Institution: **University of Burgos (*Universidad de Burgos*)**

Specialization: **Artificial Intelligence and Knowledge Management (*Inteligencia Artificial y Gestión del Conocimiento*)**

Aim of the course: The courses included in this specialization provide the student with a deep and wide knowledge about modern techniques and paradigms lying in the field of Artificial Intelligence and Knowledge Discovery in Databases. Language is Spanish. The final project can be in English. ECS is a University degree.

Expert Systems and Artificial Intelligence *Sistemas Expertos e Inteligencia Artificial (1328)*		
Description: This subject introduces to Artificial Intelligence (AI) and is mainly aimed at: • Understand and learn the fundamentals of AI. • Provide a comprehensive and integrating view of AI. • Know about some AI techniques to solve practical problems.		
Examination: written, programming exercise and presentation (optional)		
7 ECTS	6 hours/week	1st semester

Data Mining *Minería de Datos (4462)*		
Description: Knowledge acquired after following this course includes: • Knowledge Discovering in databases. • Main methods in Data Mining. • How to use a Data Mining tool to analyze real data. • Programme simple Data Mining methods.		
Examination: written and programming exercise		
5 ECTS	4 hours/week	1st semester

Foreign Languages		
Description: This module covers different topics out of European culture and languages.		
Examination: written, oral or presentation.		
5.5 ECTS	4 hours/week	1st semester

Neural and Evolutionary Computation *Computación Neuronal y Evolutiva (4464)*		
Description: it shows students how Neural and Evolutionary Computation can help in solving different kinds of problems (such as scheduling, pattern recognition, classification…) depending on the available data.		

Examination: written, programming exercise and presentation (optional).		
5 ECTS	4 hours/week	2nd semester

Algorithms		
Algoritmia (4456)		
Description: Algorithm analysis (complexity and efficiency) and design.		
Examination: written and programming exercise.		
5 ECTS	4 hours/week	2nd semester

Foreign Languages		
Description: This module covers different topics out of European culture and languages.		
Examination: written, oral or presentation.		
5.5 ECTS	4 hours/week	2nd semester

Final Project / Industrial Placement		
Description: Students can distribute the 27 ECTS among a final project and/or an industrial placement. This module aims at the analysis and solution of a section computer science problem. The candidate shall show that he or she is able to apply the acquired knowledge to concrete problems.		
Examination: report and oral presentation.		
27 ECTS	- hours/week	2nd semester

Range of the marks

    10 ....excellent
 9 – 9.9 ....very good
 7 – 8.9 ....good
 5 – 6.9 ....sufficient
 0 – 4.9 ....not passed