Academic Year/course: 2022/23

30223 - Artificial Intelligence

Syllabus Information

Academic Year: 2022/23

Subject: 30223 - Artificial Intelligence

Faculty / School: 110 - Escuela de Ingeniería y Arquitectura

326 - Escuela Universitaria Politécnica de Teruel

Degree: 330 - Complementos de formación Máster/Doctorado
439 - Bachelor's Degree in Informatics Engineering
443 - Bachelor's Degree in Informatics Engineering

ECTS: 6.0

Year: 439 - Bachelor's Degree in Informatics Engineering: 3

443 - Bachelor's Degree in Informatics Engineering: 3

330 - Complementos de formación Máster/Doctorado: XX

Semester: First semester

Subject Type: 439 - Compulsory

330 - ENG/Complementos de Formación

443 - Compulsory

Module:

1. General information

2. Learning goals

3. Assessment (1st and 2nd call)

4. Methodology, learning tasks, syllabus and resources

4.1. Methodological overview

The methodology followed in this course is oriented towards the achievement of the learning objectives. A wide range of teaching ans learning tasks are implemented such as: lectures, programming assignments in laboratory sessions, and homework. The development of the master classes and programming activities in the laboratory requires previous study work and the preparation of the activity.

4.2. Learning tasks

The course includes the following learning tasks:

- Lectures,
- problem-solving sessions (with and without professor assistance),
- programming assignments in the laboratory,
- Autonomous work, study and evaluation activities.

4.3. Syllabus

The course will address the following topics:

- Ideas and techniques underlying the design of intelligent computer systems.
- Topics include search, game playing, knowledge representation, inference, planning, reasoning under uncertainty and machine learning.

4.4. Course planning and calendar

Schedule

The timetable will be defined by the centre according to the academic calendar.

Student work

Successful students can spend 10 hours a week on the assignments, depending on their background skills and level of interest, which are distributed in the following way:

1) Lectures (T1) *(30 hours).*

2) Problem Solving sessions (T2) (12 hours).

3) Problem assignments in the laboratory (T2) (18 hours, six sessions of 3 hours)

4) **Autonomous work** *(T6*) (24 hours).

5) Study (T7) (60 hours).

6) Evaluation (T8) (6 hours).

4.5. Bibliography and recommended resources

- **Zaragoza:**

http://psfunizar10.unizar.es/br13/egAsignaturas.php?codigo=30223&Identificador=14674

- **Teruel:**

http://psfunizar10.unizar.es/br13/egAsignaturas.php?codigo=30223&Identificador=13595