

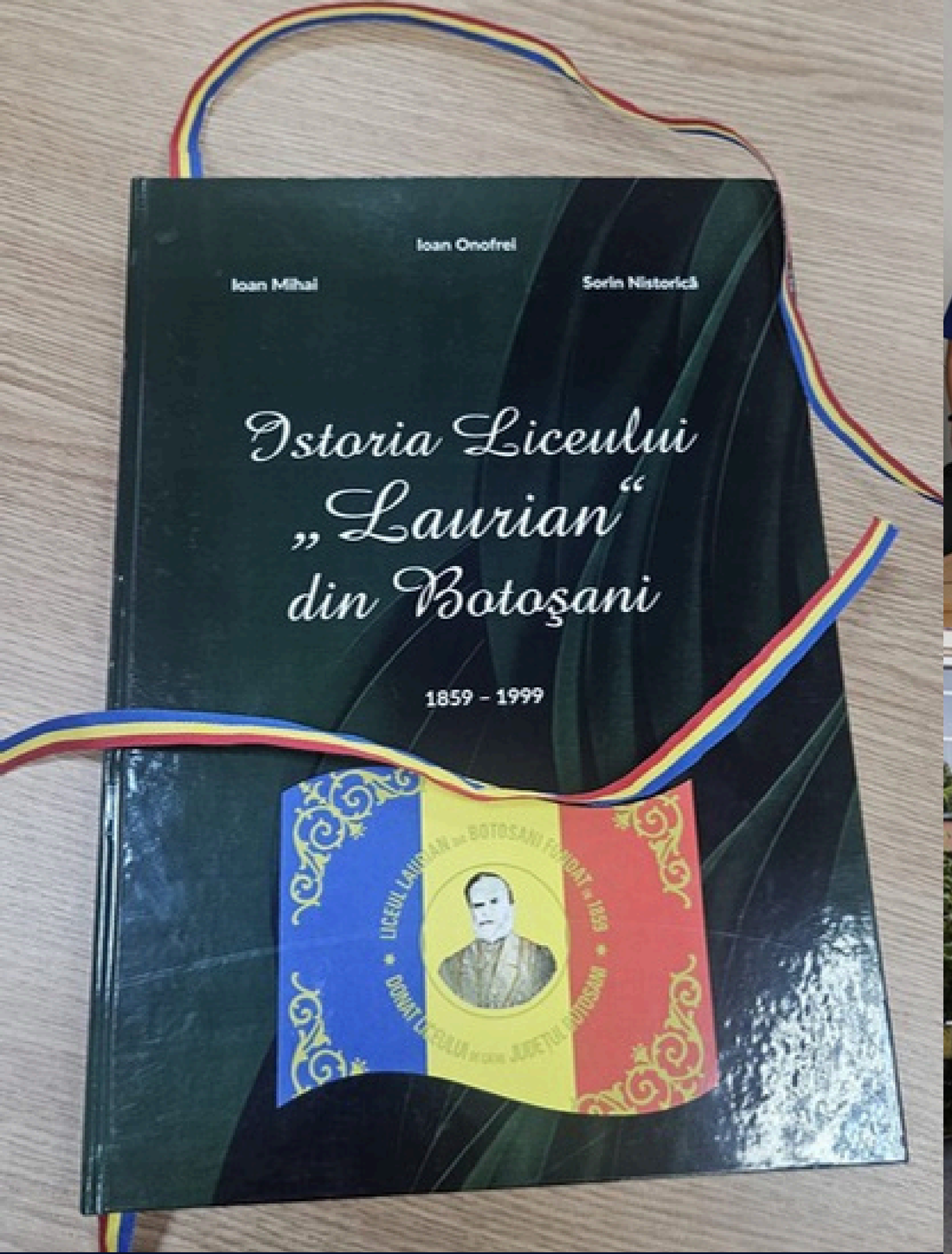
LET'S TALK ABOUT

FILS

Faculty of Engineering in Foreign Languages

National University of Science and Technology POLITEHNICA Bucharest

fils.upb.ro


Ioan Onofrei
Ioan Mihai
Sorin Nistorică
Istoria Liceului
„Laurian"
din Botoşani
1859 – 1999


Colegiul National "A. T. Laurian"
Botoşani
Scoala altfel


FILS
FACULTATEA DE INGINERIE ÎN LIMBI STRĂINE
Colegiul National "A. T. Laurian"
Botoşani
Scoala altfel


POLITEHNICA BUCUREȘTI
1818
National University of Science and Technology
POLITEHNICA Bucharest
turvirtual.upb.ro


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

WHO ARE WE?

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

FILS offers complete **engineering degree programmes (Bachelor's and Master's)**, taught entirely in **English, French and German**, while promoting international academic cooperation, student mobility and strong partnerships with industry and European universities.



National University of Science and Technology POLITEHNICA Bucharest
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

13
Bachelor's
programs

9
Master's
programs

1800
students from 20+
countries on 4 continents

80
partnerships with
european universities

National University of Science and Technology POLITEHNICA Bucharest
Faculty of Engineering in Foreign Languages

BACHELOR'S DEGREE PROGRAMMES 4 years



Computers and information technology
Information engineering
Internet of things engineering (IoT)
Electronic engineering, telecommunications and information technologies
Mechanical engineering
Chemical engineering



Computers and information technology
Information engineering
Internet of things engineering (IoT)
Electronic engineering, telecommunications and information technologies
Mechanical engineering



Industrial engineering and management
Economic engineering in the mechanical field
Economic engineering in electrical, electronic, and energy fields
Electronic engineering, telecommunications and information technologies
Industrial engineering

German Language Preparatory Year
subsidized by POLITEHNICA Bucharest

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National University of Science and Technology POLITEHNICA Bucharest
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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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Faculty of Engineering in Foreign Languages

WHAT STUDENTS LEARN: THREE CATEGORIES OF COMPETENCIES

GENERAL ENGINEERING KNOWLEDGE

Years 1–2 – Common Core Curriculum

- Mathematics
- Physics
- Chemistry
- Programming: Java, C/C++, HTML/CSS/JS, PHP, Linux
- Circuit Theory
- etc.

SPECIALISED COMPETENCIES

Years 3–4

- Artificial Intelligence
- Machine Learning and Neural Networks
- Computer Networks
- Electronic Devices
- Mechatronics
- etc.

TRANSFERABLE SKILLS

Throughout All Years of Study

- Project Management
- Business Administration
- Economics
- Communication
- etc.

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FIELD OF STUDY

COMPUTERS AND INFORMATION TECHNOLOGY (CTI)





LANGUAGE TRACKS:

ABOUT THE PROGRAMME

- An engineering degree programme focused on software development, artificial intelligence and modern IT systems

KEY COMPETENCIES

- Programming (Java, C/C++, Python, web technologies)
- Artificial Intelligence and Machine Learning
- Software Systems and Databases

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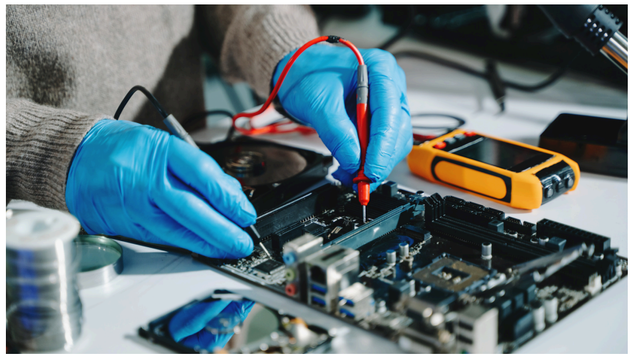
FIELD OF STUDY

ELECTRONICS, TELECOMMUNICATIONS AND INFORMATION TECHNOLOGY ENGINEERING (IETTI)





LANGUAGE TRACKS:

ABOUT THE PROGRAMME

- An engineering degree programme focused on electronics, telecommunications and IT systems

KEY COMPETENCIES

- Electronics and Circuit Theory
- Embedded Systems and IoT
- Communication Networks and Hardware Integration

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FIELD OF STUDY

MECHANICAL ENGINEERING (IM)





LANGUAGE TRACKS:

ABOUT THE PROGRAMME

- An engineering degree programme focused on mechanical systems and technologies

KEY COMPETENCIES

- Mechanics, Materials and Thermodynamics
- Computer-Aided Design (CAD) and Simulation Tools
- Energy Systems and Industrial Applications

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FIELD OF STUDY

CHEMICAL ENGINEERING (IC)





LANGUAGE TRACK:

ABOUT THE PROGRAMME

- An engineering degree programme focused on chemical processes and materials

KEY COMPETENCIES

- Fundamentals of Chemistry (Organic, Inorganic, Physical)
- Chemical Processes and Materials Engineering
- Polymer Science and Industrial Applications

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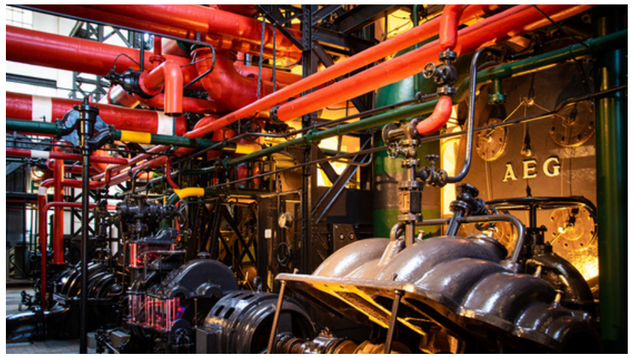
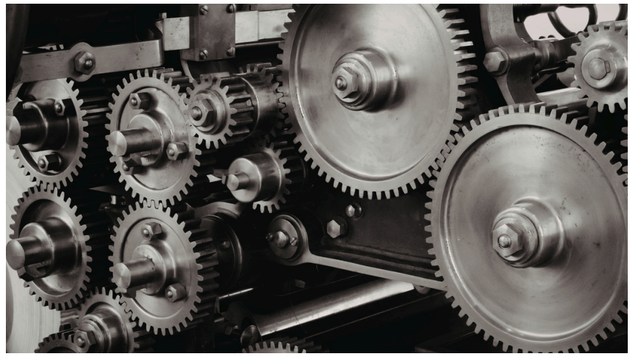
FIELD OF STUDY

ENGINEERING AND MANAGEMENT IN THE MECHANICAL FIELD





LANGUAGE TRACK:

ABOUT THE PROGRAMME

- An engineering degree programme combining mechanical systems with economics and management

KEY COMPETENCIES

- Industrial Economics and Business Fundamentals
- Fundamentals of Mechanical Engineering and Applied Technologies

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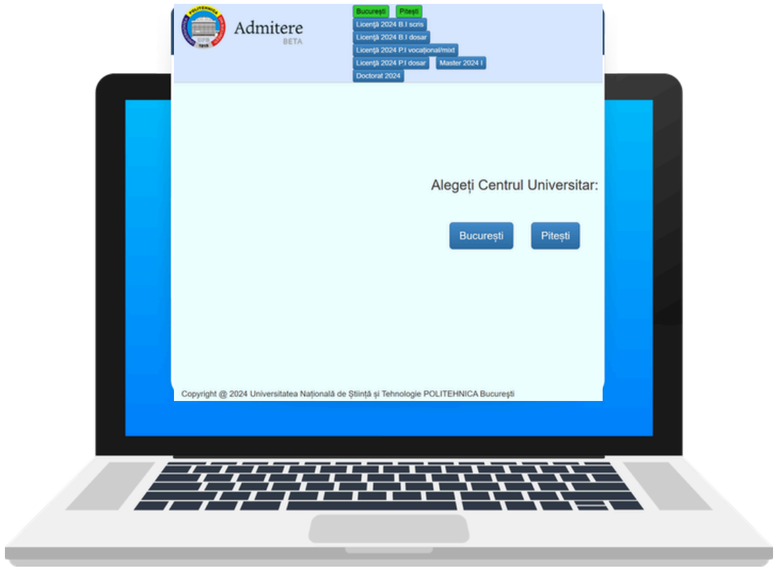
ADMISSION TO FILS



- Online application via: **admitere.pub.ro**
- Admission is based on an **application file (for both Bachelor's and Master's programmes)**
  - Early Admission *(until June)*
  - July Admission Session
  - September Admission Session
- Steps:
  - Online registration and submission of the application documents
  - Document Evaluation (Bachelor's) / Interview (Master's)
  - Enrolment

More details

fils.upb.ro

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

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

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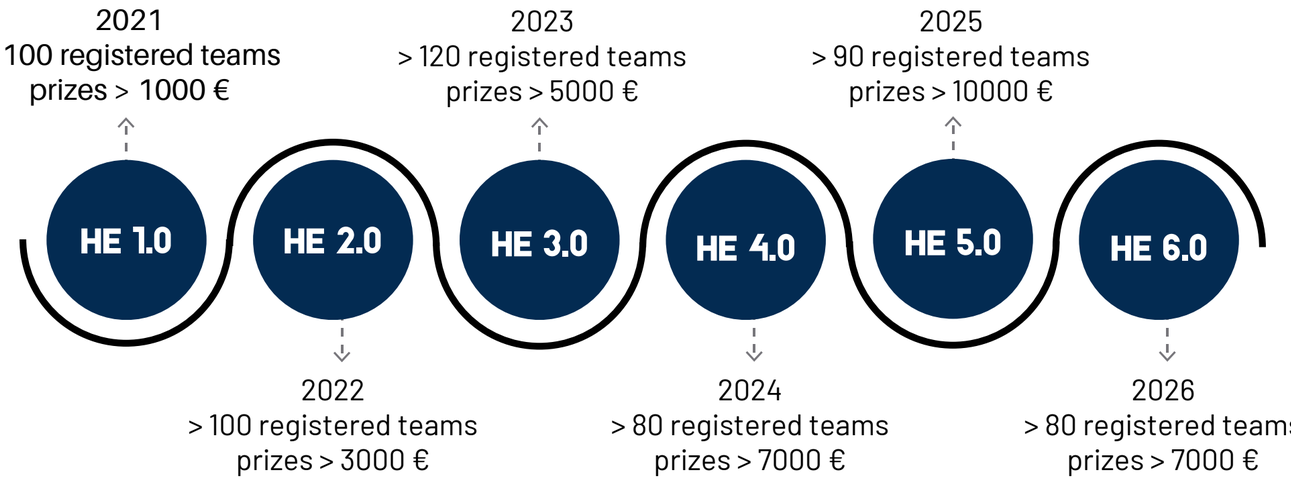
OPPORTUNITIES FOR HIGH SCHOOL STUDENTS



he.upb.ro - National Mobile Programming Competition

- organised in collaboration with Punctul IT and industry partners
- opportunity to be admitted to our faculty through a **place reserved for Olympiad students**



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OPPORTUNITIES FOR HIGH SCHOOL STUDENTS

- Business Tech Simulation
- Hands-on workshops in Virtual Reality (VR), Augmented Reality (AR), Arduino, chatbot development, etc.
- Visits to high schools and presentations of our educational programmes









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Faculty of Engineering in Foreign Languages

STUDENT ASSOCIATIONS AND CLUBS

LS FILS
lsfils

Students' League of the Faculty of Engineering in Foreign Languages

VWI Estiem
vwi.estiem.bucharest

Association of Industrial Engineering and Management Students

Francopoly
Francophone Club francopolyupb

Google Developer Groups
Programming Club gdg.unstpb

RoboForgers
roboforgers

Robotics Club

RoboBadgers
robobadgers

Robotics Club

PoliTalks by FILS
politalks.byfils

The Faculty's Podcast

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EMPLOYMENT OPPORTUNITIES

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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OPPORTUNITIES FOR STUDENTS

Summer internships in companies for third-year students

Collaborations with various companies



More details

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Internship

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OPPORTUNITIES FOR STUDENTS



International agreements

with top universities



International internships

(e.g., Erasmus+) in partner companies and universities



Access to modern laboratories

and research centers, such as the Technological and Managerial Transfer Center or cssnt-upb.ro

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OPPORTUNITIES FOR STUDENTS



Improving foreign language skills

- Technical language courses supported by the **French lecturer** and **German lecturer**, collaboration with the ***French Institute*** and the organization of the ***German language preparatory year***

Scholarships for the french stream

- Internship at the end of the first year of study in Melle, France, scholarships from AUF *(Agence Universitaire de la Francophonie)*, and scholarships offered by the French government *(Eiffel, Copernic)*



Scholarships for the german stream

- DAAD scholarships *(German Academic Exchange Service)*, BAYHOST *(Bavaria)*, Boehme *(TU Darmstadt)*


le saint-maixentais et le mellois

Séjour de découverte pour cinq jeunes Roumains

Avec l'aide de " Roumanie sud Deux-Sèvres ", des stagiaires ingénieurs de l'école polytechnique de Bucarest sont actuellement dans la région.

Support for Certifications

- Courses and certifications in collaboration with our industry partners

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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 and receiving credit for the third-year internship
- **Company Presentations and Visits**
- **Workshops** delivered by industry partners
- **Student Scientific Communication Session**
- etc.

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Faculty of Engineering in Foreign Languages

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.







National University of Science and Technology POLITEHNICA Bucharest
Faculty of Engineering in Foreign Languages

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









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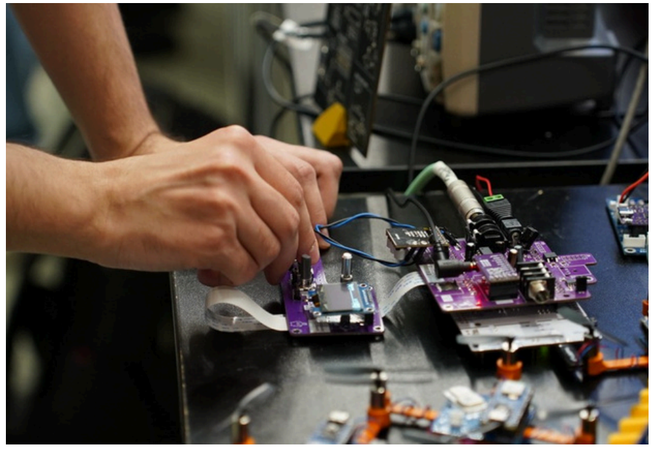
OUR ACTIVITIES IN PICTURES

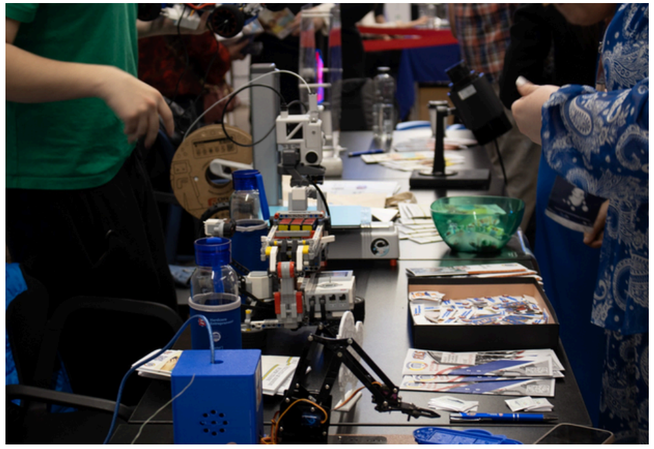












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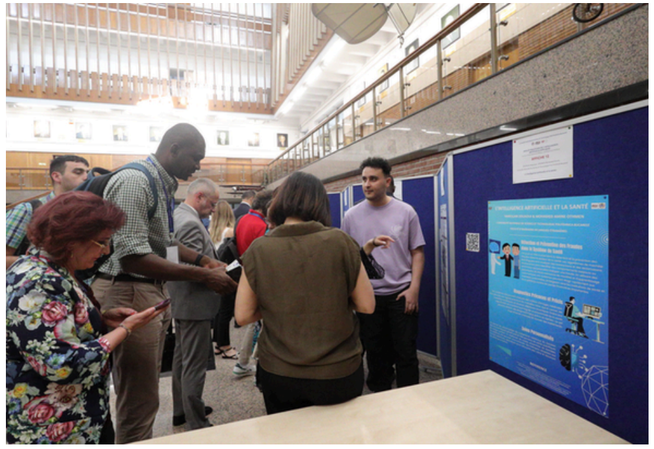
OUR ACTIVITIES IN PICTURES











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POLIFEST


FUTURE




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#POLIFEST #HardcoreEntrepreneur #UPBOficial #FILS #Engineering
#StudentUPB #ElevUPB #ViitoriIngineri, #StrongerTogether
Comment




ROBOFEST
SERIOUS GAMES
& VIRTUAL REALITY
Education
Healthcare
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Simulation
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POLI INTERNATIONAL FEST







POLI INTERNATIONAL FEST

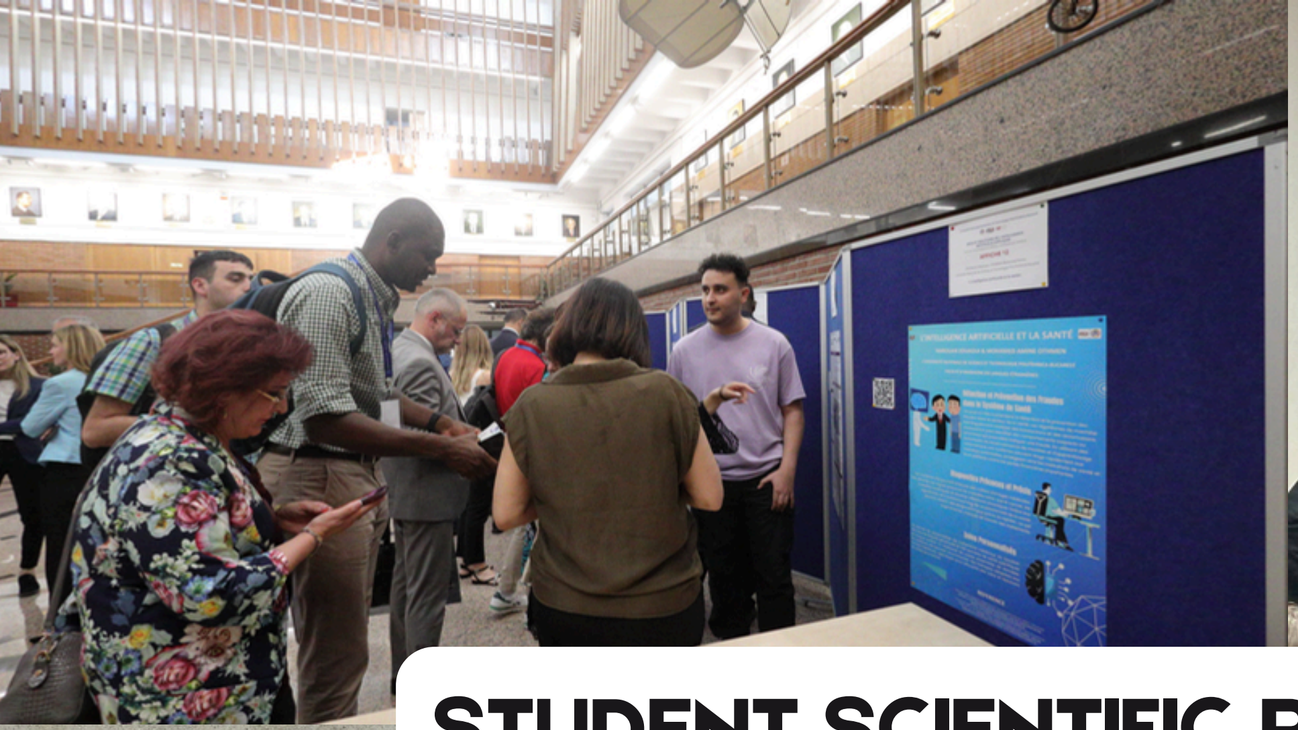




HIGH SCHOOL PRESENTATIONS









STUDENT SCIENTIFIC POSTER COMPETITION









CHRISTMAS TREE PARTY









WORKSHOPS FOR HIGH SCHOOL STUDENTS













HARDCORE ENTREPRENEUR















BACHELOR'S THESIS DEFENCES









GRADUATION CEREMONIES






Public Speaking
Aurelian Glocan, PhD



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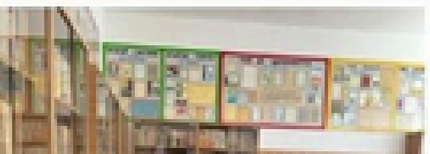

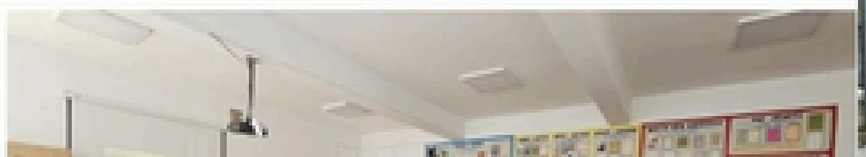






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