

Academic Year: (2021 / 2022)

Review date: 01-07-2021

Department assigned to the subject: Computer Science and Engineering Department

Coordinating teacher: AEDO CUEVAS, IGNACIO

Type: Compulsory ECTS Credits : 3.0

Year : 1 Semester : 2

REQUIREMENTS (SUBJECTS THAT ARE ASSUMED TO BE KNOWN)

There are no special requirements beyond having an open mind to understand what human-centered informatics entails.

OBJECTIVES

The course is aimed at training students in the knowledge of different advanced systems development techniques with a people-centered paradigm. This course will show an overview of what is human-centered computing, human-computer interaction, usability engineering, interaction objectives (collaboration, fun,...), advanced interaction paradigms (ubiquitous computing, cross reality, web...), methods and techniques of requirements analysis, design and evaluation.

In addition, it is considered a primary objective to foster in students a critical and analytical spirit, which allows them to determine to have a vision of the research fields in the area of human-centered informatics.

Specifically, it is intended that students acquire knowledge that allows them

- Understand the scientific principles and bases of human-computer interaction.
- Understand and analyze the interaction problems that can arise in the development of people-centered systems.
- Know and use various methods and techniques for evaluating interactive systems.
- Analyze and design interaction mechanisms.
- Identify new fields of research in the field of human-centered computing.

DESCRIPTION OF CONTENTS: PROGRAMME

- Human centered informatics
- Human-Computer Interaction
- Interaction paradigms
- Advanced interaction: tangible interaction, wearables, intelligent interfaces and cross-reality
- Interaction analysis and design
- Evaluation of interactive systems

LEARNING ACTIVITIES AND METHODOLOGY

- Lectures, during with the teachers will present the theoretic concepts. It is expected that students participate actively in the lectures.
- Presentation and discussion of articles and works related to the subject of the course.
- The student proposes a project according to the teachers guidance to go deeply into some aspect of the course, followed by public presentation.

ASSESSMENT SYSTEM

The evaluation will take into account the quality, originality and completeness of the works carried out by the students during the course, as well as the quantity and quality of their contributions during the lectures, discussions and work presentations. The same evaluation procedure will be applied in both the ordinary and extraordinary evaluation modalities.

% end-of-term-examination:	0
% of continuous assessment (assignments, laboratory, practicals...):	100

