr>
<td>Tuition languages</td>
<td>English</td>
</tr>
<tr>
<td>Degree programme</td>
<td>10AZ - Master Universitario en Innovación Digital</td>
</tr>
<tr>
<td>Centre</td>
<td>10 - Escuela Tecnica Superior de Ingenieros Informaticos</td>
</tr>
<tr>
<td>Academic year</td>
<td>2020-21</td>
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</table>

2. Faculty

2.1. Faculty members with subject teaching role

<table>
<thead>
<tr>
<th>Name and surname</th>
<th>Office/Room</th>
<th>Email</th>
<th>Tutoring hours *</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cristian Moral Martos</td>
<td>5110</td>
<td><a href="mailto:cristian.moral@upm.es">cristian.moral@upm.es</a></td>
<td>M - 10:00 - 12:00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>M - 14:00 - 15:00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>W - 12:00 - 15:00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Please, ask for an appointment by email.</td>
</tr>
<tr>
<td>Elena Villalba Mora (Subject coordinator)</td>
<td>5110</td>
<td><a href="mailto:elena.villalba@upm.es">elena.villalba@upm.es</a></td>
<td>M - 10:00 - 12:00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>W - 10:00 - 12:00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>F - 12:00 - 14:00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Please, ask for an appointment by</td>
</tr>
</tbody>
</table>
3. Prior knowledge recommended to take the subject

3.1. Recommended (passed) subjects

- Introduction To Human-computer Interaction
- Design Methods For Human-computer Interaction

3.2. Other recommended learning outcomes

The subject - other recommended learning outcomes, are not defined.

4. Skills and learning outcomes *

4.1. Skills to be learned

CB07 - Que los estudiantes sepan aplicar los conocimientos adquiridos y su capacidad de resolución de problemas en entornos nuevos o poco conocidos dentro de contextos más amplios (o multidisciplinares) relacionados con su área de estudio

CE-DIPO02 - Capacidad para evaluar la interacción persona-ordenador de productos y servicios de alto valor innovador
4.2. Learning outcomes

RA41 - Plan and perform evaluation of prototypes with different fidelity levels

RA42 - Understand and carry experiments to evaluate interactive systems

RA40 - Evaluate the usability of prototypes

* The Learning Guides should reflect the Skills and Learning Outcomes in the same way as indicated in the Degree Verification Memory. For this reason, they have not been translated into English and appear in Spanish.

5. Brief description of the subject and syllabus

5.1. Brief description of the subject

This course teaches methods to perform usability evaluation, experimental design and to statistically analyse the results. Different evaluation methods will be introduced for different tasks, user groups, and performed in a lab environment as well as in field.

5.2. Syllabus

1. Introduction to evaluation of interactive systems
2. Inspection methods
3. Interrogation techniques
4. Usability test
5. Experimental design. Introduction to empirical research
6. Statistical analysis
6. Schedule

6.1. Subject schedule*

<table>
<thead>
<tr>
<th>Week</th>
<th>Face-to-face classroom activities</th>
<th>Face-to-face laboratory activities</th>
<th>Distant / On-line</th>
<th>Assessment activities</th>
</tr>
</thead>
</table>
| 1    | 1. Introduction  
Duration: 02:00  
2.1 Inspection methods. 2.2 Heuristics evaluation  
Duration: 02:00 | 1. Introduction  
Duration: 02:00  
2.1 Inspection methods. 2.2 Heuristics evaluation  
Duration: 02:00 | | |
| 2    | 2.2 Understanding Heuristics  
Duration: 02:00 | 2.2 Understanding Heuristics  
Duration: 02:00 | Presentation of inspection evaluation  
Continuous assessment  
Presential  
Duration: 02:00 | |
| 3    | 3. Interrogation techniques  
Duration: 02:00  
4.1 Usability tests  
Duration: 02:00 | 3. Interrogation techniques  
Duration: 02:00  
4.1 Usability tests  
Duration: 02:00 | | |
| 4    | 4.2 Planning, analysing and reporting a usability test  
Duration: 02:00 | 4.2 Planning, analysing and reporting a usability test  
Duration: 02:00 | Assessment of usability test  
Continuous assessment  
Presential  
Duration: 02:00 | |
| 5    | | | | |
| 6    | 5. Experimental design. Introduction to empirical research  
Duration: 02:00 | 5. Experimental design. Introduction to empirical research  
Duration: 02:00 | | |
| 7    | 6 Statistical analysis  
Duration: 02:00 | 6 Statistical analysis  
Duration: 02:00 | | |
| 8    | 6 Statistical analysis  
Duration: 02:00 | 6 Statistical analysis  
Duration: 02:00 | | |
| 9    | | | | |

*GA_10AZ_103000872  
2S_2020-21  
Evaluation Of Interactive Systems  
Master Universitario en Innovación Digital*
Depending on the programme study plan, total values will be calculated according to the ECTS credit unit as 26/27 hours of student face-to-face contact and independent study time.

* The schedule is based on an a priori planning of the subject; it might be modified during the academic year, especially considering the COVID19 evolution.
### 7. Activities and assessment criteria

#### 7.1. Assessment activities

##### 7.1.1. Continuous assessment

<table>
<thead>
<tr>
<th>Week</th>
<th>Description</th>
<th>Modality</th>
<th>Type</th>
<th>Duration</th>
<th>Weight</th>
<th>Minimum grade</th>
<th>Evaluated skills</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Presentation of inspection evaluation</td>
<td>Face-to-face</td>
<td>02:00</td>
<td>20%</td>
<td>/ 10</td>
<td>CE-DIPO02</td>
<td>CB07</td>
</tr>
<tr>
<td>5</td>
<td>Assessment of usability test</td>
<td>Face-to-face</td>
<td>02:00</td>
<td>30%</td>
<td>/ 10</td>
<td>CE-DIPO02</td>
<td>CB07</td>
</tr>
<tr>
<td>9</td>
<td>Assessment experimental design and analysis</td>
<td>Face-to-face</td>
<td>02:00</td>
<td>50%</td>
<td>/ 10</td>
<td>CE-DIPO02</td>
<td></td>
</tr>
</tbody>
</table>

##### 7.1.2. Final examination

<table>
<thead>
<tr>
<th>Week</th>
<th>Description</th>
<th>Modality</th>
<th>Type</th>
<th>Duration</th>
<th>Weight</th>
<th>Minimum grade</th>
<th>Evaluated skills</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>Final written exam</td>
<td>Face-to-face</td>
<td>03:00</td>
<td>100%</td>
<td>5 / 10</td>
<td>CE-DIPO02</td>
<td>CB07</td>
</tr>
</tbody>
</table>

##### 7.1.3. Referred (re-sit) examination

<table>
<thead>
<tr>
<th>Description</th>
<th>Modality</th>
<th>Type</th>
<th>Duration</th>
<th>Weight</th>
<th>Minimum grade</th>
<th>Evaluated skills</th>
</tr>
</thead>
<tbody>
<tr>
<td>Final written exam</td>
<td>Face-to-face</td>
<td>03:00</td>
<td>100%</td>
<td>5 / 10</td>
<td>CE-DIPO02</td>
<td>CB07</td>
</tr>
</tbody>
</table>
7.2. Assessment criteria

In the evaluation activities, the following criteria is taken into account: 1) Quality of the oral communication skills; 2) Ability to debate; and 3) Ability to understand concepts.

In this second semester of the academic year 2020-21, academic activities are scheduled to be face to face, unless due to the COVID-19 situation we needed to change into online. In that scenario, face to face evaluation activities will be performed online through videoconferences.

8. Teaching resources

8.1. Teaching resources for the subject

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moodle</td>
<td>Web resource</td>
<td><a href="https://moodle.upm.es/titulaciones/oficiales">https://moodle.upm.es/titulaciones/oficiales</a></td>
</tr>
</tbody>
</table>

9. Other information

9.1. Other information about the subject

Note: please bear in mind tutoring hours may change along the course. Please, ask for an appointment in advance.

In this second semester of the academic year 2020-21, academic activities are scheduled to be face to face, unless due to the COVID-19 situation we needed to change into online. In that scenario, face to face evaluation activities will be performed online through videoconferences.