

FACULTY OF AUTOMOTIVE, MECHATRONICS AND MECHANICAL ENGINEERING
FIELD OF MECHATRONICS AND ROBOTICS



PROGRAM
MECHATRONICS

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MECHATRONICS

Why MECHATRONICS

Mechatronics combines precision mechanics, electronics and computer science, and is simply defined as the "science of intelligent machines".

- automated manufacturing lines - Industry 4.0
- latest-generation mobile robots
- smart automobiles
- human-machine hybrid systems
- CNC machine tools
- modern technology in agriculture and the food industry
- biomedical devices, prostheses and orthoses
- household appliances

One of the top programs of the ARMM Faculty

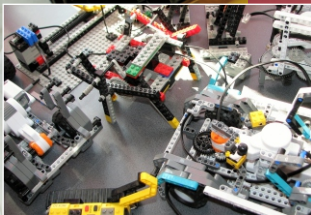




What you will STUDY

- Cyber-Physical systems, IoT, biomechatronics
- robotics, mini and microrobots
- applied electronics, microcontrollers and microprocessors
- programmable logic controllers
- applied computer science and artificial intelligence
- drive systems, micromotors and actuators
- intelligent mechanical systems and adaptive mechanical transmissions
- mechatronic systems design
- advanced control methods
- power electronics and optoelectronics
- computer-aided design
- CNC machine tools

MECHATRONICS STUDENT OPPORTUNITIES



student clubs

hands-on groups for developing practical skills:
Industrial mechatronic systems; Mobile robotics;
Microsystem programming; Applied biomechanics;
Precision mechatronic systems;
Reconfigurable intelligent systems.

national and international competitions

Mechatronics Education Days; SmartMech Cup;
Bosch Future Mobility Challenge;
Aventics™ Pneumobile Competition

internships in specialized companies

student organizations

make the most of volunteering opportunities
and open new horizons





MOBILITIES & INTERNSHIPS

Technical University of Cluj-Napoca

is a member of the European alliance

EUROPEAN UNIVERSITY OF TECHNOLOGY – Eut+



EUROPEAN
UNIVERSITY OF
TECHNOLOGY

www.univ-tech.eu

FINLAND
JAMK University
of Applied Sciences

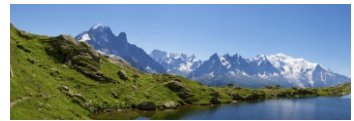
FRANCE
The University
of Savoie Mont Blanc

GERMANY
Kaiserslautern University
of Applied Sciences

ITALY
Polytechnic University of Bari

PORTUGAL
University of Minho

SPAIN
University of Jaén



Erasmus+

Over 40 bilateral Erasmus+ agreements
with universities in Europe, Turkey and Israel

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MECHATRONICS

HOW TO BECOME A STUDENT

step


1

Follow admission updates

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admitere.armm.utcluj.ro

 [/armm.utcluj.ro](https://www.facebook.com/armm.utcluj.ro)

 [/armm.utcluj](https://www.instagram.com/armm.utcluj)

step

2

Do not miss the admission calendar

step

3

Your first choice when applying is the Mechatronics and Robotics field, Mechatronics program

step

4

After the initial results are posted

confirm your place by submitting the original application documents to the Faculty of Automotive, Mechatronics and Mechanical Engineering

step

5

Further sliding/allocation rounds will follow

which may change your status (if you were not admitted to your first choice). See details about confirming your new place on the online admission platform.

 admitereonline.utcluj.ro



OPPORTUNITIES

further studies / internships / collaboration / employment



MASTER'S - Mechatronic Systems Engineering (ISM), Precision Engineering and Quality Management (IPMC)

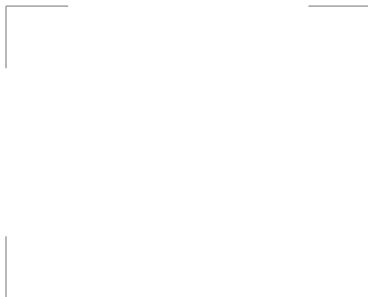
PhD - Mechanical Engineering, Industrial Engineering (in Romania or abroad)

 <i>Research & Development</i>	 driving technologies	
	 <small>Yotta Volt Energy</small>	
 PSC Automatizări și Instalații	 FSA Technologies	 creating your comfort
 ambulanțe și vehicule speciale echipamente de urgență	 GARANTIA UTILAJELOR FIABILE	
 Pneumatică & Control Fluide		



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Mechatronics Program



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