

LET'S TALK ABOUT

FILS

MASTER'S PROGRAMMES

Faculty of Engineering in Foreign Languages

National University of Science and Technology POLITEHNICA Bucharest

fils.upb.ro


POLITEHNICA BUCUREȘTI
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National University of Science and Technology
POLITEHNICA Bucharest
turvirtual.upb.ro


FILS
Faculty of Engineering in Foreign Languages
fils.upb.ro/en/about-us/

WHY A MASTER'S AT FILS?

The Faculty of Engineering in Foreign Languages (FILS) is one of the 21 faculties of POLITEHNICA Bucharest, Romania's oldest and largest comprehensive university.

Our master's programmes take bachelor's graduates further: **two years of advanced, specialised engineering, taught entirely in English, French or German**, built around research, industry projects and international partnerships.



A COMPLETE PATH → **BACHELOR'S** → **MASTER'S** → **DOCTORATE**

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Faculty of Engineering in Foreign Languages

KEY FIGURES

3
language streams

2
departments:
DILS & DCLM

2
language lectureships:
French and German

7
francophone
associations and clubs

120
ECTS over 2
years
(4 semesters)

9
Master's
programs

1800
students from 60+
countries on 4 continents

80
partnerships with
european universities

WHY CHOOSE US FOR YOUR MASTER'S?

1

SPECIALISE

Go deeper into a field that matches your interests and ambitions.

2

BUILD EXPERTISE

Develop advanced technical, analytical and professional skills.

3

OPEN NEW PATHWAYS

Prepare for specialist roles, innovation and future research.

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STUDY INTERNATIONALLY
Engineering programmes taught in English, French or German

LEARN BY DOING
Projects, modern laboratories and applied challenges

CONNECT WITH INDUSTRY
Meet professionals and explore career opportunities

EXPLORE THE WORLD
Mobility opportunities and international partnerships

JOIN A COMMUNITY
Multicultural environment, academic events and student initiatives

KEEP GROWING
A pathway towards research and future doctoral studies

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MASTER'S DEGREE PROGRAMMES 2 years

COMPUTERS AND INFORMATION TECHNOLOGY

- **Artificial Intelligence for Engineering – bilingual programme**
- **Software Engineering**
- **Management, Innovation and Collaborative Systems Technologies**

ENGINEERING AND MANAGEMENT

- **Business Administration and Engineering**
- **Business Administration and Industrial Engineering**
- **Sustainable Excellence and Leadership in Industry**

INDUSTRIAL ENGINEERING

- **Industrial Systems Engineering**

CHEMICAL ENGINEERING

- **Biomaterials for Tissue Engineering**
- **Advanced Materials Processing and Design**





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WHAT MASTER'S STUDENTS GAIN

ADVANCED EXPERTISE

Semesters 1–3

- Specialised courses in your field
- Applied, project-based work
- Current tools and technologies

RESEARCH SKILLS

Throughout, ending in the dissertation

- Research modules every semester
- Scientific papers and conferences
- Dissertation in semester 4

LEADERSHIP SKILLS

Throughout Both Years of Study

- Project management
- Ethics and academic integrity
- Working in an international, multilingual team

FROM LEARNING TO RESEARCH

EXPLORE → **CONTRIBUTE** → **PRESENT**

Discover research topics connected to your master's specialisation

Work on applied projects, scientific activities and your dissertation

Share ideas and results at academic events and scientific sessions

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COMPUTERS AND INFORMATION TECHNOLOGY

ARTIFICIAL INTELLIGENCE FOR ENGINEERING



ABOUT THE PROGRAMME

Artificial intelligence for real-world engineering applications, from data and machine learning to intelligent systems.

KEY COMPETENCIES

- Machine learning, deep learning and LLMs
- Data engineering and intelligent systems
- Cloud AI and AI deployment (MLOps)

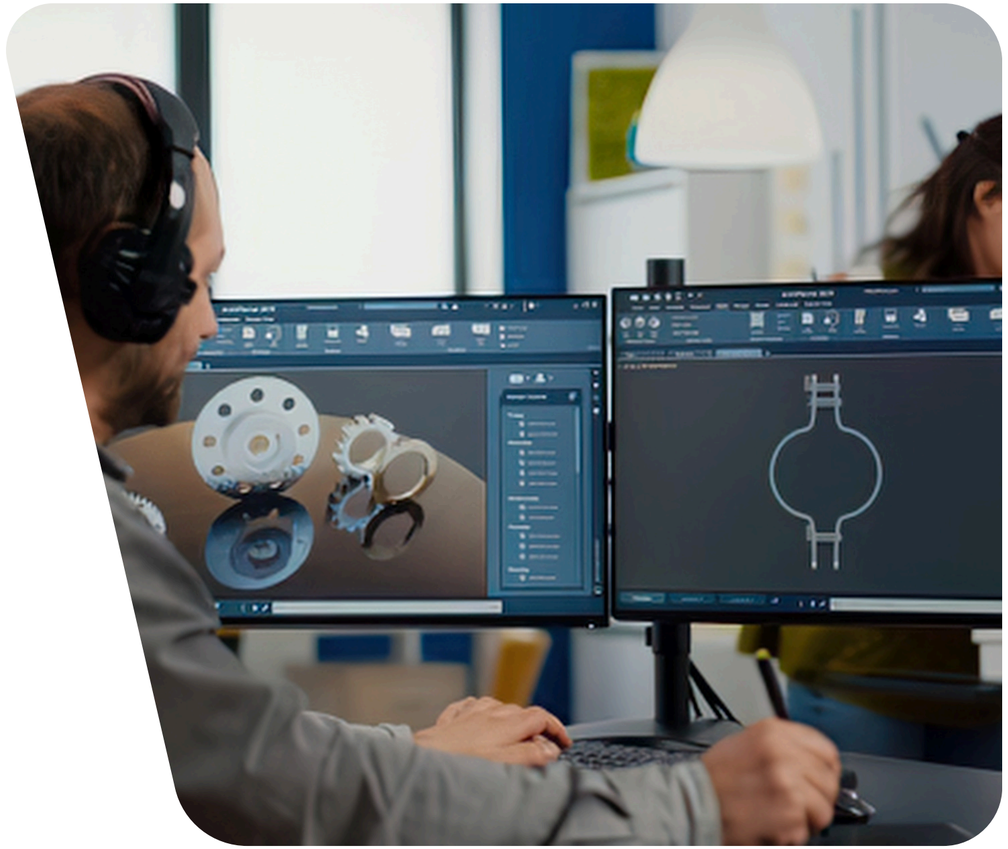
CAREER PATHS

AI Engineer | Machine Learning Engineer | Data Scientist | AI Solutions Engineer

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COMPUTERS AND INFORMATION TECHNOLOGY

SOFTWARE ENGINEERING



ABOUT THE PROGRAMME

Designing, developing and maintaining modern software solutions for complex real-world applications.

KEY COMPETENCIES

- Software architecture and design patterns
- Full-stack development and software testing
- DevOps, cloud technologies and agile methodologies

CAREER PATHS

Software Engineer

Full-Stack Developer

Software Architect

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COMPUTERS AND INFORMATION TECHNOLOGY

MANAGEMENT, INNOVATION AND COLLABORATIVE SYSTEMS TECHNOLOGIES



ABOUT THE PROGRAMME

Combining technology, innovation and management to develop collaborative solutions for modern organisations.

KEY COMPETENCIES

- Innovation and technology management
- Collaborative systems and digital transformation
- Project management and organisational processes

CAREER PATHS

Innovation Manager

IT Project Manager

Collaborative Systems Specialist

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ENGINEERING AND MANAGEMENT

BUSINESS ADMINISTRATION AND ENGINEERING



ABOUT THE PROGRAMME

Combining engineering expertise with business management to drive innovation, strategy and organisational growth.

KEY COMPETENCIES

- Business strategy and management
- Entrepreneurship and innovation
- Project management and decision-making

CAREER PATHS

Business Analyst

Project Manager

Business Development Manager

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Faculty of Engineering in Foreign Languages

ENGINEERING AND MANAGEMENT

BUSINESS ADMINISTRATION AND INDUSTRIAL ENGINEERING



ABOUT THE PROGRAMME

Integrating industrial engineering and business administration to improve processes, productivity and operational performance.

KEY COMPETENCIES

- Industrial operations and production management
- Business administration and strategic planning
- Process optimisation and quality management

CAREER PATHS

Industrial Engineer

Operations Manager

Production Manager

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Faculty of Engineering in Foreign Languages

ENGINEERING AND MANAGEMENT

SUSTAINABLE EXCELLENCE AND LEADERSHIP IN INDUSTRY



ABOUT THE PROGRAMME

Developing leadership and management skills to drive sustainable innovation and operational excellence in industry.

KEY COMPETENCIES

- Sustainable industrial management
- Leadership and organisational development
- Operational excellence and continuous improvement

CAREER PATHS

Sustainability Manager

Quality Manager

Continuous Improvement Specialist

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INDUSTRIAL ENGINEERING

INDUSTRIAL SYSTEMS ENGINEERING



ABOUT THE PROGRAMME

Designing, optimising and managing industrial systems through advanced engineering methods and innovative technologies.

KEY COMPETENCIES

- Industrial systems design and optimisation
- Production planning and process improvement
- Automation and industrial technologies

CAREER PATHS

Industrial Systems Engineer

Process Engineer

Production Engineer

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CHEMICAL ENGINEERING

BIOMATERIALS FOR TISSUE ENGINEERING



ABOUT THE PROGRAMME

Exploring innovative biomaterials and technologies for tissue regeneration and advanced biomedical applications.

KEY COMPETENCIES

- Biomaterials design and characterisation
- Tissue engineering and regenerative medicine
- Biomedical research and laboratory techniques

CAREER PATHS

Biomaterials Engineer | Tissue Engineering Researcher | Biomedical R&D Specialist

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CHEMICAL ENGINEERING

ADVANCED MATERIALS PROCESSING AND DESIGN



ABOUT THE PROGRAMME

Developing and processing advanced materials for innovative applications across engineering and industry.

KEY COMPETENCIES

- Advanced materials design and characterisation
- Materials processing and manufacturing technologies
- Materials testing and performance optimisation

CAREER PATHS

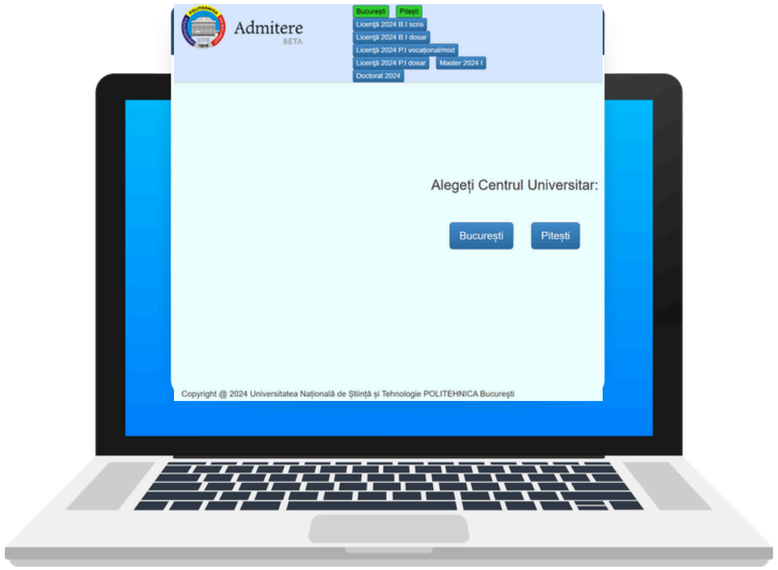
Materials Engineer

Process Development Engineer

Quality Control Specialist

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MASTER'S ADMISSION



- Online application via: **admitere.pub.ro**
- Admission is based on an **application file**
  - Early Admission *(until June)*
  - July Admission Session
  - September Admission Session
- Steps:
  - Online registration and submission of the application documents
  - Online interview (core knowledge and motivation)
  - Enrolment

More details

fils.upb.ro

fils.upb.ro/en/masters-admission/

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OPPORTUNITIES FOR STUDENTS



International agreements

with top universities



International internships

Erasmus+ study and internship opportunities, as well as well as double-degree programmes with top universities abroad



Support for certifications

Courses and certifications in collaboration with our industry partners

UNIVERSITÉ DE MONTPELLIER

UNIVERSITÉ CAEN NORMANDIE

UNIVERSITÉ Grenoble Alpes

POLITECNICO DI TORINO

rijksuniversiteit groningen

VU UNIVERSITY AMSTERDAM

VNIVERSITAT DE VALÈNCIA

Université Paul Sabatier TOULOUSE III

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OPPORTUNITIES FOR STUDENTS

- **Competitions and Hackathons:** Junior Achievement Romania Innovation Camp, RoboChallenge, Cloudflight Coding Contest, Nexxt & OpenHack Hackathons, Tech Challenge, Francophone Regional Scientific Exhibition Competition
- **Summer Schools** organised at FILS, offering the possibility of obtaining certifications
- **Company Presentations and Visits**
- **Workshops** delivered by industry partners
- **Student Scientific Communication Session**
- etc.

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MODERN LABORATORIES AND FACILITIES

COMPUTING AND AI

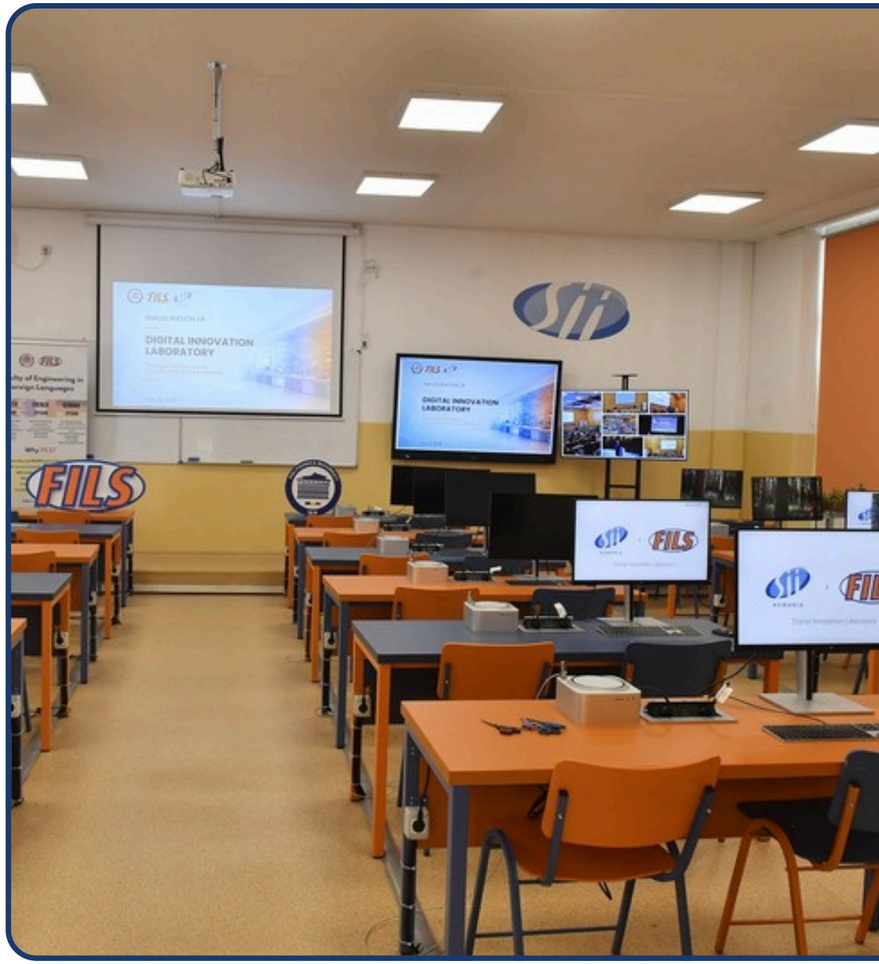
High-performance computing and software development environments

IMMERSIVE TECHNOLOGIES

Advanced technologies, innovative digital tools and hands-on learning experiences

ENGINEERING FACILITIES

Specialised laboratories and university research infrastructure



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ACADEMIC COLLABORATIONS AND EVENTS

INTERNATIONAL ACADEMIC NETWORKS AND EVENTS

- EELISA Student Competition
- EURASHE Higher Education Summit
- International Week IUT2

INNOVATION, SCIENCE AND INDUSTRY EVENTS

- Hackathon Nexxt / OpenHack
- RoboChallenge / TechChallenge
- UiPath Academic Summit

FRANCOPHONE AND GERMAN-SPEAKING COLLABORATIONS

- Forum des Carrières Francophones et de l'Entrepreneuriat
- Francophone scientific symposiums in Central & Eastern Europe
- DAAD Workshops & Proposal Writing Sessions

INSTITUTIONAL AND PROMOTIONAL EVENTS

- POLI International Fest
- Japanese Language Course Opening Ceremony
- Graduation Ceremony for Students of the Romanian Language Preparatory Year
- POLIFEST
- EDUFEST
- POLISPORT
- ROBOFEST
- POLIJOBS
- Forum des Métiers et des Formations
- etc.







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INDUSTRY CONNECTIONS









- Industry presentations, technical workshops and company visits
- Collaboration through faculty and university networks
- Current tools, professional practices and real engineering challenges
- Networking with potential employers and industry specialists

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OUR CORPORATE NETWORK

Bridging academia and industry through real-world projects, internships, workshops and career opportunities



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WHERE OUR GRADUATES GO

Access to better-paying jobs: multinational companies that value in-depth knowledge of a foreign language



Industry multinationals, companies

Research (inter)national institutions or universities





Education university or pre-university education

Services technical support, marketing, or sales





SpiMo project - Oracle award



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DOCTORAL SCHOOL AT FILS

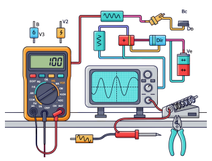
COMING SOON



Planned Doctoral School in:



Computers and Information Technology (CTI)



Electronics, Telecommunications and Information Technology (ETTI)

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POLI International Fest

Our faculty's **flagship event**, bringing together students, universities, companies and cultural institutions to promote collaboration and intercultural exchange.

THE FIRST TWO EDITIONS IN NUMBERS:

- **14,000+** participants
- **80+** companies
- **35+** embassies and cultural institutes
- **20+** international academic partners and organisations
- **35+** panel discussions with industry representatives
- **100+** international guests
- student competitions
- workshops for high school students









fils.upb.ro/en/international_fest_en/

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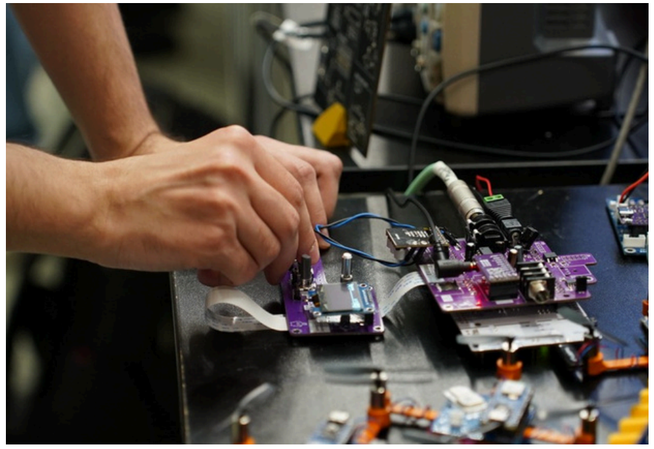
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OUR ACTIVITIES IN PICTURES

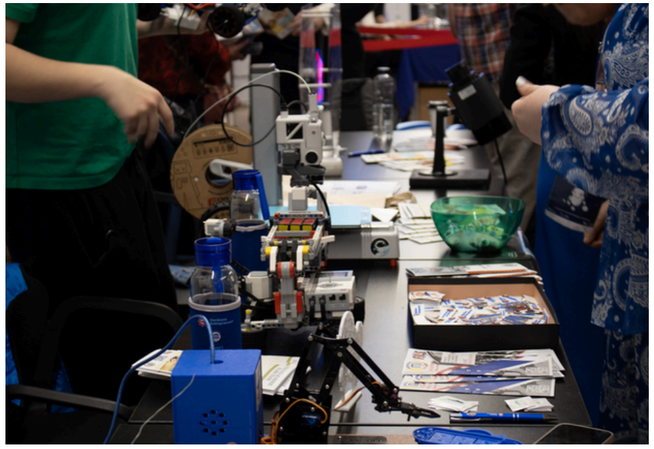












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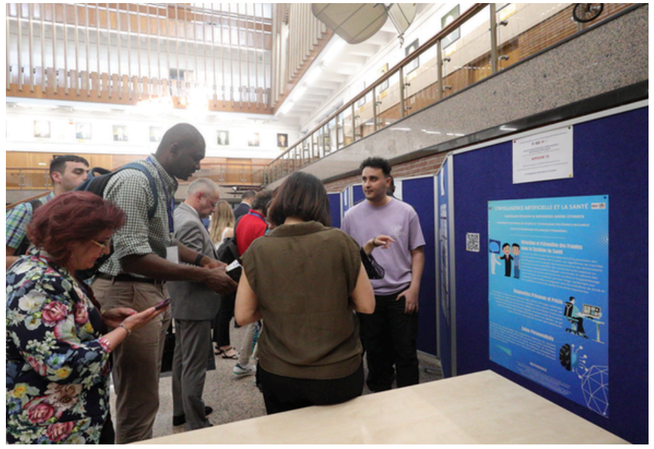
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OUR ACTIVITIES IN PICTURES














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adidas

POLIFEST


FUTURE




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Liked By: UPB1818, CareProfSys.UPB and 31.415 others
#POLIFEST #HardcoreEntrepreneur #UPBOficial #FILS #Engineering
#StudentUPB #ElevUPB #ViitoriIngineri, #StrongerTogether
Comment




ROBOFEST
SERIOUS GAMES
& VIRTUAL REALITY
Education
Healthcare
Cooking
Simulation
Sports
ROBOSAILORS





POLI INTERNATIONAL FEST

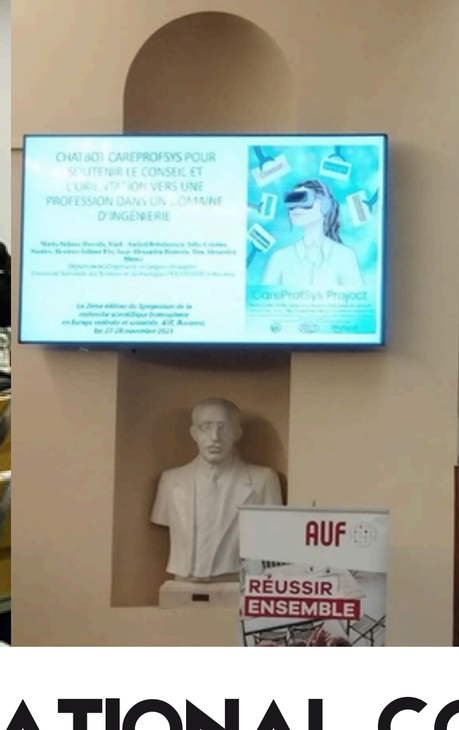






POLI INTERNATIONAL FEST



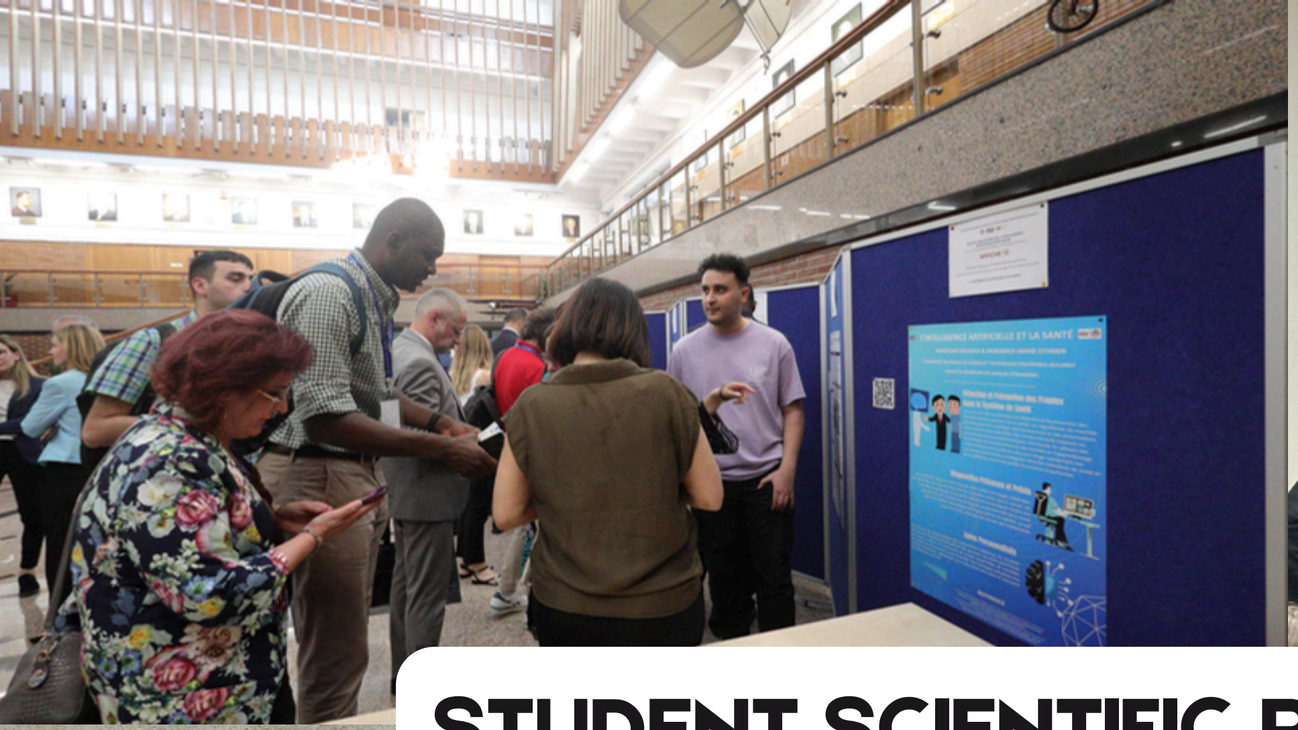




NATIONAL AND INTERNATIONAL CONFERENCES









STUDENT SCIENTIFIC POSTER COMPETITION






Workshop "Primii pași
reali în realitate virtuală"
LET'S TALK ABOUT
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WORKSHOPS




FILS
FACULTATEA DE INGINERIE









HARDCORE ENTREPRENEUR













MASTER'S THESIS DEFENCES





GRADUATION CEREMONIES



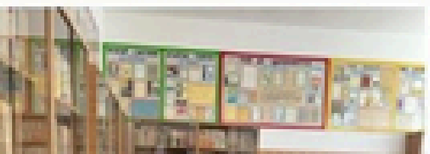


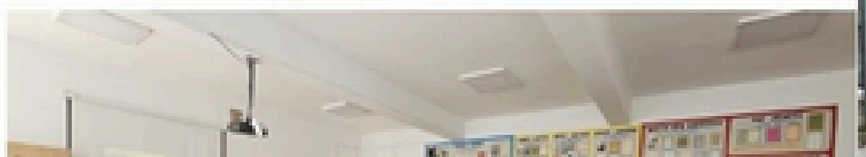

Public Speaking
Aurelian Glocan, PhD






FILS
FACULTATEA DE INGINERIE ÎN LIMBI STRĂINE










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FILIERA GERMANĂ


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