Inter-University Master’s degree in COMPUTATIONAL ENGINEERING AND MATHEMATICS

The URV-UOC online Master’s degree in Computational Engineering and Mathematics (ECiM) offers interdisciplinary training in engineering and applied sciences. The ECiM programme includes cutting-edge topics such as computer modelling and simulation, numerical methods, parallel and distributed computing, knowledge representation, networks and graphs, and applied optimization.

The aim of the degree is to prepare students for R&D positions in industry, research centres and universities. It is intended for graduates with various scientific and technical qualifications (computer engineering, mathematics, telecommunications engineering, industrial engineering, statistics, physics, etc).

The teachers on the master’s degree are active researchers in their respective areas, which means they are well qualified to assist students on the programme who are interested in research careers in computational engineering and mathematics.

Aimed at

Academic coordination:
Dr Juan Alberto Rodríguez Velázquez

Associated doctoral programme:
Computer Engineering and Mathematics of Security

Career opportunities:
- Research and development centres
- Companies working in the field of information and communication technologies
- Computing centres
- Universities

Participating universities
- Universitat Rovira i Virgili (coordinating university)
- Open University of Catalonia

Grants
- URV Master’s Degree Grants

WHERE
School of Engineering (ETSE)
Avinguda dels Països Catalans, 26 43007 Tarragona

LANGUAGE
English

DURATION
60 ECTS
From October 2019 to June 2020

TIMETABLE
Online

COST
€ 3,636 (18/19 reference academic course)
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<td>· Numerical Methods in Engineering</td>
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**OPTIONAL SUBJECTS**

- Digital Codes                             6
- Chaotic Dynamic Systems                   6
- Graph Theory and Its Applications         6
- Modelling with Differential Equations     6
- Cryptography and Blockchain Technology    6
- Multivariate Analysis of Data             6
- Finite Elements and Finite Differences: Numerical Solution of EPDs 6
- Complex Networks                          6
- Operative Research                        6
- Metaheuristic Optimization                6
- Structures of Data and Algorithms         6
- Artificial Intelligence                   6
- Large Scale Distributed Systems           6
- Pattern Recognition                       6
- Data Analysis in Big Data Settings        6

(*) In this section, you will find the list of all the Optional Subjects on the curriculum. Before you select the subjects you wish to register for, please make sure that they have been activated.