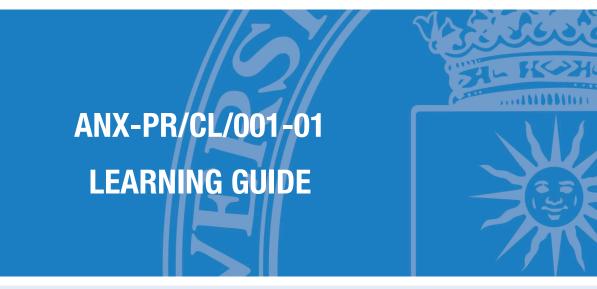


COORDINATION PROCESS OF LEARNING ACTIVITIES PR/CL/001



E.T.S. de Ingenieros Informaticos



SUBJECT

103000874 - User Experience And Mobile Interaction

DEGREE PROGRAMME

10AZ - Master Universitario En Innovación Digital

ACADEMIC YEAR & SEMESTER

2022/23 - Semester 1





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1. Description

1.1. Subject details

Name of the subject	103000874 - User Experience And Mobile Interaction
No of credits	6 ECTS
Туре	Optional
Academic year ot 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	2022-23

2. Faculty

2.1. Faculty members with subject teaching role

Name and surname	Office/Room	Email	Tutoring hours *
			Tu - 15:00 - 18:00
			W - 15:00 - 18:00
Ricardo Imbert Paredes	D 5112	riaarda imbart@upm aa	It is advisable to
(Subject coordinator)	D-5112	ricardo.imbert@upm.es	confirm by email the
			availability of the
			professor
			M - 10:00 - 12:00
			Tu - 10:00 - 12:00
lass Maria Parambanas			W - 10:00 - 12:00
Jose Maria Barambones	5106	j.barambones@upm.es	It is advisable to
Ramirez			confirm by email the







* 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. UX in the product design
- 6. Mobile prototyping
- 7. Design guidelines
- 8. Evaluation of the UX





5. Schedule

5.1. Subject schedule*

Week	Classroom activities	Laboratory activities	Distant / On-line	Assessment activities
	1. Introduction to UX&MI			
1	Duration: 03:00			
	2. Context and specific needs related			Affinity diagraming (needs)
	solution			Quert's second second
2	Duration: 01:00			Continuous assessment
				Presential Duration: 02:00
	2. Context and specific needs related			Value proposition canvas exercise
	solution			
3	Duration: 01:00			Continuous assessment
				Presential
				Duration: 02:00
	2. Context and specific needs related solution			Personas workshop
4	Duration: 00:30			Continuous assessment
4				Presential
				Duration: 02:30
	3. Design of memorable experiences			User profiles, empathy map and
	Duration: 00:30			refinement of value proposition
				Continuous assessment
	3. Design of memorable experiences			Not Presential
5	Duration: 02:00			Duration: 00:00
				User journey map exercise
				Continuous assessment
				Presential
				Duration: 00:30
	4. UX&UI: Visual principles			Contrast exercise
	Duration: 01:00			Continuous assessment
				Presential
	4. UX&UI: Visual principles			Duration: 01:00
	Duration: 01:00			
6				Assignment about color observation
				Continuous assessment and final
				examination
				Not Presential
				Not i resentiai





	4. UX&UI: Visual principles	Assignment about typefaces
	Duration: 00:15	Assignment about typeraces
	Duration. 00.15	Continuous assessment and final
		examination
	4 UX8UU Vieual principles	Not Presential
	4. UX&UI: Visual principles	
7	Duration: 01:30	Duration: 00:00
		Mood board exercise
		Continuous assessment
		Presential
		Duration: 00:00
	5. UX in the product design	
8	Duration: 03:00	
	5. UX in the product design	Assignment about product design
	Duration: 03:00	
9		Continuous assessment
		Presential
		Duration: 00:00
	6. Mobile prototyping	
10	Duration: 03:00	
10		
	7. Design guidelines	Analysis of mobile apps with UX
	Duration: 00:15	
	Duration: 00:15	problems
		Continuous assessment and final
11		
	7. Design guidelines	examination
	Duration: 00:15	Not Presential
		Duration: 00:00
	6. Mobile prototyping	
12	Duration: 03:00	
	8. UX evaluation	Assignment about 5 seconds test
	Duration: 00:30	
		Continuous assessment
13		Presential
	8. UX evaluation	Duration: 00:00
	Duration: 02:30	
	8. UX evaluation	Assignment about UEQ
	Duration: 00:30	
		Continuous assessment
14		Presential
	8. UX evaluation	Duration: 00:00
	Duration: 02:30	
15	1 1	
16	1 1	
-	<u> </u>	Mobile prototype evaluation assignmer
		Continuous assessment
		Not Presential
		Duration: 00:00
17		
		Student implication and participation
		Continuous assessment
		Presential Duration: 00:00



ANX-PR/CL/001-01 Learning Guide



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.



ANX-PR/CL/001-01 Learning Guide



6. Activities and assessment criteria

6.1. Assessment activities

6.1.1. Assessment

Week	Description	Modality	Туре	Duration	Weight	Minimum grade	Evaluated skills
2	Affinity diagraming (needs)		Face-to-face	02:00	1.44%	0 / 10	CE-DIPO03
3	Value proposition canvas exercise		Face-to-face	02:00	3.96%	0 / 10	CE-DIPO03
4	Personas workshop		Face-to-face	02:30	5.4%	0 / 10	CE-DIPO03
5	User profiles, empathy map and refinement of value proposition		No Presential	00:00	10.8%	0/10	CE-DIPO03
5	User journey map exercise		Face-to-face	00:30	7.2%	0/10	CE-DIPO01 CE-DIPO03
6	Contrast exercise		Face-to-face	01:00	7.2%	0 / 10	CE-DIPO01
6	Assignment about color observation		No Presential	00:00	7.2%	0/10	CE-DIPO01
7	Assignment about typefaces		No Presential	00:00	7.2%	0 / 10	CE-DIPO01
7	Mood board exercise		Face-to-face	00:00	7.2%	0/10	CE-DIPO01 CE-DIPO03
9	Assignment about product design		Face-to-face	00:00	7.2%	0/10	CE-DIPO01 CE-DIPO03
11	Analysis of mobile apps with UX problems		No Presential	00:00	7.2%	0/10	CE-DIPO01
13	Assignment about 5 seconds test		Face-to-face	00:00	7.2%	/ 10	CE-DIPO03 CE-DIPO01
14	Assignment about UEQ		Face-to-face	00:00	7.2%	/ 10	CE-DIPO01
17	Mobile prototype evaluation assignment		No Presential	00:00	7.2%	0/10	CE-DIPO01
17	Student implication and participation		Face-to-face	00:00	6.4%	0 / 10	CE-DIPO01

6.1.2. Global examination

Week	Description	Modality	Туре	Duration	Weight	Minimum grade	Evaluated skills
6	Assignment about color observation		No Presential	00:00	7.2%	0/10	CE-DIPO01





7	Assignment about typefaces	No Presential	00:00	7.2%	0 / 10	CE-DIPO01
11	Analysis of mobile apps with UX problems	No Presential	00:00	7.2%	0 / 10	CE-DIPO01

6.1.3. Referred (re-sit) examination

Description	Modality	Туре	Duration	Weight	Minimum grade	Evaluated skills
Mobile prototype refactoring and evaluation		Face-to-face	00:00	7.2%	/ 10	CE-DIPO01
Assignment about color observation		Face-to-face	00:00	7.2%	/ 10	CE-DIPO01
Assignment about typefaces		Face-to-face	00:00	7.2%	/ 10	CE-DIPO01
Assignment about 5 seconds test		Face-to-face	00:00	7.2%	/ 10	CE-DIPO01 CE-DIPO03
Assignment about UEQ		Face-to-face	00:00	7.2%	/ 10	CE-DIPO01
Analysis of mobile apps with UX problems		Face-to-face	00:00	7.2%	/ 10	CE-DIPO01

6.2. Assessment criteria

Progressive evaluation

The subject is graded following a continuous assessment.

The subject's progressive evaluation consist of:

- Individual assignments (14,4% of the final grade): the student must complete several individual assignments related to some specific aspects of the subject. These activities **are recoverable** in the global and extraordinary evaluation, always that they had been failed (grade below 5).
- Group assignments (79,2% of the final grade): the purpose of the group assignments is to learn basic concepts and techniques by applying them to a product that will be developed by the students in an incremental and iterative way during the semester. That means that the assignments corresponding to the last steps (prototype refactoring, prototype evaluation, 5 seconds test and UEQ) are **the only recoverable ones**. Since these products are delivered the day before the final presentation, it is impossible to evaluate them in the global evaluation. Therefore, they will be only recoverable in the extraordinary evaluation. However, the group activity "Analysis of mobile apps with UX problems (7,2% of the final grade) is also recoverable in both the global and extraordinary evaluation, since it is not part of the whole project.
- Student participation (6,4% of the final grade): a critical mindset and the analysis skills from the student are valued. These activities are **not recoverable**, either in the global evaluation or in the final evaluation, since





it is the student participation during the classes what it is evaluated.

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 = 14,4% Individual assignments + 79,2% Group assignments + 6,4% Student participation

Global evaluation

When failed during the progressive evaluation, the student may have a new opportunity to pass the subject repeating the recoverable failed parts. Since these parts cover a 21,6% of the final grade this will be the margin for passing the subject during the global evaluation.

Extraordinary evaluation

For the extraordinary term evaluation the student can repeat the following activities, only if they are graded under 5:

- The correction of the mobile HiFi prototype, taking into account the errors made and the results of the evaluation performed during the ordinary period, and its evaluation (7,2% of the final grade).
- The analysis of mobile apps with UX problems (7,2%).
- The evaluation of the HiFi prototype UX through the technique of the 5 seconds test (7,2% of the final grade).
- The evaluation of the HiFi prototype UX through the UEQ technique (7,2% of the final grade).
- The individual assignment about color observation (7,2%).
- The individual assignment about typefaces (7,2%).

Zero tolerance against fraud

If fraudulent acts are detected during the development of evaluation tests, the provisions of article 13 of the UPM Evaluation Regulations approved by the Governing Council on May 26, 2022 will apply.





7. Teaching resources

7.1. Teaching resources for the subject

Name	Туре	Notes		
Norman, D. (2013) The Design of	Bibliography	UX and general design essential		
Everyday Things. Zone Books				
Griffiths, S. (2015) Mobile App UX				
Principles. Improving user				
experience and optimising				
conversion. Google (https://www.thin				
kwithgoogle.com/intl/en-gb/articles/m	Bibliography	UX in mobile design		
obile-app-ux-principles-improving-us				
er-experience-and-optimising-				
conversion.html)				
Mendoza, A (2013) Mobile User				
Experience. Patterns to Make Sense	Bibliography	UX in mobile design		
of it All. Morgan Kaufmann				
Doncaster, P. (2014) The UX Five				
Second Rules. Guidelines for User	Diblicence			
Experience Design's Simplest	Bibliography	UX testing		
Testing Technique. Elsevier				
		https://moodle.upm.es/titulaciones/oficiales/c		
Subject's Moodle site	Web resource	ourse/view.php?id=7964		
Subject MS Teems group	Web recourse	Live online lectures, workshops and		
Subject MS Teams group	Web resource	presentations		





8. Other information

8.1. Other information about the subject