

LET'S TALK ABOUT





National University of Science and Technology POLITEHNICA Bucharest









Laboratories



<http://turvirtual.upb.ro/>



Faculty of Engineering in Foreign Languages



FACULTATEA DE INGINERIE ÎN LIMBI STRĂINE



FALS

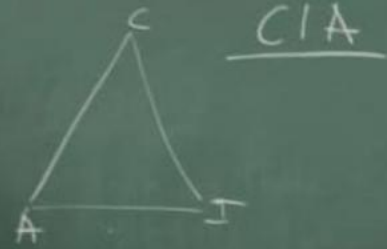
FACULTATEA DE INGINERIE ÎN LIMBI STRĂINE







The Current Landscape and Trends of Cyber Security





National University of Science and Technology POLITEHNICA Bucharest

Faculty of Engineering in Foreign Languages

KEY FIGURES

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language streams



2

departments:
DILS & DCLM

2

language lectureships:
French and German



7

francophone
associations and clubs

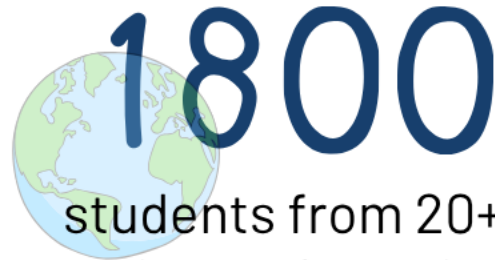
13

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



ENGLISH

Computers and information technology

Information engineering

Internet of things engineering (IoT)

**Electronic engineering, telecommunications
and information technologies**

Mechanical engineering

Chemical engineering



FRANÇAIS

Computers and information technology

Information engineering

Internet of things engineering (IoT)

**Electronic engineering, telecommunications
and information technologies**

Mechanical engineering



DEUTSCH

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

Bachelor's studies **4** years

Master's studies **2** years

German Language Preparatory Year

subsidized by
POLITEHNICA Bucharest



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

Field of study

**COMPUTERS AND INFORMATION TECHNOLOGY, taught in
English or French**

English stream - 4 years – CTI (E)

French stream – 4 years – CTI (F)





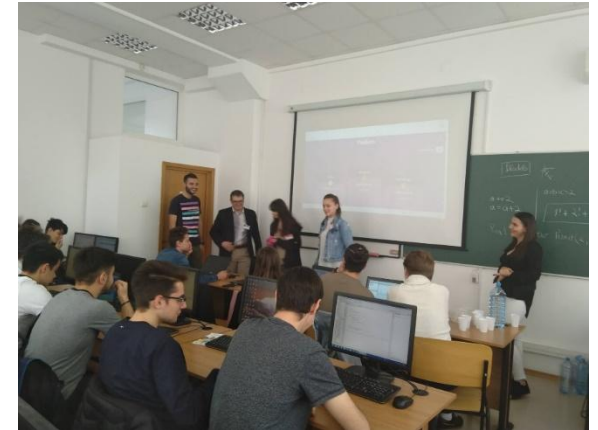
National University of Science and Technology POLITEHNICA Bucharest

Faculty of Engineering in Foreign Languages

THEORETICAL KNOWLEDGE:

The curriculum is provided by the *Department of Engineering in Foreign Languages*, with the support of the teaching staff from all the other faculties of the POLITEHNICA Bucharest, as well as with the support of collaborators from abroad (examples: University of Groningen, Paul Sabatier University Toulouse III, etc.).

Our students acquire skills in three main directions:



- ❖ *general engineering skills (mathematics, physics, chemistry, etc.) and specific to the chosen field (programming languages - Java, object-oriented programming - advanced Java, data structures and algorithms - C, C++, web programming - HTML, CSS, JavaScript, PHP, operating systems - Linux etc) – first 2 years, CTI and IETTI common core;*
- ❖ *skills specific to the specialization (Java Web, programming engineering, artificial intelligence, neural networks, machine learning, deep learning, human-computer interfaces, semantic Web, computer networks, Internet of Things, etc) – years III and IV;*
- ❖ *transversal skills (project management, business administration, economics, communication in modern languages, etc).*

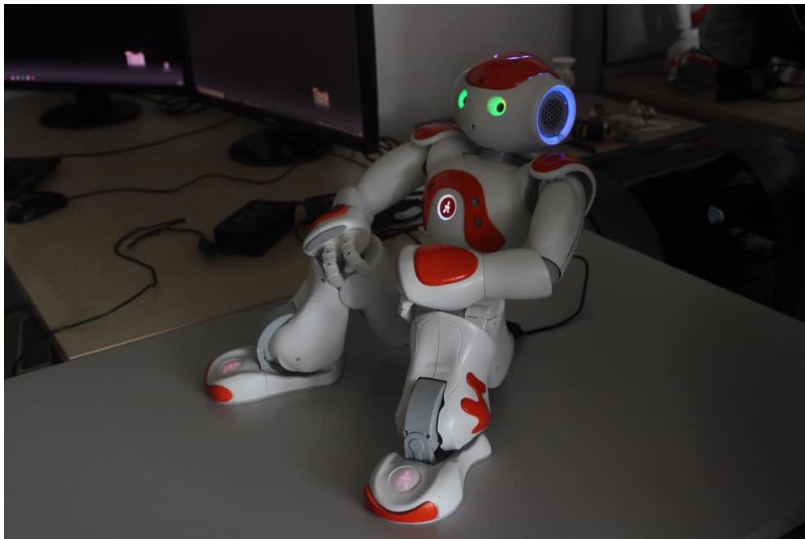


National University of Science and Technology POLITEHNICA Bucharest
Faculty of Engineering in Foreign Languages

Field of study

ELECTRONIC ENGINEERING, TELECOMMUNICATIONS AND INFORMATION TECHNOLOGIES, taught in English, French or German

English stream - 4 years – IETTI (E) French stream - 4 years – IETTI (F) German stream - 4 years – IETTI (G)





National University of Science and Technology POLITEHNICA Bucharest

Faculty of Engineering in Foreign Languages

THEORETICAL KNOWLEDGE:

The curriculum is provided by the *Department of Engineering in Foreign Languages*, with the support of the teaching staff from all the other faculties of the POLITEHNICA Bucharest, as well as with the support of collaborators from abroad.

Our students acquire skills in three main directions:

- ❖ *general engineering skills (mathematics, physics, chemistry, etc.) and specific to the chosen field (basics of circuit theory, electromagnetism, analysis and modeling of fields and circuits, etc.) – first 2 years, CTI and IETTI common core;*
- ❖ *specialization-specific skills (electronic devices and circuits, analog integrated circuits, multiplexed transmission systems, digital circuits and microcontrollers, CAD techniques in the realization of electronic modules, IoT, etc.) – years III and IV;*
- ❖ *transversal skills (project management, business administration, economics, communication in modern languages, etc.).*





National University of Science and Technology POLITEHNICA Bucharest

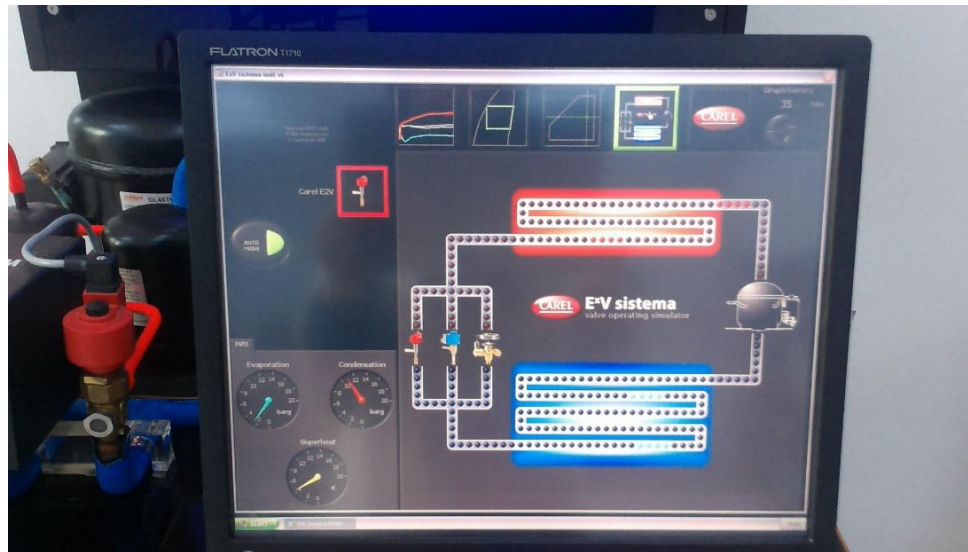
Faculty of Engineering in Foreign Languages

Field of study

MECHANICAL ENGINEERING with teaching in English or French

English stream - 4 years – IM (E)

French stream - 4 years – IM (F)



SKILLS ACQUIRED:

- ❖ *general engineering skills (mathematics, physics, chemistry, etc.) and specific to the chosen field (mechanics, CATIA, MATLAB, strength of materials, etc.)*
- ❖ *skills specific to the specialization (heat transfer, internal combustion engines, turbines, refrigeration and air conditioning installations, tribology, software dedicated to mechanical engineering, hydraulic and pneumatic systems, etc.)*
- ❖ *transversal skills (environmental engineering, business administration, economics, foreign language communication, etc.) .*



Laboratory equipment – Mechanical Engineering – thermal, refrigeration and air conditioning equipment: experimental stands and data processing in dedicated software

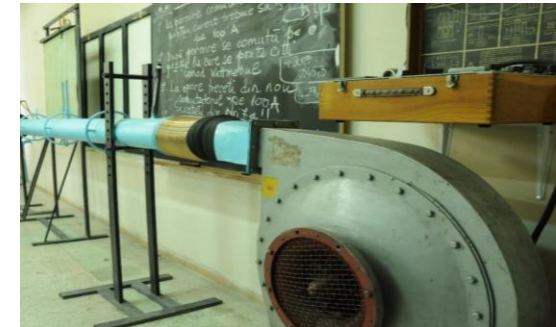
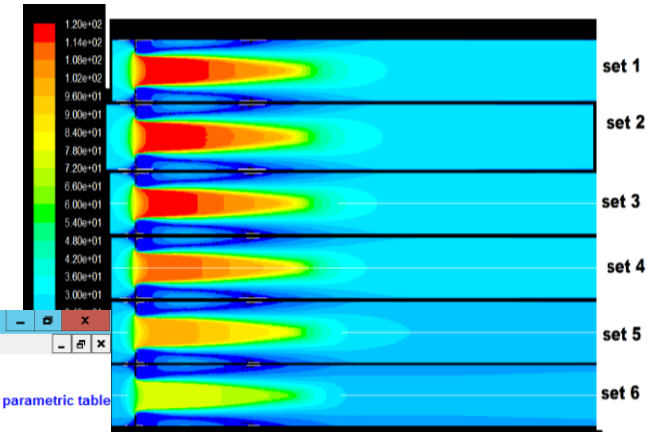
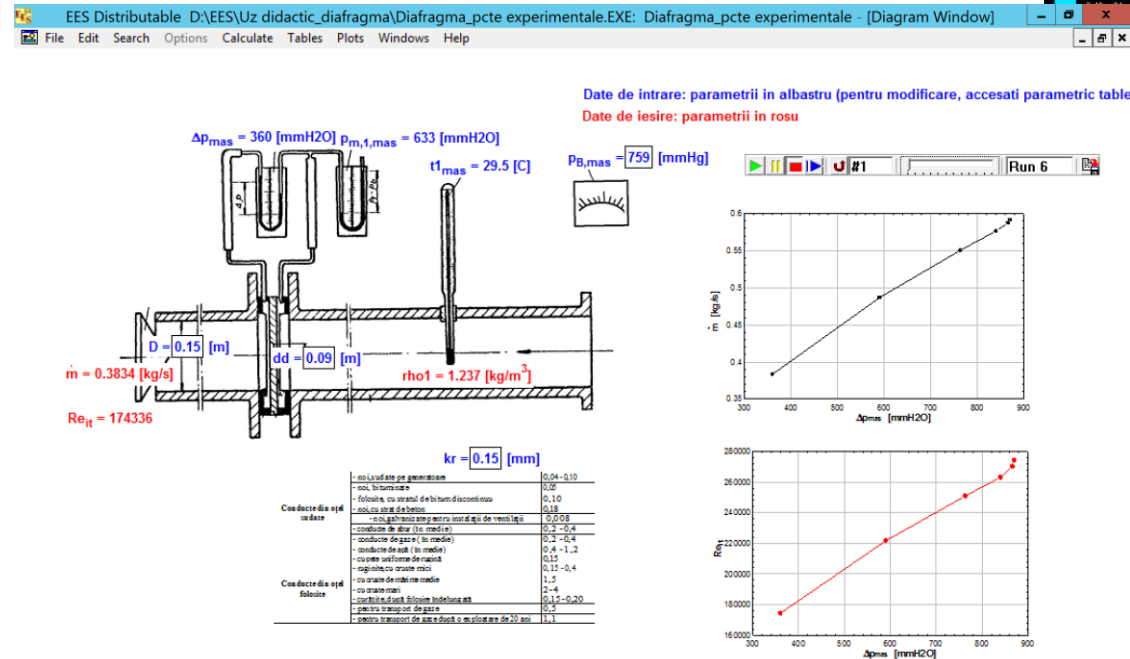


Temperature measurement stand



Pressure measurement stand

Experimental stand for flow measurement + numerical simulation of gas flow

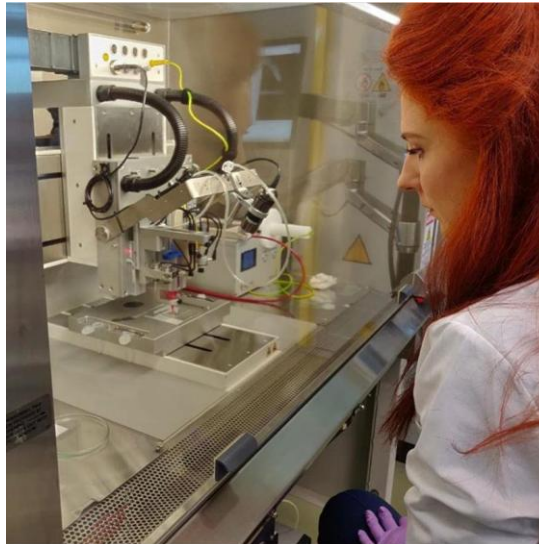




National University of Science and Technology POLITEHNICA Bucharest
Faculty of Engineering in Foreign Languages

Field of study: CHEMICAL ENGINEERING (IC-E)

program in English; 4 years





THEORETICAL KNOWLEDGE:

The IC-E curriculum is implemented by the *Faculty of Applied Chemistry and Materials Science*, so as to provide FILS students with basic knowledge of **chemistry and engineering**.

The subjects studied are grouped into **three main directions**:

- ❖ *fundamental disciplines of Chemistry: Organic/Inorganic Chemistry, Analytical Chemistry, Physical Chemistry*
- ❖ *fundamental disciplines of Chemical Engineering: Organic Materials and Composites, Macromolecular Compounds, Instrumental Analysis in Organic Chemistry*
- ❖ *disciplines in specific areas of Chemical Engineering (years III and IV)*



A. POLYMER SCIENCE*: *Biopolymers & Biocomposites, Polymer Processing, Polymer Recycling*

B. ORGANIC CHEMISTRY*: *Natural Products, Petrochemical and Carbochemical Technology, Surfactants*

** Programs A and B alternate each year*



JOB OPPORTUNITIES:

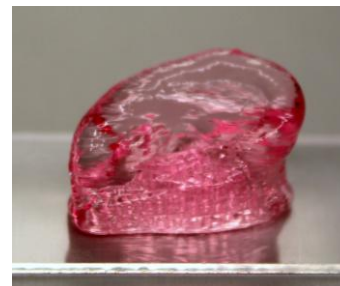
In various fields of **chemical engineering**, such as:



plastic materials industry



polymer recycling



smart biomaterials



rubber industry



petrochemicals



organic chemistry



environmental protection



cosmetics industry



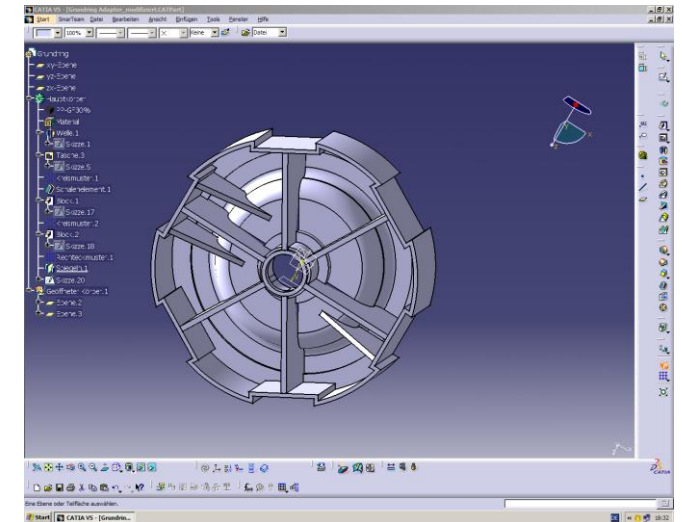
National University of Science and Technology POLITEHNICA Bucharest

Faculty of Engineering in Foreign Languages

Domain: Engineering and Management

Specialization: Economic Engineering in the Mechanical Field

German stream - 4 years





National University of Science and Technology POLITEHNICA Bucharest

Faculty of Engineering in Foreign Languages

Opportunities

Summer internships in companies for third-year students
Collaborations with various companies

THALES



Adobe



UiPath[™]
AGENTIC AUTOMATION

cegedim



endava



More details:



<http://fels.upb.ro>

Internship



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





National University of Science and Technology POLITEHNICA Bucharest

Faculty of Engineering in Foreign Languages

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



UNIVERSITÉ
DE MONTPELLIER



UNIVERSITÉ
CAEN
NORMANDIE



UNIVERSITÉ
**Grenoble
Alpes**



POLITECNICO
DI TORINO



rijksuniversiteit
 groningen



UNIVERSITY
AMSTERDAM

UNIVERSITAT
DE VALÈNCIA



Université
Paul Sabatier
TOULOUSE III

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**

INSTITUT
FRANÇAIS

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)

Support for Certifications

- Courses and certifications in collaboration with our industry partners

DAAD
Deutscher Akademischer Austauschdienst
German Academic Exchange Service



National University of Science and Technology POLITEHNICA Bucharest

Faculty of Engineering in Foreign Languages

Student associations and clubs



ASAFF

 **asaff.ro**

Association of Students and Graduates of the Francophone Branch



VWI Estiem

 **vwi.estiem.bucharest**

Association of Economic Engineers from the German Branch



Francopoly

Francophone club  **francopolyupb**



Google Developer Groups

Programming Club  **gdg.unstpb**



RoboForgers  **roboforgers**

Robotics club



RoboBadgers  **robobadgers**

Robotics club



PoliTalks by FILS  **politalks.byfils**

Faculty podcast



Admission

Admission to FILS



Online registration at: <https://admitere.pub.ro>



More details:



<http://fils.upb.ro>

Admitere



admitere_fils@upb.ro

Domeniu		Triada Facultate-Domeniu-Finantare (FaDoFi)		Portofoliu locuri		Portofoliu total locuri	
		Buget	Taxa	Buget	Taxa	Buget	Taxa
IC (E)	Inginerie chimică - engleză <i>Atentie! Deși admiterea este pentru facultatea de Inginerie în limbi străine, înscrierea și procesarea dosarului se va face prin intermediul facultății Inginerie Chimică și Biotehnologii</i>	ILS-IC(E)-B	ILS-IC(E)-Tx	20		246	100
IETTI (E)	Inginerie electronică, telecomunicații și tehnologii informaționale - engleză	ILS-IETTI(E)-B	ILS-IETTI(E)-Tx	30	5		
IETTI (F)	Inginerie electronică, telecomunicații și tehnologii informaționale - franceză	ILS-IETTI(F)-B	ILS-IETTI(F)-Tx	20	5		
IETTI (G)	Inginerie electronică, telecomunicații și tehnologii informaționale - germană	ILS-IETTI(G)-B	ILS-IETTI(G)-Tx	20	5		
CTI (E)	Calculatoare și Tehnologia Informației - engleză	ILS-CTI(E)-B	ILS-CTI(E)-Tx	60	20		
CTI (F)	Calculatoare și Tehnologia Informației - franceză	ILS-CTI(F)-B	ILS-CTI(F)-Tx	36	5		
IM (E)	Inginerie mecanică - engleză	ILS-IM(E)-B	ILS-IM(E)-Tx	20	5		
IM (F)	Inginerie mecanică - franceză	ILS-IM(F)-B	ILS-IM(F)-Tx		25		
II (G)	Inginerie industrială - germană	ILS-II(G)-B	ILS-II(G)-Tx	20	5		
IMg (G)	Inginerie și management - germană	ILS-IMg(G)-B	ILS-IMg(G)-Tx	20	5		
AnP (G)	An pregătitor de limbă germană ***		ILS-AnP(G)-Tx		20		

Competitions for high school students



Hardcore Entrepreneur Hackathon 4.0
powered by AI

Highlight your app, pitch your plan, conquer every adversity.

7000€ prize pool and the possibility to get into Uni as an olympic*

Sign up until 19th April
he.upb.ro

Online opening on 20th april during Polifest

*check the terms and conditions on our website to find out more

mobile app competition for middle school and high school students



he.upb.ro

- organized in collaboration with Punctul IT and industry partners
- opportunity to **enter our faculty with an olympic spot**



Sponsors





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

Competitions for high school students



Business Tech Simulation



Info - Tel/Whatsapp: 0040-(0)724-445970, Email: cristian.mustata@upb.ro, cristianmustata@yahoo.com

Cum ar fi să fii în boardul de conducere al unei firme cu o cifră de afaceri de peste 100 de Milioane de Euro?



Dacă vrei să experimentezi una dintre cele mai tari simulări de business (e Made in Germany), înscrie-te la Business Tech Simulation 2022.



Activities and events





POLIFEST





ROBOFEST





POLI INTERNATIONAL FEST





POLI INTERNATIONAL FEST



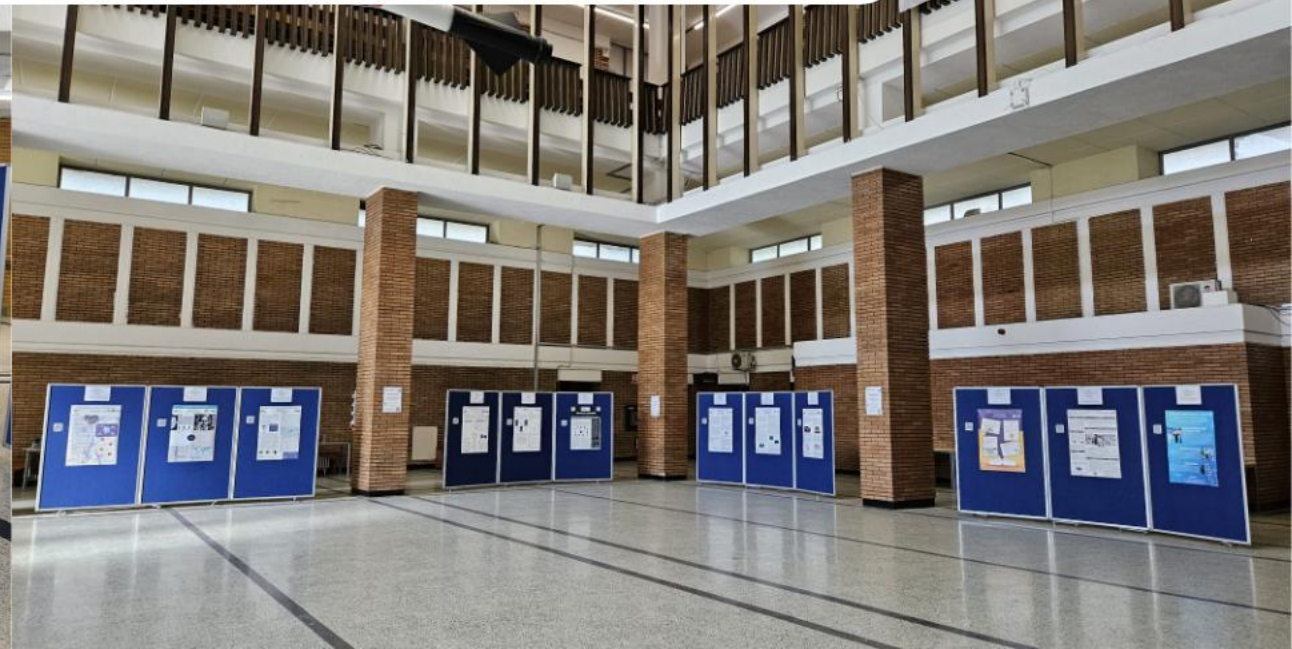


HIGH SCHOOL PRESENTATIONS





STUDENT SCIENTIFIC POSTER COMPETITION





CHRISTMAS TREE PARTY





HIGH SCHOOL WORKSHOPS



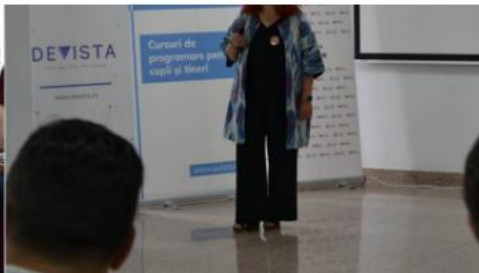
HARDCORE ENTREPRENEUR 5.0

March 6, 2025

Punctul
IT

Cursuri de
programare pentru
copii și tineri

HARDCORE ENTREPRENEUR





BACHELOR'S THESIS DEFENSE





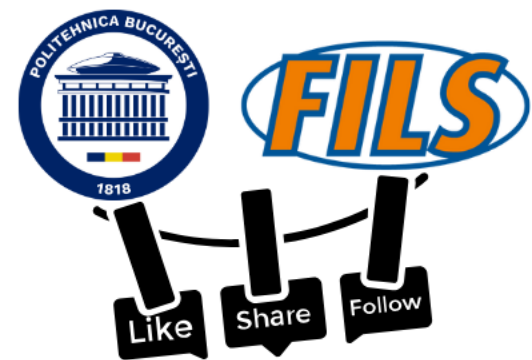
GRADUATION CEREMONIES











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[filsfaculty](https://www.spotify.com/artist/filsfaculty)



<http://fils.upb.ro>



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[faculty-of-engineering-in-foreign-languages-politehnica-bucharest](https://www.linkedin.com/company/faculty-of-engineering-in-foreign-languages-politehnica-bucharest)

Contact

Multă baftă!

Good
Luck

Bonne Chance!

VIEL GLÜCK