INSTITUTO POLITÉCNICO DE BRAGANÇA

Name	Demola Project			Field of study	-	
Classification	Extracurricular Course/Project			School	Polytechnic Institute of Bragança	
Academic Year	2023/2024	Year of study	-	Level	-	ECTS credits	6.0
Type	Semestral	Semester	1	Code	9999-940-1008-00-23	

Workload (hours)	162	Contact hours	T	-	TP	-	PL	-	TC	-	S	-	E	-	OT	-	O	50

T - Lectures; TP - Lectures and problem-solving; PL - Problem-solving, project or laboratory; TC - Fieldwork; S - Seminar; E - Placement; OT - Tutorial; O - Other

Name(s) of lecturer(s)	Barbara Costa Vilas Boas Barroso, Celeste da Cruz Meirinho Antão, Claudia Cristina Silva Costa, Fernando Augusto Pereira, Ines Monteiro Barbedo de Magalhaes, Joao Paulo Pais de Almeida, Juliana Almeida de Souza, Paula Sofia Alves do Cabo, Pedro Miguel Monteiro Rodrigues, Vera Alexandra Ferro Lebres, Vítor Manuel Barrigão Gonçalves

Learning outcomes and competences

At the end of the course unit the learner is expected to be able to:
1. Demonstrate teamwork skills under multidisciplinary, multinational, multicultural, and co-creation environment;
2. Solve real challenges or problems from the community (companies and institutions) requiring innovation and a variety of competences;
3. Demonstrate project management skills using milestones and focusing in user value and business value creation;
4. Demonstrate communication skills by selling their idea in front of a wide audience.

Prerequisites

Before the course unit the learner is expected to be able to:
Communicate in English.

Course contents

Development of multidisciplinary projects based on real challenges or problems from the community (companies and institutions) requiring innovation and where a variety of competences are needed.

Course contents (extended version)

1. Multidisciplinary project development and management using DEMOLA Platform;
2. Problem solving of real challenges from the community;
3. Teamwork;
4. Brainstorming;
5. Prototyping (shitty-prototyping);
6. Innovation;
7. Value proposition for different stakeholders;
8. Solution validation;
9. User value and business value.

Recommended reading

1. Stickdorn, M. , & Schneider, J. (2014). Isto é Design Thinking de Serviços: Fundamentos, Ferramentas, Casos. Bookman Editora.
2. Curedale, R. (2017). Design Thinking Process & Methods 4th Edition. Design Community College Incorporated
3. Plattner, H. , Meinel, C. , & Leifer, L. (2012). Design Thinking Research: Studying Co-Creation in Practice. Springer Berlin Heidelberg.

Teaching and learning methods

Active learning methods, focused on the development of teamwork, using the DEMOLA platform, network and facilities.

Assessment methods

- Continuous assessment. - (Regular) (Final)
   - Projects - 100% (DEMOLA project deliverables and communication skills.)

Language of instruction

English

Electronic validation

Barbara Costa Vilas Boas Barroso, Celeste da Cruz Meirinho Antão, Claudia Cristina Silva Costa, Fernando Augusto Pereira, Ines Monteiro Barbedo de Magalhaes, Joao Paulo Pais de Almeida, Juliana Almeida de Souza, Paula Sofia Alves do Cabo, Pedro Miguel Monteiro Rodrigues, Vera Alexandra Ferro Lebres, Vítor Manuel Barrigão Gonçalves	Vera Alexandra Ferro Lebres
03-11-2023	10-11-2023