The Faculty of Mathematics was established in 1948 as a component part of the Pedagogical Institute from Timișoara. Starting with 2004, the Faculty of Mathematics changed its name to the Faculty of Mathematics and Computer Science. Mathematics and Computer Science are priority fields of study that have led to the extraordinary technical development of our civilization.

Our faculty is committed to providing its students with:

- the possibility to become specialists in the two fields;
- modern, high-academic programs, at bachelor's, master's and doctoral level;
- access to state-of-the-art equipment and excellent study and research conditions.

The academic community in our faculty is dedicated to consolidating the prestige of the West
Educational offer in Computer Science

1. **Bachelor studies (duration of 3 years)**
   - Computer Science (taught in Romanian and English)
   - Applied Computer Science

2. **Master studies (duration of 2 years)**
   - Artificial Intelligence and Distributed (taught in Romanian and English)
   - Software Engineering
   - Big Data - Data Science, Analytics and Technologies (taught in English)
   - Bioinformatics
   - Cyber Security

3. **Doctoral studies (duration between 3-5 years)**
   - Parallel and Distributed Computing
   - Artificial Intelligence
   - Computational Intelligence and Nature-Inspired Metaheuristics
   - Theoretical Computer Science
Educational offer in Mathematics

1. **Bachelor studies (duration of 3 years)**
   - Mathematics (taught in Romanian)
   - Mathematics and informatics (taught in Romanian)

2. **Master studies (duration of 2 years)**
   - Analytic and Geometric Modeling of Systems (taught in Romanian)
   - Financial Mathematics (taught in Romanian)

3. **Doctoral studies (duration between 3-5 years)**
   - Mathematical Analysis and Applications in Control Theory
   - Differential Equations and Nonlinear Analysis
   - Asymptotic and Geometric Behaviour of Dynamical Systems
   - Dydamical Systems, Mechanics and Geometry
FACULTY OF MATHEMATICS AND COMPUTER SCIENCE
Infrastructure in Computer Science

1. Teaching & research facilities
   - 8 laboratories for teaching
   - 4 laboratories for the research activity of master and PhD students
   - 4 seminar rooms
   - 2 lecture rooms

2. Documentation
   - Computer Science Department Library
   - Faculty of Mathematics and Computer Science Library at BCUT (www.bcut.ro)

3. Access to computing resources for students
   - 145 computer stations in laboratories
   - 2 clusters (cu 28, respectively 400 cores)

4. Teaching and administrative staff
   - 37 permanent teaching staff positions
   - >30 associated teaching staff positions
   - 1 system engineer
   - 1 faculty administrator
International Agreements

- **Erasmus** agreements with 40 universities from European countries (Austria, Bulgaria, Denmark, France, Finland, Hungary, Germany, Italy, Poland, Portugal, Slovenia, Spain, Turkey, UK)
- **Bilateral agreements** for joint doctoral studies with universities from Austria, France and Italy
- **Double-degree Bachelor** programs in Computer Science in partnership with 7 European universities: France, Spain, Portugal, Germany, Romania, Finland, Italy
- **Joint Master** program in Industrial Mathematics with the Eindhoven University of Technology
- **Partnership** with INRIA- France for a graduate research internship program

Academic Partnerships

- **Informatica-Universitaria Consortium**: Babeș-Bolyai University Cluj Napoca, University of Bucharest, A. I. Cuza University Iasi, West University of Timisoara
- **Industrial Programs**: IBM Romania, Microsoft Academic Alliance, OAI Oracle, SAP Academy
FACULTY OF MATHEMATICS AND COMPUTER SCIENCE

Center for Research in Computer Science (CeRiCS)

OVER 50 RESEARCHERS ENGAGED

6 RESEARCH DIRECTIONS

OVER 70 INTERNATIONAL & NATIONAL PROJECTS
The main mission of the Research Center in Computer Science is to offer a collaborative environment aiming to stimulate high quality research in a broad range of computer science topics and to foster the cooperation with national and international research teams. Some of the main results obtained in the last 5 years by each of the six research groups.

1. **Main research topics**
   - Cloud Computing, HPC, and IoT
   - Big Data Applications and Analysis
   - Artificial Intelligence and Machine Learning
   - Applications in Earth Observation
   - Theory of Computing
   - Computational and Applied Mathematics

2. **Main activities**
   - Research projects with national / international cooperation
   - Scientific articles, volumes and conferences
   - Results dissemination at national / international level through conferences, seminars, exchanges of experience, etc.
   - Results dissemination at national / international level through scientific publications
FACULTY OF MATHEMATICS AND COMPUTER SCIENCE

Center for Research in Computer Science (CeRiCS)

Team

- Number of researchers: 51
- 18 senior researchers (Director: Prof. Dr. Viorel NEGRU)
- 7 post doctoral researchers
- 26 PhD students in 6 research groups

Strategic partners

- Research Institute for Symbolic Computation, Inz, Austria
- Computer Vision Center and Universidad Autonoma Barcelona, Spain
- University of Rijeka - Croatia, Technical
- University of Ostrava - Czech Republic
- Technical University of Kosice - Slovakia
- University of Ljubljana - Slovenia
- University of Novi Sad - Serbia
Research infrastructure

- **Pepper** - semi humanoid robot used for research on intelligent systems and learning-processes
- **InfraGrid** Compute Cluster (2009): 4x IBM Blade Center-H Chassis, 50x IBM Blade-Server HS22
- **HOST** GPU Cluster (2012): 7 compute nodes and 13TB of raw storage capacity
- **BID** Power Cluster: 1x IBM Power System AC922, 1x IBM Power System AC922, 1x IBM Spectrum Scale Storage, 1PB storage capacity

ERRIS (Engage in the Romanian Research Infrastructures System)

- https://erris.gov.ro/UVT-HPC-Center
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