PETROLEUM-GAS UNIVERSITY OF PLOIESTI EXPERIENCE ACCUMULATED IN ADDRESSING THE CHALLENGES OF THE COVID-19
Mission & Vision

Petroleum-Gas University of Ploiesti sees its mission in realization of the national policy in the sphere of higher education in the best possible way. One of the directions of this policy is creation of a new economy, i.e., economy of knowledge, leadership, and innovation. The key elements of such economy are highly qualified engineers competent with advanced technologies, capable of solving complex industrial tasks.

Our mission, new energy for the future!
History

Petroleum-Gas University of Ploiești was established in Bucharest in 1948, under the name of the Institute of Oil and Gas. The main objective of the institute, from the beginning, was to train specialists with higher education for the main branches of the Romanian oil and gas industry. The establishment of this institution occurred as a natural consequence of the experience of Romanian specialists, of the technical and scientific level of the achievements acquired in the field of oil and gas industry in our country.

In 1992, the Institute of Oil and Gas was transformed into the University of Ploiești. The transition to university status was imposed by the emergence of new faculties and departments in the field of humanities and economics. For a better representation of both the tradition and its modern structure, the name of the University of Ploiești was changed in 1993, to the “Petroleum-Gas” University of Ploiești. Currently, the academic structure of PGU includes 5 faculties: the Faculty of Petroleum and Gas Engineering, the Faculty of Mechanical and Electrical Engineering, the Faculty of Petroleum Technology and Petrochemistry, the Faculty of Economics and the Faculty of Letters and Sciences.
Academic Education- vital to a strong oil industry

In 1948, the Institute of Petroleum, Gas and Geology in Bucharest is established.

Between 1967 and 1974 the Petroleum, Gas and Geology Institute of Bucharest was transferred to Ploiesti without the Faculty of Geology, under the name of Petroleum-Gas Institute of Ploiesti (IPG).

Since 2002, the name of the institution has become Petroleum-Gas University of Ploiesti.
Petroleum-Gas University of Ploiesti organizes:

- Bachelor Programmes;
- Master Programmes;
- Doctoral Programmes;
- Open and Distance Learning Programmes;
- Research and Counselling;
PETROLEUM-GAS UNIVERSITY OF PLOIESTI

University structure

- FACULTY OF OIL AND GAS ENGINEERING
- FACULTY OF MECHANICAL AND ELECTRICAL ENGINEERING
- FACULTY OF PETROLEUM TECHNOLOGY AND PETROCHEMISTRY
- FACULTY OF ECONOMIC SCIENCE
- FACULTY OF LETTERS AND SCIENCES
<table>
<thead>
<tr>
<th>Field of study - Bachelor studies (4 years)</th>
<th>Programme of study</th>
<th>Field of study – Master studies (1,5 years)</th>
<th>Programme of study</th>
<th>Field of study – PhD (3 years)</th>
<th>Programme of study</th>
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</thead>
<tbody>
<tr>
<td>Mines, Oil and Gas (Full-time courses)</td>
<td>Petroleum and Gas Engineering</td>
<td>Hydrocarbons Transportation, Storage and Distribution</td>
<td>Mines, Petroleum and Gas (Full-time courses)</td>
<td>Reservoir Engineering</td>
<td>Petroleum Geology and Reservoir Engineering</td>
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<td>Mines, Petroleum and Gas (Part time courses)</td>
<td>Petroleum and Gas Engineering</td>
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<td>Petroleum Production</td>
<td>Well drilling, Hydrocarbons Production and Transportation</td>
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<tr>
<td>Geology Engineering (Full-time courses)</td>
<td>Petroleum Resources Geology</td>
<td>Geological engineering (Full-time courses)</td>
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<td>Management in the Petroleum Industry</td>
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<td></td>
<td>Technology of Hydrocarbons, Transportation, Storage and Distribution</td>
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<tr>
<td>Field of study - Bachelor studies (4 years)</td>
<td>Programme of study</td>
<td>Field of study – Master (1,5 years)</td>
<td>Programme of study</td>
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<tr>
<td>Mechanical Engineering (Full-time courses)</td>
<td>Petroleum and Petrochemical Equipment</td>
<td>Hydrocarbons Transport and Storage Equipments</td>
<td>Mechanical Engineering (Full-time courses)</td>
<td>Hydrocarbons Transport and Storage Systems Engineering</td>
<td>Mechanical Engineering (Full-time courses)</td>
</tr>
<tr>
<td>Electrical Engineering (Full-time courses)</td>
<td>Hydrocarbon Transportation and Storage Equipments</td>
<td>Mechanical Engineering</td>
<td>Risk management and Engineering Reliability of Petroleum and Petrochemical Equipment</td>
<td>Mechanical Engineering</td>
<td>Mechanical Engineering</td>
</tr>
<tr>
<td>System Engineering (Full/part time courses)</td>
<td>Electromechanics</td>
<td>Engineering Optimal Exploitation of Oilfield Equipment</td>
<td>Management and Production Engineering Equipment Oil and Petrochemical Equipment</td>
<td>Management and Production Engineering Equipment Oil and Petrochemical Equipment</td>
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</tr>
<tr>
<td>Computers and Information Technology (Full-time courses)</td>
<td>Automatic Control and Applied Informatics</td>
<td>Engineering and Management (Full-time/distance courses)</td>
<td>Management and Production Engineering Equipment Oil and Petrochemical Equipment</td>
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<tr>
<td>Engineering and Management (Full-time/distance courses)</td>
<td>Computers Engineering</td>
<td>System Engineering (Full/part time courses)</td>
<td>Advanced Control</td>
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<tr>
<td>Economic Engineering in the Mechanical Field</td>
<td>System Engineering (Full/part time courses)</td>
<td>Advanced Control</td>
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</tbody>
</table>

Advanced Control
<table>
<thead>
<tr>
<th>Field of study - Bachelor studies (4 years)</th>
<th>Programme of study</th>
<th>Field of study – master (1.5-2 years)</th>
<th>Programme of study</th>
<th>Field of study – PhD (3 years)</th>
<th>Programme of study</th>
</tr>
</thead>
</table>
| Chemistry Engineering (Full-time courses) | • Petroleum Processing and Petrochemistry (Romanian and English Language-New)  
• Chemical and Biochemical Processes Informatics and Engineering  
• Food Control and Security | Chemical Engineering (Full-time courses) | • Computer Aided Chemical Engineering Applied in Refineries and Petrochemistry  
• Advanced Technologies for Petroleum Processing | Chemical Engineering | Chemical Engineering |
| Environmental Engineering (Full/part time courses) | Engineering and Environmental Protection in Industry | Environmental Engineering (Full-time courses) | • Advanced Technologies in Environmental Protection Engineering  
• Monitoring of Environmental Agents and Products Quality | | |
# FACULTY OF ECONOMIC SCIENCES

<table>
<thead>
<tr>
<th>Field of study - Bachelor studies (3 years)</th>
<th>Programme of study</th>
<th>Field of study – master (2 years)</th>
<th>Programme of study</th>
</tr>
</thead>
</table>
| Business Administration (Full-time courses) | • Economics of Trade, Tourism and Services  
• Science of Commodities and Quality Management | Business Administration (Full-time courses) | • Business Administration in Petroleum and Gas Industry  
• Administration and Financing of Development Projects  
• Strategies in International Business |
| Economic, Cybernetics, Statistics and Informatics (Full-time courses) | Economic Informatics | Management (Full-time courses) | • Management of Banking System  
• Management of Microeconomic Systems  
• Management of Public Sector |
| Finance (Full-time courses) | Finance and Banking | | • Information Technology for Business |
| Management (Full-time / distance courses) | Management | | |
| Accounting (Full-time / distance courses) | Accounting and Management Information Systems | Economic Informatics (Full-time courses) | |
## Field of study – Bachelor’s Degree
(3 years)

<table>
<thead>
<tr>
<th>Programme of study</th>
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</thead>
<tbody>
<tr>
<td>Language and Literature (Full-time courses)</td>
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<tr>
<td>• Romanian Language and Literature – English Language and Literature</td>
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<tr>
<td>• English Language and Literature – French Language and Literature</td>
</tr>
<tr>
<td>Informatics (Full-time courses)</td>
</tr>
<tr>
<td>• Public Administration</td>
</tr>
<tr>
<td>• Management Assistance and Office Administration</td>
</tr>
<tr>
<td>Administrative Sciences (Full-time courses)</td>
</tr>
<tr>
<td>• Pedagogy of Primary and Preschool Education</td>
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<tr>
<td>• Pedagogy</td>
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</tbody>
</table>

## Field of study – Master’s Degree
(2 years)

<table>
<thead>
<tr>
<th>Programme of study</th>
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</thead>
<tbody>
<tr>
<td>Philology (Full-time courses)</td>
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<tr>
<td>• Concepts and Strategies of Intercultural Communication</td>
</tr>
<tr>
<td>• Romanian Cultural Studies in the European Context</td>
</tr>
<tr>
<td>Computer Science (Full-time courses)</td>
</tr>
<tr>
<td>• Advanced Information Processing Technologies</td>
</tr>
<tr>
<td>Administrative Sciences (Full-time courses)</td>
</tr>
<tr>
<td>• Public Administration and European Integration</td>
</tr>
<tr>
<td>Education Sciences (Full-time courses)</td>
</tr>
<tr>
<td>• School Counselling and Career Development</td>
</tr>
<tr>
<td>• Education Management in the European Context</td>
</tr>
</tbody>
</table>
Main advantages of studying in Romania:

1. Diploma Supplement

   Each graduation Diploma issued by Romanian universities accredited by the Ministry of Education has a unique European Administrative appendix. This document provided in Romanian and in English facilitates the academic and professional recognition of qualifications. It is designed to provide a description of the nature, level, context, content and status of the studies that were successfully completed.

2. Transferable credit system

   A set of regulations ensures recognizing transfer student’s past academic results and achievements.

3. Other advantages

   - Higher education quality assurance
   - International student mobility
   - Lifelong learning
   - Very affordable tuition fees
Petroleum-Gas University of Ploiesti at the COVID-19 pandemic period was forcing to shift rapidly to distance and online learning. Was perfectioned e-learning systems and mobile learning applications because PGU Ploiesti already had distance learning system.
• Petroleum-Gas University of Ploiesti at the COVID-19 pandemic period was forcing to shift rapidly to distance and online learning.

• Was perfectioned e-learning systems and mobile learning applications because PGU Ploiesti already had distance learning system.
DIFFERENCES BETWEEN TRADITIONAL AND ONLINE LEARNING MAY ALSO BE ACKNOWLEDGED IN TERMS OF PRINCIPAL SOURCES OF INFORMATION, ASSESSMENT, OR QUALITY OF EDUCATION

Barriers & Solutions to the development and implementation of online learning

- Skills
- Resources
- Institutional Strategies & Support
- Attitude
The coronavirus pandemic has generated changes in the teaching-learning process in higher education institutions and has influenced the interaction between teachers and students.
OBSTACLES- LEARNING PROCESS

- decreased motivation
- delayed feedback
- feelings of isolation
These obstacles can be overcome

• With the help of teachers who should adapt teaching strategies to the needs of students
• Designed to offer students, teachers, and administrators a system that can help them create an enhanced and customized learning climate, Moodle, Google Classroom.
• Collaborative learning, quick feedback, active learning, task time—encouraging
• Students to allocate more time for completing tasks, high expectations—the teacher should communicate their expectations in order to encourage and motivate students, diversified learning, and technology application
THE BENEFITS OF STUDENT PORTFOLIO PROJECTS

- Students learn to self-reflect
- Students know their mastery level
- Students can see their growth
- Students learn multimedia composition
- It's a chance to celebrate learning
- Students improve in their metacognition
- It increases ownership and agency in the assessment process
- Students share their work with a larger audience
- Students are able to determine next steps
INTERNATIONALIZATION PROCESS

• INTERNATIONAL PROGRAMME FOR RESEARCH DISSEM INATE THE RESULTS IN THE VIRTUAL WORKSHOP
NEW PROJECTS -2020- 2021

• VALIDEX- Experimental testing of higher educational policy intervention opportunities aiming at the implementation or extension of validation practices, and making policy proposals backed up with the pilot policy measure testing results- PARTENERI UNGARIA și SLOVACIA- 600.000 Euro-ERASMUS +

• -KEY ACTION 3
NEW PROJECTS -2020- 2021

• “CONOCO: COping with NO mobility during Corona Virus times: Learning from each other”- ERASMUS +-KEY ACTION 2

• MARTERA -2021 -EcoSMART- Environmentally friendly, advanced coatings for corrosion prevention on offshore structures.

• EEA GRANTS- research programme with NORWAY UNIVERSITIES
• Developing more partnerships and developing joint hybrid and-or digital programmes with universities.
• Internationalisation of higher education (post COVID-19) bring about a hybrid (traditional and digital) or even a strong trend to further develop digital-based programmes.
INTERNATIONAL MOBILITY
MOVE TO DIGITAL LEARNING

• promote learning mobility of individuals and groups;
• promote non-formal and informal learning mobility;
• The COVID-19 crisis shed light on the importance of digital education for the digital transformation that Europe needs. In particular, it emphasised the increased need to harness the potential of digital technologies for teaching and learning and to develop digital skills for all.
In line with the strategic priorities of the Digital Education Action Plan (2021-2027), the Erasmus + Programme aims to support this endeavour to engage learners, educators, youth workers, young people and organisations in the path to digital transformation.
FUTURE

• 19-23 April 2021
Erasmus + Week-International Dimension in Petroleum-Gas University of Ploiesti- virtual network

• ERA-NET Urban Transformation Capacities
• In order to fulfil these objectives, the tools available should be able to cater for new phenomena such as internationalisation of education and growing use of digital learning, and support the creation of flexible learning pathways in line with learners' needs and objectives.
Thank you for your attention!

Questions?