



POLITÉCNICA

INTERNATIONAL
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COORDINATION PROCESS OF
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PR/CL/001



E.T.S. de Ingenieros
Informáticos

ANX-PR/CL/001-01

LEARNING GUIDE

SUBJECT

103000874 - User Experience And Mobile Interaction

DEGREE PROGRAMME

10AZ - Master Universitario en Innovación Digital

ACADEMIC YEAR & SEMESTER

2019/20 - Semester 1

Index

Learning guide

1. Description.....	1
2. Faculty.....	1
3. Skills and learning outcomes	2
4. Brief description of the subject and syllabus.....	3
5. Schedule.....	4
6. Activities and assessment criteria.....	7
7. Teaching resources.....	9
8. Other information.....	10

1. Description

1.1. Subject details

Name of the subject	103000874 - User Experience And Mobile Interaction
No of credits	6 ECTS
Type	Optional
Academic year of the programme	First year
Semester of tuition	Semester 1
Tuition period	September-January
Tuition languages	English
Degree programme	10AZ - Master Universitario en Innovación Digital
Centre	10 - Escuela Tecnica Superior de Ingenieros Informaticos
Academic year	2019-20

2. Faculty

2.1. Faculty members with subject teaching role

Name and surname	Office/Room	Email	Tutoring hours *
Ricardo Imbert Paredes (Subject coordinator)	D-5112	ricardo.imbert@upm.es	Tu - 15:00 - 18:00 W - 15:00 - 18:00 It is advisable to confirm by email the availability of the professor
Xavier Ferre Grau	D-5112	xavier.ferre@upm.es	Tu - 10:00 - 14:00 W - 10:00 - 12:00 It is advisable to confirm by email the availability of the

			professor
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* The tutoring schedule is indicative and subject to possible changes. Please check tutoring times with the faculty member in charge.

3. Skills and learning outcomes *

3.1. Skills to be learned

CE-DIPO01 - Capacidad para conceptualizar, diseñar y desarrollar la interacción persona-ordenador de productos y servicios innovadores

CE-DIPO03 - Habilidad para hacer conexiones entre los deseos y necesidades del consumidor o cliente y lo que la tecnología puede ofrecer

3.2. Learning outcomes

RA29 - Understand the particularities of the user experience beyond usability, considering emotions

RA30 - Understand the particularities of user-centered design in mobile platforms and ubiquitous computing

RA28 - Apply techniques and processes for prototyping, development and refinement of interactive digital systems in different technological platforms

* 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.

4. Brief description of the subject and syllabus

4.1. Brief description of the subject

This course will be focused on designing mobile interactions with good user experience (UX). Contents of the course include: UX as a broadening of the scope of usability, design concepts, global user interfaces, designing for mobile experiences, interaction design patterns for mobile applications, mobile wireframes and prototypes and platform-specific design guidelines.

4.2. Syllabus

1. Introduction to UX and mobile interaction
2. Context and specific needs related solution
3. Design of memorable experiences
4. UX & UI: Visual principles
5. Evaluation of the UX
6. Mobile prototyping
7. Design guidelines
8. UX within the organization

5. Schedule

5.1. Subject schedule*

Week	Face-to-face classroom activities	Face-to-face laboratory activities	Other face-to-face activities	Assessment activities
1	1. Introduction to UX&MI Duration: 03:00			
2	2. Context and specific needs related solution Duration: 01:00			Presentation of the design observation exercise Continuous assessment Duration: 01:00 Assignment about design observation Final examination Duration: 01:00 Affinity diagraming (needs) Continuous assessment and final examination Duration: 01:00
3	2. Context and specific needs related solution Duration: 01:00			Value proposition canvas exercise Continuous assessment and final examination Duration: 02:00
4	2. Context and specific needs related solution Duration: 00:30			Use context survey and interviews Continuous assessment and final examination Duration: 02:30
5	3. Design of memorable experiences Duration: 00:30 3. Design of memorable experiences Duration: 02:00			User journey map exercise Continuous assessment and final examination Duration: 00:30
6	4. UX&UI: Visual principles Duration: 01:00 4. UX&UI: Visual principles Duration: 01:00			Contrast exercise Continuous assessment and final examination Duration: 01:00 Assignment about color observation Continuous assessment and final examination Duration: 00:00 Assignment about typefaces

				Continuous assessment and final examination Duration: 00:00
7	<p>4. UX&UI: Visual principles Duration: 00:15</p> <p>4. UX&UI: Visual principles Duration: 01:30</p> <p>8. UX within the organization Duration: 00:15</p>			<p>Mood board exercise</p> <p>Continuous assessment and final examination Duration: 00:00</p> <p>Affinity diagraming (roles)</p> <p>Continuous assessment and final examination Duration: 01:00</p>
8	<p>8. UX within the organization Duration: 03:00</p>			
9	<p>8. UX within the organization Duration: 03:00</p>			
10	<p>8. UX within the organization Duration: 03:00</p>			<p>Assignment about design sprint</p> <p>Continuous assessment and final examination Duration: 00:00</p>
11	<p>5. UX evaluation Duration: 00:45</p>			<p>Assignment about 5 seconds test</p> <p>Continuous assessment and final examination Duration: 02:15</p>
12	<p>5. UX evaluation Duration: 00:30</p> <p>5. UX evaluation Duration: 02:30</p>			<p>Assignment about UEQ</p> <p>Continuous assessment and final examination Duration: 00:00</p>
13	<p>6. Mobile prototyping Duration: 03:00</p>			
14	<p>7. Design guidelines Duration: 00:15</p> <p>7. Design guidelines Duration: 00:15</p>			<p>Debate exercise (guidelines 1)</p> <p>Continuous assessment Duration: 01:15</p> <p>Debate exercise (guidelines 2)</p> <p>Continuous assessment Duration: 01:15</p> <p>Assignment about mobile design guidelines</p> <p>Final examination Duration: 00:00</p>

15	6. Mobile prototyping Duration: 03:00			Prototype evaluation Continuous assessment and final examination Duration: 01:00
16				
17				Presentation of the prototypes Continuous assessment and final examination Duration: 03:00 Proposed class debates and student implication and participation Continuous assessment Duration: 00:00

The independent study hours are training activities during which students should spend time on individual study or individual assignments.

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 subject schedule is based on a previous theoretical planning of the subject plan and might go through experience some unexpected changes along throughout the academic year.

6. Activities and assessment criteria

6.1. Assessment activities

6.1.1. Continuous assessment

Week	Description	Modality	Type	Duration	Weight	Minimum grade	Evaluated skills
2	Presentation of the design observation exercise		Face-to-face	01:00	5.2%	0 / 10	CE-DIPO03
2	Affinity diagraming (needs)		Face-to-face	01:00	5.2%	0 / 10	CE-DIPO03
3	Value proposition canvas exercise		Face-to-face	02:00	5.2%	0 / 10	CE-DIPO03
4	Use context survey and interviews		Face-to-face	02:30	5.2%	0 / 10	CE-DIPO03
5	User journey map exercise		Face-to-face	00:30	5.2%	0 / 10	CE-DIPO01 CE-DIPO03
6	Contrast exercise		Face-to-face	01:00	5.2%	0 / 10	CE-DIPO01
6	Assignment about color observation		No Presential	00:00	5.2%	0 / 10	CE-DIPO01
6	Assignment about typefaces		No Presential	00:00	5.2%	0 / 10	CE-DIPO01
7	Mood board exercise		Face-to-face	00:00	5.2%	0 / 10	CE-DIPO01 CE-DIPO03
7	Affinity diagraming (roles)		Face-to-face	01:00	5.2%	0 / 10	CE-DIPO03
10	Assignment about design sprint		Face-to-face	00:00	15.6%	0 / 10	CE-DIPO01 CE-DIPO03
11	Assignment about 5 seconds test		Face-to-face	02:15	5.2%	0 / 10	CE-DIPO01
12	Assignment about UEQ		Face-to-face	00:00	5.2%	0 / 10	CE-DIPO01
14	Debate exercise (guidelines 1)		Face-to-face	01:15	%	0 / 10	CE-DIPO01
14	Debate exercise (guidelines 2)		Face-to-face	01:15	%	0 / 10	CE-DIPO01
15	Prototype evaluation		Face-to-face	01:00	5.2%	0 / 10	CE-DIPO01
17	Presentation of the prototypes		Face-to-face	03:00	10.4%	0 / 10	CE-DIPO01
17	Proposed class debates and student implication and participation		Face-to-face	00:00	6.4%	0 / 10	CE-DIPO01

6.1.2. Final examination

Week	Description	Modality	Type	Duration	Weight	Minimum grade	Evaluated skills
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2	Assignment about design observation		No Presential	01:00	5.2%	0 / 10	CE-DIPO03
2	Affinity diagraming (needs)		Face-to-face	01:00	5.2%	0 / 10	CE-DIPO03
3	Value proposition canvas exercise		Face-to-face	02:00	5.2%	0 / 10	CE-DIPO03
4	Use context survey and interviews		Face-to-face	02:30	5.2%	0 / 10	CE-DIPO03
5	User journey map exercise		Face-to-face	00:30	5.2%	0 / 10	CE-DIPO01 CE-DIPO03
6	Contrast exercise		Face-to-face	01:00	5.2%	0 / 10	CE-DIPO01
6	Assignment about color observation		No Presential	00:00	5.2%	0 / 10	CE-DIPO01
6	Assignment about typefaces		No Presential	00:00	5.2%	0 / 10	CE-DIPO01
7	Mood board exercise		Face-to-face	00:00	5.2%	0 / 10	CE-DIPO01 CE-DIPO03
7	Affinity diagraming (roles)		Face-to-face	01:00	5.2%	0 / 10	CE-DIPO03
10	Assignment about design sprint		Face-to-face	00:00	15.6%	0 / 10	CE-DIPO01 CE-DIPO03
11	Assignment about 5 seconds test		Face-to-face	02:15	5.2%	0 / 10	CE-DIPO01
12	Assignment about UEQ		Face-to-face	00:00	5.2%	0 / 10	CE-DIPO01
14	Assignment about mobile design guidelines		No Presential	00:00	6.4%	0 / 10	CE-DIPO01
15	Prototype evaluation		Face-to-face	01:00	5.2%	0 / 10	CE-DIPO01
17	Presentation of the prototypes		Face-to-face	03:00	10.4%	0 / 10	CE-DIPO01

6.1.3. Referred (re-sit) examination

Description	Modality	Type	Duration	Weight	Minimum grade	Evaluated skills
Activities of UX&MI		Face-to-face	00:00	100%	5 / 10	CE-DIPO01 CE-DIPO03

6.2. Assessment criteria

The subject is graded following a continuous assessment.

The student passes the subject only if 5 or more points on 10 are obtained at the end of the course, regarding the following criteria:

FINAL GRADE = 15,6% Individual assignments + 78% Group assignments + 6,4% Debate activities and student participation

The final grade will be obtained from three components: (1) individual exercises performed and/or presented in the classroom; (2) group exercises performed and/or presented in the classroom; and (3) debate activities and participation and implication of the student in the subject.

If a student is not required to participate in a debate, their grade of the "Debate activities and student participation" will correspond completely to their participation and implication in the classroom. Otherwise, their grade because of the debate will be a maximum of a 1,2% and the participation and implication in the classroom will be weighed 5,2%.

When failed, for the extraordinary term evaluation the student shall repeat at least all those activities graded below 5, following the only final test evaluation mode. The final grade will be the composition of the grade of the repeated activities and the grade obtained for the non repeated during the course. If the student does not repeat any of the failed activities during the ordinary course, they will be considered failed.

7. Teaching resources

7.1. Teaching resources for the subject

Name	Type	Notes
Norman, D. (2013) The Design of Everyday Things. Zone Books	Bibliography	UX and general design essential
Griffiths, S. (2015) Mobile App UX Principles. Improving user experience and optimising conversion. Google (https://www.thinkwithgoogle.com/intl/en-gb/articles/m)	Bibliography	UX in mobile design

obile-app-ux-principles-improving-user-experience-and-optimising-conversion.html)		
Mendoza, A (2013) Mobile User Experience. Patterns to Make Sense of it All. Morgan Kaufmann	Bibliography	UX in mobile design
Doncaster, P. (2014) The UX Five Second Rules. Guidelines for User Experience Design's Simplest Testing Technique. Elsevier	Bibliography	UX testing
Subject's Moodle site	Web resource	https://moodle.upm.es/titulaciones/oficiales/course/view.php?id=7964

8. Other information

8.1. Other information about the subject

The classroom percentage activities (30,1%) is lower than the required (35%) due to the restrictions imposed from the School direction regarding to the standard classroom hours for master studies.