

Academic Year/course: 2022/23

68961 - Master's thesis

Syllabus Information

Academic Year: 2022/23

Subject: 68961 - Master's thesis

Faculty / School: 326 - Escuela Universitaria Politécnica de Teruel

Degree: 614 - Master's in Innovation and Entrepreneurship in Health and Wellbeing Technologies

ECTS: 21.0

Year: 1

Semester: Second semester

Subject Type: Master Final Project

Module:

1. General information

1.1. Aims of the course

The objective of the Master's dissertation is the student put into practice the concepts, skills and competences acquired in the master's subjects for the development of a work in the field of Innovation and Entrepreneurship in Technologies for Health and Well-being. In this sense, the Master's dissertation includes the preparation of the work itself, presentation of results, discussion of them, documentation in a report and public defense.

These approaches and objectives are aligned with some of the Sustainable Development Goals, SDG, of the 2030 Agenda (<https://www.un.org/sustainabledevelopment/es/>) and certain specific goals, in such a way that the acquisition of the Learning outcomes of the subject provides training and competence to the student to contribute to a certain extent to their achievement:

? Goal 3: Ensure healthy lives and promote well-being for all at all ages.

Target 3.4 By 2030, reduce by one third premature mortality from non-communicable diseases through prevention and treatment and promote mental health and well-being.

Target 3.d Strengthen the capacity of all countries, in particular developing countries, for early warning, risk reduction and management of national and global health risks.

? Goal 4: Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all.

Target 4.4 By 2030, substantially increase the number of youth and adults who have relevant skills, including technical and vocational skills, for employment, decent jobs and entrepreneurship.

? Goal 8: Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all.

Target 8.6 By 2020, substantially reduce the proportion of youth not in employment, education or training.

? Goal 9: Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation.

Target 9.5 Enhance scientific research, upgrade the technological capabilities of industrial sectors in all countries, in particular developing countries, including, by 2030, encouraging innovation and substantially increasing the number of research and development workers per 1 million people and public and private research and development spending.

1.2. Context and importance of this course in the degree

In this subject, the competences acquired by the student in the master are applied, strengthening other skills such as planning activities, work, knowledge transmission or presentation of results.

1.3. Recommendations to take this course

It is recommended to have passed all the subjects of the first semester.

2. Learning goals

2.1. Competences

By passing the course, the student will be more competent to...

Basic competences:

CB6- Students have and understand knowledge that provides a basis or opportunity to be original in the development and/or application of ideas, often in a research context.

CB7- Students are able to apply their acquired knowledge and problem-solving skills in new or unfamiliar environments within broader (or multi-disciplinary) contexts related to their area of study.

CB8- Students are able to integrate knowledge and deal with the complexity of making judgements based on incomplete or limited information, including reflections of social and ethical responsibilities associated with applying their knowledge and judgements.

CB9- Students are able to communicate their findings and the ultimate knowledge and reasons behind them to specialist and non-specialist audiences in a clear and unambiguous manner.

CB10- Students have the learning skills to enable them to continue studying in a largely self-directed or autonomous manner.

General competences:

CG1- Students have the knowledge, skills and abilities necessary to carry out innovative work in the field of technologies for Health and Well-being.

CG2- Students know how to write technical documents or reports describing a novel application in the field of technology for Health and Well-being, as well as knowledge of mechanisms to protect or distribute it.

CG3- Students search, manage, understand and critically analyze scientific publications, bibliography and documentation in the field of Health and Well-being Technologies.

CG4- Students start a research career in the field of Health and Well-being Technologies with guarantees.

CG5- Students lead, manage and develop research and projects in innovation in the field of Health and Well-being technologies.

Specific competences:

CE7- Students make decisions considering technical, social and economic responsibilities in the field of Health and Well-being, in an integral and interdisciplinary way.

CE9- Students carry out a technological modeling of a real element or scenario in the field of Health and Well-being Technologies, being able to connect it with models from other disciplines.

CE10- Students carry out, present and defend before a university court an original and innovative project or work that solves a real problem in the field of Health and Well-being Technologies in which the skills acquired in the teaching are synthesized and integrated.

2.2. Learning goals

The student will have to show the following skills in order to pass the course:

He/she integrates concepts and skills acquired in the rest of the master's modules.

He/she is able to carry out her activity autonomously.

He/she inquires and critically evaluates the existing scientific literature in an area related to Technologies for Health and Well-being.

He/she generate sinnovative knowledge and evaluate its significance in relation to the available knowledge.

He/she proposes innovative and technically feasible solutions to problems in Technologies for Health and Well-being.

He/she evaluates the transfer possibilities of the new knowledge generated.

He/she communicates the results to specialized and non-specialized audiences.

2.3. Importance of learning goals

The knowledge, aptitudes and abilities acquired through this subject, together with those of the rest of the master's degree, must allow the student to develop the competencies previously exposed, as well as to tackle engineering projects applied to the field of health and well-being with guarantees and with an innovative and entrepreneurial perspective.

3. Assessment (1st and 2nd call)

3.1. Assessment tasks (description of tasks, marking system and assessment criteria)

Defense of the Master's dissertation. The evaluation of this subject is carried out through a presentation of the Master's dissertation before a committee and its corresponding debate.

The composition of the committee as well as other aspects associated with the defense of the Master's dissertation are included in the internal regulations for the management of final Master's dissertation projects at the Escuela Universitaria Politécnica de Teruel, available on its website.

4. Methodology, learning tasks, syllabus and resources

4.1. Methodological overview

The learning process is based on the practical application of the skills acquired in the master in a tutored work.

4.2. Learning tasks

The course consists of 21 ECTS credits that represent an estimated dedication by the student of 525 hours:
Approximately 20 hours of work tutoring by the director.
503 hours of student work.
2 hours dedicated to different assessment tests.

4.3. Syllabus

It will consist of the realization of a memory or project in which the knowledge, abilities, aptitudes and attitudes acquired by the student throughout the degree are revealed.
In any case, it will be materialized in a report or project in written form that will be accompanied, where appropriate, by the material deemed appropriate in accordance with the procedures established by the center.
The Master's Dissertation must have a practical orientation towards some aspect of the Technologies for Health and Well-being

4.4. Course planning and calendar

The student will agree with the supervisor the follow-up sessions.

The deposit and defense of the Master's Dissertation will be made in the time bands established by the Escuela Universitaria Politécnica de Teruel.

The activities to be carried out in the Master's Dissertation will be agreed between the student and the supervisor. These activities will preferably take place during the second semester (spring).

It is convenient for the student to choose the Master's Dissertation during the first semester. For this, during the first semester the offer of Master's Dissertation of the course will be published.