

Course Unit	Option I - null	Field of study	Health
Master in	Applied Health Sciences - Community Intervention	School	School of Health
Academic Year	2021/2022	Year of study	1
Type	Semestral	Semester	2
Workload (hours)	121,5	Contact hours	T - TP - PL - TC - S - E - OT - O -
		Level	2-1
		Code	5055-668-1203-05-21
		ECTS credits	4.5

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) Juliana Almeida de Souza

Learning outcomes and competences

At the end of the course unit the learner is expected to be able to:

1. Create and develop innovative products or processes in food and nutrition, according to society's trends.
2. Define strategies for a creative and innovative process, for the development of products / processes in food and nutrition, based on multidisciplinary and multicultural innovation and research.
3. Develop a project for an innovative product or process in food and nutrition, fulfilling all stages of Design Thinking or similar.
4. Submit an innovative product or process to an ideas contest or similar.

Prerequisites

Before the course unit the learner is expected to be able to:
Not applicable.

Course contents

1. Megatrends and Innovation in Food and Nutrition 2. Contextualization of Design Thinking in the food context 3. Food and Nutrition innovation project: From problem to solution; From need to product.

Course contents (extended version)

1. Future thinking and Innovation in Food and Nutrition
 - Trends and Megatrends
 - Game changers
 - Black swans
 - Utopia and Distopia
2. Design Thinking in the food context
 - Understanding and Empathising
 - Definition
 - Ideation
 - Prototype
 - Test
 - Reanalysis and Pitch
3. Market analysis.
 - Idea Contest and Funding
 - Application process

Recommended reading

1. Plattner, H. , Meinel, C. , & Leifer, L. (2012). Design Thinking Research: Studying Co-Creation in Practice. Springer Berlin Heidelberg.
2. Curedale, R. (2017). Design Thinking Process & Methods 4th Edition. Design Community College Incorporated
3. Stickdorn, M. , & Schneider, J. (2014). Isto é Design Thinking de Serviços: Fundamentos, Ferramentas, Casos. Bookman Editora.
4. Ferreira, M. ; Santos, J. e Serra, F. , (2010). Ser Empreendedor – Pensar, Criar e Moldar a Nova Empresa, Edições Sílabo, Lisboa.

Teaching and learning methods

Active methodologies, focused in team project development, with teachers guidance.

Assessment methods

- Ordinary evaluation - (Regular, Student Worker) (Final, Supplementary, Special)
- Projects - 100% (A written report and an oral presentation with discussion.)

Language of instruction

Portuguese, with additional English support for foreign students.

Electronic validation

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11-04-2022	11-04-2022	03-05-2022	03-05-2022