Faculty of Sciences, Physical Education and Informatics

FIELD: MATHEMATICS AND COMPUTER SCIENCE

ADVANCED TECHNIQUES FOR INFORMATION PROCESSING, Master degree

Subject	Semester	Number of ECTS credits
Mathematical Modeling and Graph Theory	1st sem	8
Advanced Database Systems	1st sem	4
Pattern Recognition	1st sem	7
Optimization Techniques	1st sem	7
Economic Linear Models	1st sem	4
Computational Models with Applications in Econometrics and Actuarial Science	2nd sem	9
Modern Techniques of Digital Image Processing	2nd sem	9
Proffesional practice	2nd sem	5
Computational Intelligence	2nd sem	7
Software Engineering	1st sem	6
Electronic Commerce and Marketing	1st sem	9
Mathematical Methods in Signal Processing	1st sem	7
System testing and validation	1st sem	4
Economic Modelling Processes	1st sem	4
Distributed Computing - Principles and Algorithms	2nd sem	9
Design and Implementation of Software Distributed Systems	2nd sem	9
Preparation of the Dissertation Thesis	2nd sem	8
Machine Learning	2nd sem	4

DIDACTICAL MATHEMATICS, Master degree

Subject	Semester	Number of ECTS credits
Complements of Arithmetic and Algebra	1st sem	11
Complements of Mathematical Analysis	1st sem	11
Complements of Geometry	1st sem	8
Special Chapters of Algebra	2nd sem	9
Educational Software	2nd sem	7
Practice	2nd sem	5
Special Chapters of Mathematical Analysis	2nd sem	9
Digital processing of information	1st sem	7
Special Chapters of Geometry	1st sem	7
Special Chapters of Didactical Mathematics	1st sem	4
Applied Mathematics I	1st sem	8
Mathematical History	1st sem	4
Mathematical Themes for Optional Curricula	2nd sem	8
Techniques and Methods of School Evaluation	2nd sem	7
Practice for the Elaboration of Dissertation Paper	2nd sem	7
Applied Mathematics II	2nd sem	8