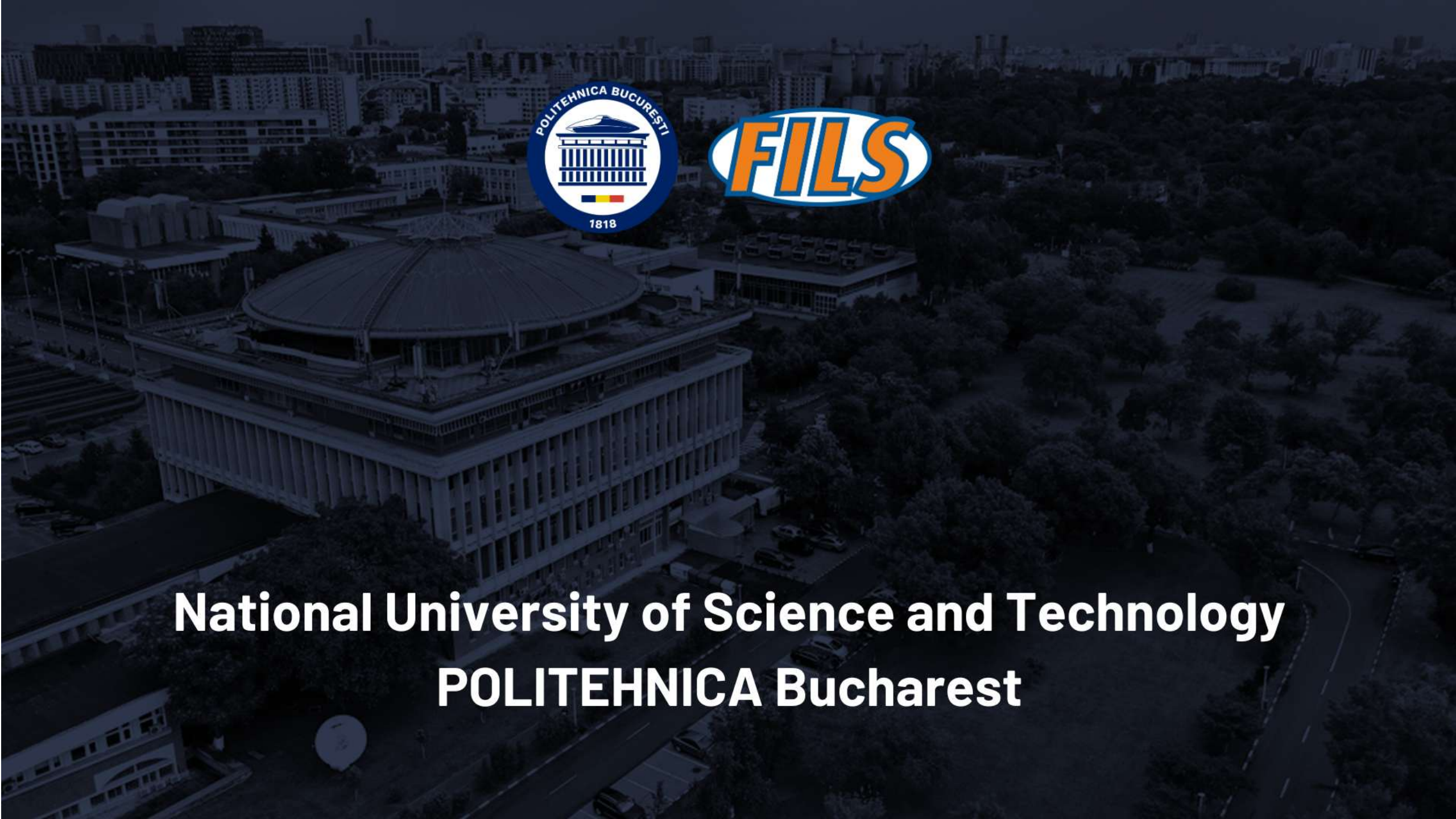
LET'S TALK ABOUT

FILS

POLITEHNICA BUCUREȘTI

1818



National University of Science and Technology POLITEHNICA Bucharest

POLI
AutoFest
POLI
AutoFest

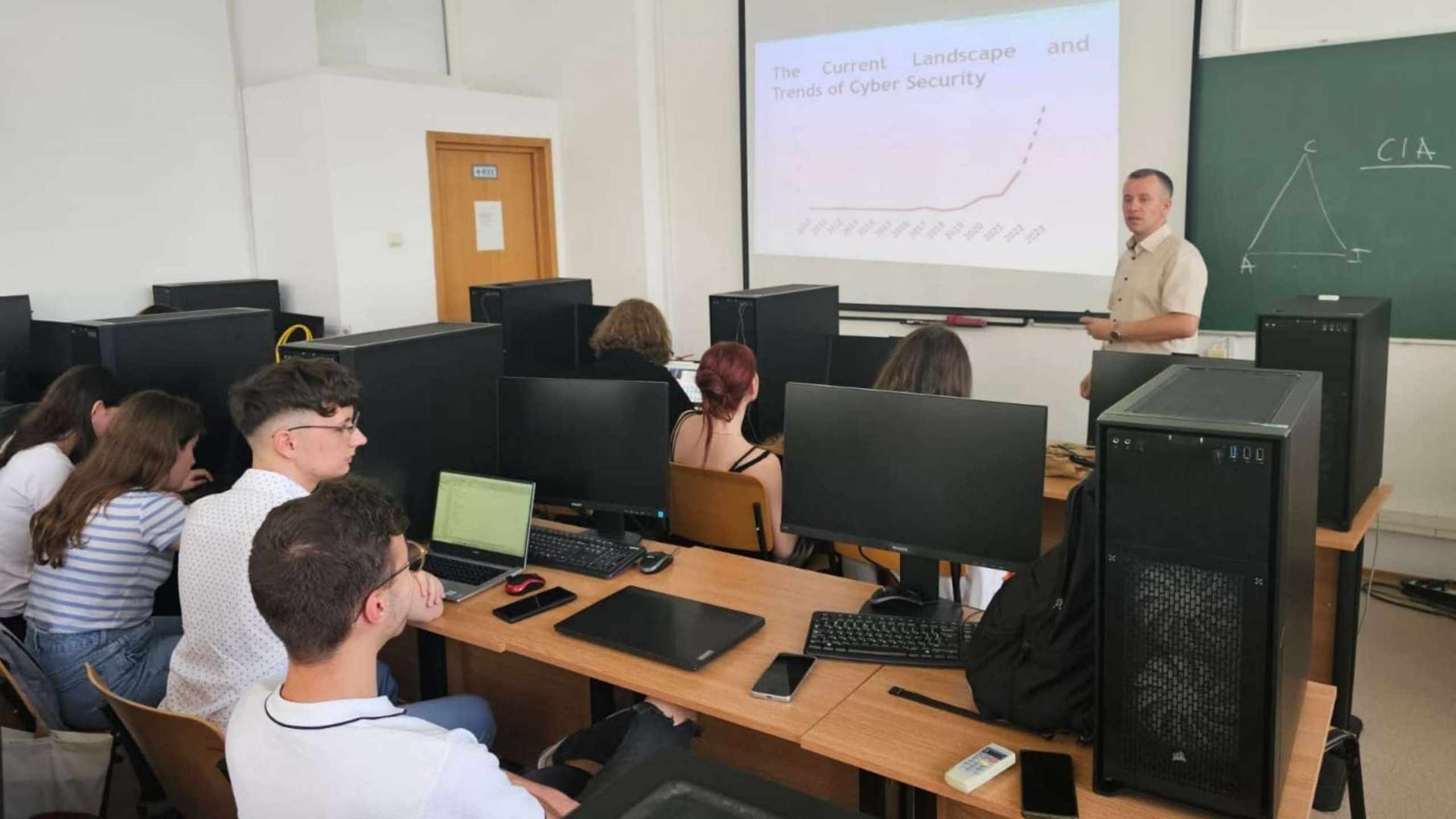
MIKE TYSON
BLACK ENERGY

Laboratories

http://turvirtual.upb.ro/

Faculty of Engineering in Foreign Languages

FILS
FACULTATEA DE INGINERIE ÎN LIMBI STRĂINE


The Current Landscape and Trends of Cyber Security
C
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National University of Science and Technology POLITEHNICA Bucharest
Faculty of Engineering in Foreign Languages

KEY FIGURES

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language streams

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departments:
DILS & DCLM

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language lectureships:
French and German

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francophone
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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)

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).***

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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)

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).***

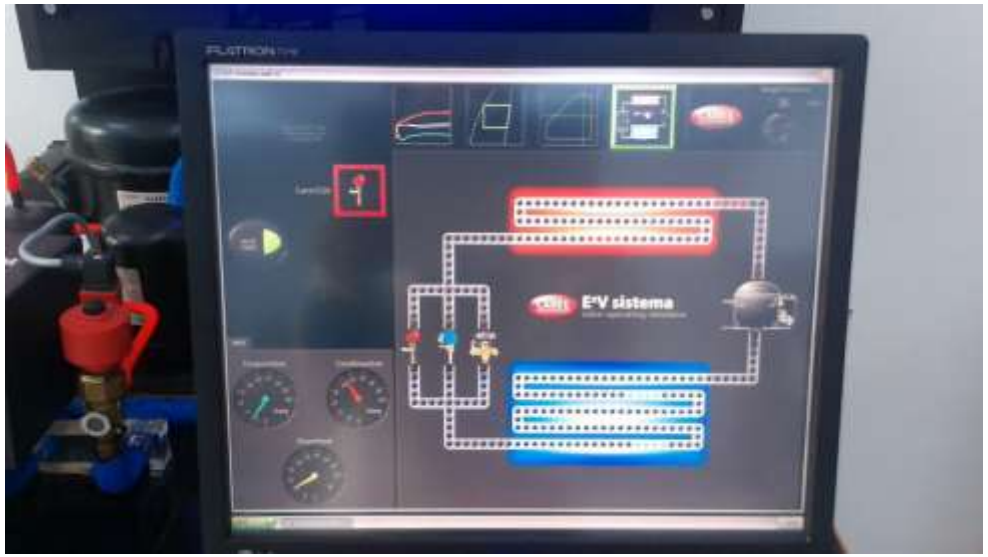
National University of Science and Technology POLITEHNICA Bucharest

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:

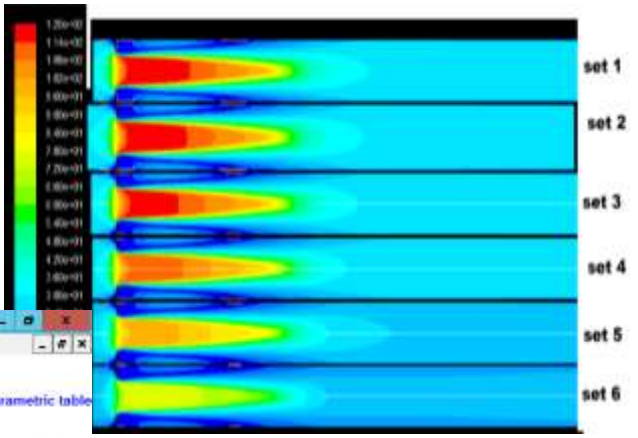
- ***general engineering skills (mathematics, physics, chemistry, etc.) and specific to the chosen field (mechanics, CATIA, MATLAB, strength of materials, etc.)***
- ***skills specific to the specialization (heat transfer, internal combustion engines, turbines, refrigeration and air conditioning installations,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

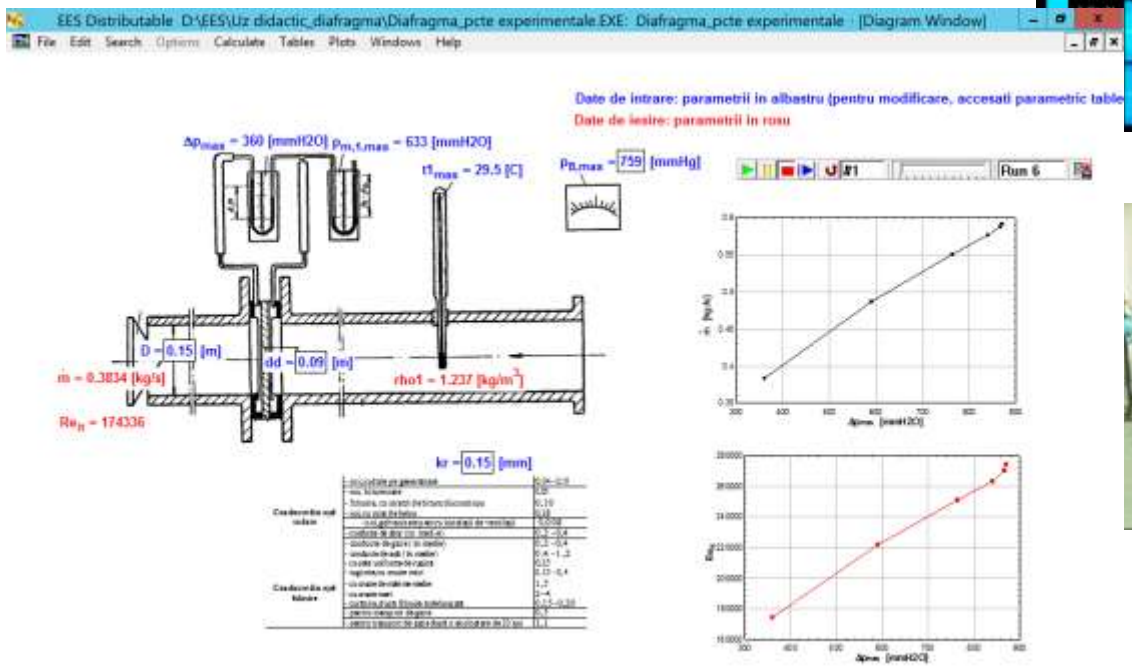
Laboratory equipment – Mechanical Engineering – thermal, refrigeration and air conditioning equipment: experimental stands and data processing in dedicated software

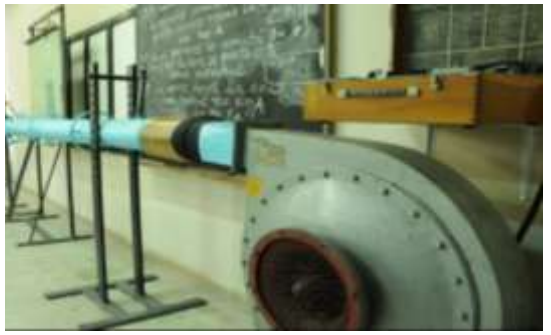
Temperature measurement stand

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*

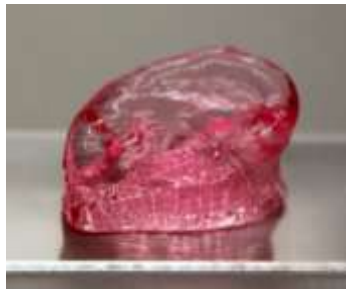
** Programs A and B alternate each year*

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

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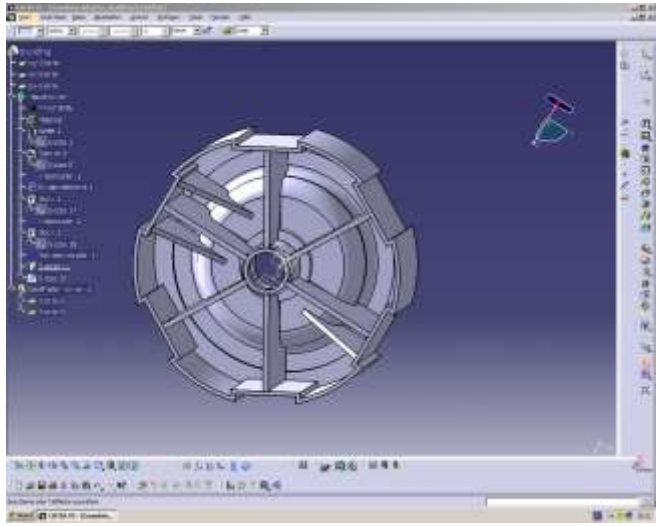
Faculty of Engineering in Foreign Languages

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

More details:

http://fils.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

National University of Science and Technology POLITEHNICA Bucharest

Faculty of Engineering in Foreign Languages

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)*

Support for Certifications

- Courses and certifications in collaboration with our industry partners

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

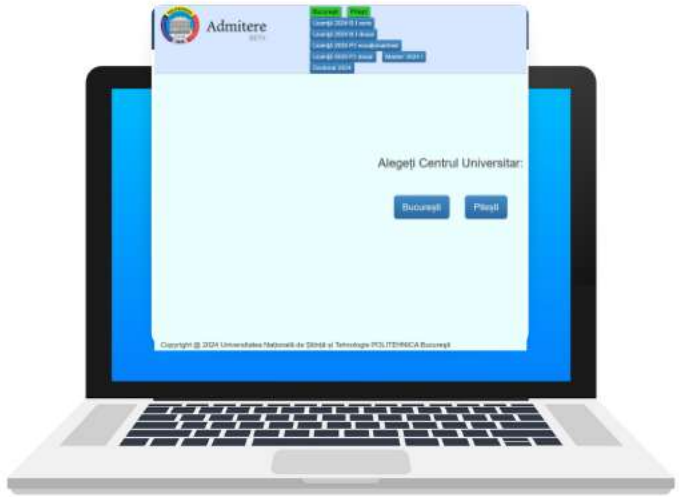
Faculty podcast

Admission

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

Admission to FILS

Online registration at: **https://admitere.pub.ro**



Domeniu		Triada Facultate-Domeniu-Finantare (FaDoFi)		Portofoliu locuri		Portofoliu total locuri	
		Buget	Taxa	Buget	Taxa	Buget	Taxa
IC (E)	Inginerie chimică - engleză *Atentie! Deși admiterea este pentru facultatea de **Inginerie în limbi străine** , înscrierea și procesarea dosarului se va face prin intermediul facultatii **Inginerie Chimica si Biotehnologii***	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		

More details:

http://fils.upb.ro

Admitere

admitere_fils@upb.ro

National University of Science and Technology POLITEHNICA Bucharest

Faculty of Engineering in Foreign Languages

Competitions for high school students

he.upb.ro

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

National University of Science and Technology POLITEHNICA Bucharest

Faculty of Engineering in Foreign Languages

Competitions for high school students

Business Tech Simulation

Info - Email: cristian.mustata@upb.ro,

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 simulari de business (e Made in Germany), înscrie-te la Business Tech Simulation 2022.

Activities and events

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FILS

FILS
Inginerie Mecanică în Limbi Străine
asaff
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FILS
adidas

POLIFEST

FUTURE

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#StudentUPB #ElevUPB #ViitoriIngineri, #StrongerTogether
Comment

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SERIOUS GAMES
& VIRTUAL REALITY
Education
Healthcare
Cooking
Simulation
Sports

ROBOSAURIERS

POLI INTERNATIONAL FEST

POLI INTERNATIONAL FEST
Embassy of Turkmenistan
UiPath
veeam
Google

HIGH SCHOOL PRESENTATIONS

STUDENT SCIENTIFIC POSTER COMPETITION

CHRISTMAS TREE PARTY

HIGH SCHOOL WORKSHOPS

HARDCORE ENTREPRENEUR

BACHELOR'S THESIS DEFENSE

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Rock the stage
Public Speaking
Aurelian Ciocan, PhD

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Multă baftă!

Good luck

Bonne Chance!

VIEL GLÜCK