

PETROLEUM-GAS UNIVERSITY OF PLOIESTI



learn to see beyond appearances



# WELCOME TO THE PETROLEUM-GAS UNIVERSITY OF PLOIESTI

## *Discovering the Petroleum – Gas University*

Petroleum-Gas University of Ploiesti was founded in Bucharest in 1948, under the name of Petroleum and Gas Institute. The Institute had, as a main aim, to train the engineers required by the petroleum and gas industry in Romania. The foundation of this institution was mainly based on the history, the tradition and the technical and scientific level of the accomplishments acquired by the petroleum and gas industry in our country. In 1992, the Petroleum and Gas Institute of Ploiesti became the University of Ploiesti, as new faculties and sections in the fields of economic studies and humanities were set up. For a better definition of tradition and structure, in 1993 the University of Ploiesti changed its name into the "Petroleum-Gas" University (PGU) of Ploiesti.

The present academic structure of the Petroleum-Gas University includes five faculties: The Faculty of Petroleum and Gas Engineering, The Faculty of Mechanical and Electrical Engineering, The Faculty of Petroleum Refining and Petrochemistry, The Faculty of Economic Sciences, The Faculty of Letters and Sciences.

Petroleum-Gas University of Ploiesti offers different education programs: university training (for highschool graduates, attending the University faculties), advanced study (for the graduates having obtained their Master degree), open and distance courses (for some of the faculties' specializations), postgraduate courses (for higher education graduates and for specialists in production, design and research), training for highschool teaching degrees (for specialized highschool teachers), doctor's degree stages (for specialists in education, research, design and production) and scientific research and micro-production.

Petroleum-Gas University is a higher education institution with an established and renowned prestige, which was looked for both by Romanian young people and by young people from foreign countries in cooperation relations with Romania.



The degrees granted by the technical faculties have been accepted all over the world.

In the academic year 2005-2006, the PGU restructured the curricula for all its faculties and specializations to meet the European requirements, as they are stipulated in the Bologna Project. Since 2008, The Petroleum-Gas University of Ploiesti has had the highest ranking mark „Institution with the highest level of trust”, from the Romanian Agency for Quality Assurance in Higher Education, after a thorough assessment process.

Research and development (R&D) represents a first step towards world recognition of the Petroleum-Gas University of Ploiesti (PGU). The teaching staff from the PGU strives for a quality-based research work. The university research work goes in two main directions: the development of traditional fields/specializations of our University (technical), on the one hand, and the foundation of newly created specializations, on the other (economic studies and humanities).

The high level of our research activities is proved by the great number of specialists trained in our University who hold, at present, executive positions in Romanian and world industry.

Petroleum-Gas University of Ploiesti has been permanently interested in the strengthening of its international prestige, in increasing student and teaching staff mobility and in supporting recognition of educational programs.



Rector

Prof. Mihai Pascu Coloja PhD

## DISCOVER WHO WE ARE...

Located in Ploiesti, the economic, cultural and social center of Prahova county, the Petroleum-Gas University has become the intellectual core of the city. Its evolution has pursued the scientific, economic and social changes, trying continually to offer its students the best opportunities to learn and grow to meet the demands of their future.

### OUR HISTORY

The more you know about our history, the better you will come to understand our mission and place in the large field of the academic life.

**1948** The University was founded in Bucharest in 1948, under the name of Petroleum and Gas Institute (PGI) and it had at the time two faculties: the Drilling-Production Faculty (later on named the Faculty of Reservoir Engineering and at present the Faculty of Petroleum and Gas Engineering) and the Faculty of Petroleum Refining (later on named the Faculty of Petroleum and Gas Processing and Chemistry and at present the Faculty of Petroleum Refining and Petrochemistry).

**1950** In 1950, the following faculties were added: the Faculty of Oil Machines and Equipment (later on named the Faculty of Technological Equipment, and at present, to better express the field of activity and its specialties, the Faculty of Mechanical and Electrical Engineering), the Faculty of Economics and Organization of Petroleum Industry (it functioned until 1968) and the Faculty of Petroleum and Gas Deposits Geology (later on named the Faculty of Geology due to extending the field of activity after the transfer, in 1957, of the Faculty of Geology from the Geology and Mining Institute of Bucharest).

In 1957, because of these structural modifications, the PGI changed its name into the Petroleum, Gas and Geology Institute (PGGI) of Bucharest.

Between 1967 and 1975, the PGGI of Bucharest was transferred to Ploiesti under the name of the Petroleum and Gas Institute (PGI) except for the Faculty of Geology, which became part of the University of Bucharest in 1975.





In 1968, the short-term (3 years) university training programs were set up, and in 1972, the evening university education programs were started. Between 1978 and 1989, the PGI academic structure practically remained unchanged.

In 1992, the PGI changed its name into the University of Ploiesti and included a new faculty, the Faculty of Letters and Sciences. For a better definition of tradition and structure, in 1993 the University of Ploiesti changed its name into the "Petroleum - Gas" University (PGU) of Ploiesti.

Since 1998, The Teachers' Training Department within the PGU has been delivering courses for teachers' basic and continuous education.

In 2001, the PGU included in its academic programs the Open and Distance Learning courses in the specializations of the University faculties.

In 2002, the PGU included among its faculties the Faculty of Economic Sciences, which took over all the economic specializations formerly organized by the Faculty of Letters and Sciences.

In the academic year 2005-2006, the PGU restructured the curricula for all its faculties and specializations to meet the European requirements in the field of higher education, as they are stipulated in the Bologna Project.

In the field of postgraduate and doctoral studies, the PGU has had a rich tradition ever since 1950 and has got outstanding results.

Between 1966 and 1982, the University organized postgraduate UNESCO courses in Petroleum Geology (1966-1967; teaching language French) and in Petrochemistry (1968-1982; teaching language English).



At present, the University offers the following educational programs:

- bachelor's degree;
- master's degree;
- postgraduate specialization courses for teachers of technological education.

In 2000, the postgraduate College of Economic Arbitration Management was founded.

Ever since 1951, the PGU has organized doctoral studies and it also obtained the right to grant PhD degrees and the title of Doctor Honoris Causa. At present, doctoral studies are organized in the field of Engineering Sciences.

For the academic year 2012-2013, the University has 8600 students and 318 academic staff.

The degrees granted by the technical faculties have been accepted all over the world. Since 1997, the technical faculties have been included in the FEANI index. The graduate can be registered in the FEANI register getting the title of European Master of Science EURING, according to the conditions imposed by FEANI.



## MEET OUR LEADERSHIP

The management of the University is ensured by the University Senate, consisting of 53 members (39 members of the teaching staff and 14 students) meeting periodically. The current administration of the University is ensured by the Administration Council of the University.



Rector  
Prof. MIHAI PASCU COLOJA,  
PhD

Previously held administrative positions:  
Dean of the Petroleum Engineering Faculty,  
Vice-Rector (Vice-President) In charge of Administrative Affairs

Author and co-author of 13 books, 59 articles in specialty reviews (in Romania and abroad), over 28 papers presented at different scientific meetings (in Romania and abroad), 146 research works for various companies.

Member of the National Board for Academic Degree Accreditation, Member of AGIR, Member of SPEROM, Member of the Petroleum Engineers Society (SPE), Member of the National Board for Higher Education Financing.

E-mail: [mpcoloja@upg-ploiesti.ro](mailto:mpcoloja@upg-ploiesti.ro)



President of the Senat  
Prof. ION MĂLUREANU, PhD

Prof. Ion Mălureanu graduated the University of Bucharest in 1975 and received his PhD in 1994 at the same University in Geophysics domain.

Author and co-author of 10 books, 50 articles in specialty reviews (in Romania and abroad), over 40 papers presented at different scientific meetings (in Romania and abroad), 68 research works from various companies.

Member of the National Board for Academic Degree, Member of the National Geophysics Society, Member of the Petroleum Engineers Society, Member of National Committee of World Petroleum Congress.

E-mail: [imalureanu@upg-ploiesti.ro](mailto:imalureanu@upg-ploiesti.ro)



Vice-Rector  
In charge of Academic Affairs  
Prof. NICOLAE PARASCHIV, PhD

Nicolae Paraschiv graduated the Control Engineering Faculty of the Polytechnic University of Bucharest. In 1987 he became PhD in Control Engineering at the Petroleum-Gas University of Ploiesti. Since 1997 he is a full professor at the Control Engineering Department. He was the director of this Department between 2002-2012. Between 1997-2000 he participated at some research internships and trainings to Stuttgart, Trent Nottingham and Paris 12 Universities. Between 2006-2012 he was a visiting professor to the Technical University of Clausthal, as titular of the Process Control Engineering course for the master degree. He is Ph D coordinator in Systems Engineering. He is the author of 4 books and over 80 articles and scientific communications. He is also the coordinator of over 25 research projects and grants. His research domains are: Advanced Automatic Control of Chemical Processes, Smart Control Equipments, Real Time Computing. He is a foundation member of the Automatic Control Engineers Society From Romania (SRAIT) and a member of the Technical Committee on Chemical Process Control within IFAC (International Federation of Automatic Control). He is also member of the Editorial Board of the International Journal of reasoning-based Intelligent Systems-Japan.

E-mail: nparaschiv@upg-ploiesti.ro



Vice-rector  
In charge of Scientific Research  
Prof. ION BOLOCAN, PhD

Ion Bolocan was born in Ciorani/Prahova in 1952. He received his PhD with F. Cuiban in 1988 on interferences of propylene in the thermal decomposition of alkanes. He was a postdoctoral fellow with Professor R. Gleiter (Universität Heidelberg, 1991) and Professor V. Balzani (Università di Bologna, 1997). Ion Bolocan began an academic career at the Petroleum and Gas University of Ploiesti in 1979. In 2003 he was promoted to Full Professor of Organic Chemistry. His research interests concern problems in the thermal decomposition of organic compounds and in the catalytic processes of reduction and oxidation of poliois. Author and co-author of 4 books and over 80 papers published in journals and conference proceedings. He is a member of the Editorial Board of Rev. Chim. (Bucharest).

E-mail: ibolocan@upg-ploiesti.ro



Vice-Rector  
In charge of International Relations  
Assoc. Prof. CRISTIAN MARINOIU, PhD

Previously held administrative positions:  
Scientific secretary of the Letters and Sciences Faculty  
Vice-Dean of the Letters and Sciences Faculty  
Dean of the Letters and Sciences Faculty

Cristian Marinoiu graduated the Faculty of Mathematics, specialization Informatics, from Bucharest University in 1978 and received his PhD in mathematics in 1998 at the same university. Author and co-author of 6 books and 45 papers published in journals and conference proceedings (in Romania and abroad).

E-mail:  
cmarinoiu@upg-ploiesti.ro



Vice-Rector  
In charge of Administrative Affairs  
Assoc. Prof. CORNEL CONSTANTIN LAZĂR, PhD

Previously held administrative positions:  
Manager - National Institute of Statistics - Prahova Statistical County  
Manager - Romanian Foreign Trade Bank BANCOREX – Ploiesti Branch  
Vice Dean of Faculty of Economic Sciences, Petroleum-Gas University of Ploiesti

CORNEL LAZĂR graduated the Faculty of Economic Cybernetic, Academy of Economic Studies from Bucharest in 1981 and the Faculty of Law, University of Bucharest, in 1991. He received the PhD in Economic Cybernetic, in 1998, at the Academy of Economic Studies from Bucharest. His domain of activity and research focuses on the applied statistic in economy and economic forecast. Author and co-author of 8 books, over 40 articles published in national and international speciality reviews, 14 papers presented at international conferences and member or director in 27 national or international research projects (partners: EUROSTAT, World Bank, PHARE, Cornelius University, USA) He is member of the Romanian Society of Statistics (SRS) and of the General Association of Economists from Romania (AGER)

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## FACULTY OF PETROLEUM AND GAS ENGINEERING

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Phone : +40 244 573 171/108; +40 244 576 210, Fax: +40 244 575 847  
Dean: Prof. IULIAN NISTOR, PhD  
E-mail: nistor@upg-ploiesti.ro

## GET TO KNOW US BETTER

The Petroleum-Gas University bases its activity on the concept of putting theory into practice through applied learning experiences.

Students emerge from our academic programs well rounded, with the confidence, the interpersonal skills and the commitment to innovation they need to make a real difference in their professional and personal lives.

We truly believe that our approach to education is the best training students can receive for life and work in a world that is being transformed by the rapid pace of technological change and by the rise of a true global economy.

# 4

### SUBJECTS

Bachelor's degree (4 years) with training programs in the following fields [F] and specializations [S]

MINES, OIL AND GAS [F]

Petroleum and Gas Engineering [S]

Hydrocarbons Transportation, Storage and Distribution [S]

GEOLOGY ENGINEERING [F]

Petroleum Resources Geology [F]

Degree granted BACHELOR OF ENGINEERING

# 1,5

Master's Degree (1.5 years) in the following specialization:

Well Drilling [S]

Petroleum Production [S]

Reservoir Engineering [S]

Technology of Hydrocarbons Transportation, Storage and Distribution

Management in the Petroleum Industry [S]

Petroleum Geology [S]

Degree granted MASTER OF ENGINEERING

# P

Postgraduate programs (4 weeks) in the following specializations:

Reservoir Evaluation

Reservoir Geophysics

Oil and Gas Transportation, Storage and Distribution (1 year)

Advanced Oil Recovery (1 year)

Diploma granted POSTGRADUATE SPECIALIZATION CERTIFICATE

# @

Open and distance learning and part-time learning programs in the following specializations:

Petroleum and Gas Engineering [S]

Degree granted BACHELOR OF ENGINEERING



Graduates' fields of competence and abilities:

1. PETROLEUM: well drilling; drilling muds; fluid production (oil, natural gas, drinking water; industrial, mineral and thermal waters); reservoir engineering; research.

2. GEOLOGY: geological and geophysical investigation in the oil well; geological and geophysical survey; reservoir characterization; hydrogeology; design of exploitation of useful deposits of mineral, fluid and solid substances; engineering geology; geotechnical projects in civil and industrial engineering.

3. TRANSPORT, STORAGE AND DISTRIBUTION: designing and exploitation of transport fluid systems; designing of systems of gas and water supply; design of systems for oil collecting and transporting from fields.

Departments:

- Well Drilling-Hydrocarbons Production and Transportation;
- Geology and Reservoir Engineering.

## FACULTY OF MECHANICAL AND ELECTRICAL ENGINEERING



Address: B-dul Bucuresti 39, 100.680 - Ploiesti, Romania.

Phone +40 244 575 485; + 40 244 573 568/107;

+40 244 573 171/170;

Fax: +40 244 575 847

Dean: Prof. MIHAIL MINESCU, PhD

E-mail: mminescu@upg-ploiesti.ro

Founded in 1950, the Faculty of Petroleum Machines and Equipment, later on named the Faculty of Technological Equipment and then the Faculty of Mechanical and Electrical Engineering, has the following characteristics:

## 4 SUBJECTS

Bachelor's degree (4 years) with training programs in the following fields [F] and specializations [S]

MECHANICAL ENGINEERING [F]

Petroleum and Petrochemical Equipments [S]

Hydrocarbon Transportation and Storage Equipments [S]



ELECTRICAL ENGINEERING [F]

Electromechanics [S]

ELECTRONIC ENGINEERING AND  
TELECOMMUNICATIONS [F]

Applied Electronics [S]

COMPUTERS AND INFORMATICS TECHNOLOGY [F]

Computers [S]

SYSTEMS ENGINEERING [F]

Automatics and Applied Informatics [S]

ENGINEERING AND MANAGEMENT [F]

Economic Engineering in the Mechanical Field [S]

Degree granted BACHELOR OF ENGINEERING

1,5

Master's Degree (1.5 years) in the following specializations:

Advanced Automatics [S]

Optimal Exploitation of Petroleum Equipment for Drilling  
and Extraction [S]

Engineering of Hydrocarbons Transportation and Storage  
Systems [S]

Risk Management and Reliability Engineering of Petroleum  
and Petrochemical Equipment [S]

Degree granted MASTER OF ENGINEERING



Open and distance learning and part-time learning (4  
years) programs in the following specializations:

Economic Engineering in the Mechanical Field [S]

Automatics and Applied Informatics [S]

Degree granted BACHELOR OF ENGINEERING



Graduates' fields of competence and abilities:

- Research, design and construction of technological equipment and installations for drilling - production works, for refineries and petrochemical plants, for oil and gas products transportation and storage;
- Research, design and construction of electrical and electronic industrial installations, of automation and measurement electronic equipment, of electric drive control equipment or of automation equipment;
- Management of equipment and technological plants, manufacturing and maintenance in oil industry;
- Monitoring and automatic control of the industrial processes (in oil industry, chemical and petrochemical industry, and machine building industry), use, programming and maintenance of the industrial robots and of robots flexible lines.

Departments:

- Automatics, Computers and Electronics;
- Mechanical Engineering.



#### FACULTY OF PETROLEUM REFINING AND PETROCHEMISTRY

Address: B-dul Bucuresti 39, 100.680 - Ploiesti, Romania.  
Telefon: +40 244 576 211, + 40 244 573 171/157;  
Fax: 40 244 575 847  
Dean: Prof. PAUL ROSCA, PhD.  
E-mail: prosca@upg-ploiesti.ro

Founded in 1948, the Faculty of Petroleum Refining and Petrochemistry was transferred to Ploiesti in 1975.

Prestigious professors have trained more than 6,850 graduates (660 from 68 countries) who work in refineries, petrochemical plants, in schools and universities, in research and design companies all over the world.

#### SUBJECTS

**4** Bachelor's degree (4 years) with training programs in the following fields [F] and specializations [S]:

CHEMICAL ENGINEERING [F]

Petroleum Processing and Petrochemistry [S]

Informatics of Chemical and Biochemical Sistems[S]

ENVIRONMENTAL ENGINEERING [F]

Environmental Engineering in Industry [S]

Degree granted BACHELOR OF ENGINEERING

**1,5** Master's Degree with training programs in the following fields [F] and specializations [S]:  
CHEMICAL ENGINEERING [F]  
Advanced Technologies in Petroleum Processing[S]  
Computer Assisted Chemical Engineering in Refineries and Petrochemistry[S]  
ENVIRONMENTAL ENGINEERING [F]  
Advanced Technologies in Environmental Engineering[S]  
Degree granted MASTER OF ENGINEERING

**2** Master's Degree with training programs in the following fields [F] and specializations [S]:  
ENVIRONMENTAL ENGINEERING [F]  
Control and monitoring of environmental agents and products quality  
Degree granted MASTER OF ENGINEERING

**@** Open and distance learning programs in the following fields [F] and specializations [S]:  
ENVIRONMENTAL ENGINEERING [F]  
Environmental Engineering in Industry [S]  
Degree granted BACHELOR OF ENGINEERING

**P** Postgraduate courses  
Advanced Technologies in Petroleum Refining  
Manufacturing of the Ecological Petroleum Products  
Pollutants in petroleum refining and petrochemistry  
X-Ray analyses used in petroleum refining and petrochemistry processes

Graduates' fields of competence and abilities:

- Process development, process design and manufacturing in the petroleum and petrochemical industries, chemical engineering including materials, biotechnology, environment and energy-related industries.
- Graduate studies in chemical engineering, environmental engineering and applied industrial informatics.
- Graduate studies in fields outside engineering, including management, law and business administration

Departments:

- Chemistry;
- Engineering of Petroleum Processing and Environmental Protection



## FACULTY OF ECONOMIC SCIENCES

Address: B-dul Bucuresti 39, 100.680 - Ploiesti, Romania.  
Phone: + 40 244 573 171, +40 244 573 568,  
+40 244 575 771;  
Fax: +40 244 575 847, Fax, +40 244 575 771  
Dean: Assoc. Prof.Eftimie Mariana, PhD  
E-mail: stec@upg-ploiesti.ro

In 1992, the Faculty of Economics started like a department of the Faculty of Letters and Sciences. Our faculty has had the mission of educating specialists in an economic spirit and disseminating the economic culture among the public, so that our everyday strategic decisions be informed and rational. The profound reform process has led to the complete change of the curriculum, the formation of a new organizational structure and the development, especially qualitative, of the teaching staff. To meet our efforts and expectations, to make the emblem and the obvious form of the school fit the important structural changes in the latest years, the faculty council decided, at the end of 2002, that the adequate name should be that of the FACULTY OF ECONOMIC SCIENCES.

# 3

### SUBJECTS

Bachelor's degree (3 years) with training programs in the following fields [F] and specializations [S]

MANAGEMENT [F]

Management [S]

ACCOUNTANCY [F]

Accountancy and Administration Informatics [S]

BUSINESS ADMINISTRATION [F]

Science of Commodities and quality management [S]

Economy of Trade, Tourism and Catering [S]

FINANCE [F]

Finance and Banking [S]

ECONOMIC CYBERNETICS, STATISTICS AND INFORMATICS [F]

Economic Informatics[S]

Degree granted BACHELOR OF ECONOMICS



# 2

Master's degree (2 years) with training programs in the following fields [F] and specializations[S]:

MANAGEMENT [F]

Management in Microeconomics Systems [S]

Management in Public Systems [S]

Management in Banking Systems [S]

BUSINESS ADMINISTRATION [F]

Investments Projects Administration and Financing [S]

Strategy and International Affairs [S]

Degree granted: MASTER OF ECONOMIC SCIENCES



Open and distance learning programs (3 years):

MANAGEMENT [F]

Management [S]

ACCOUNTANCY [F]

Accountancy and Administration Informatics [S]

Degree granted: BACHELOR OF ECONOMICS

Graduates' field of competence and abilities:

1. The graduates can solve economic, legal, didactic, secretarial problems at a microeconomic level concerning both the regular and the synthesis activities.
2. Graduates have the knowledge and skills to participate in solving research problems.

Departments:

- Economy, Marketing and Business Administration;
- Management, Accountancy and Finances;
- Modeling, Economics Analysis and Statistics.







## FACULTY OF LETTERS AND SCIENCES

Address: B-dul Bucuresti 39, 100680 - Ploiesti, Romania.  
Phone: 40 244 575 661; 40 244 573 171 / 246, 244  
Fax: 40 244 575 847  
Dean: Assoc. Prof. ANCA MIHAELA DOBRINESCU, PhD  
E-mail: adobrinescu@upg-ploiesti.ro

The Faculty of Letters and Sciences offers full-time 3-year undergraduate courses as well as graduate and postgraduate courses, training specialists in fundamental sciences and humanities.

Since its setting up, in 1992, the faculty's constant interest has been to enrich its offer of studies and increase the quality of both its staff and students.

# 3

### SUBJECTS

Bachelor's degree (3 years) with training programmes in the following fields [F] and specializations [S]:

#### LANGUAGE AND LITERATURE [F]

Romanian Language and Literature – English Language and Literature [S]

English Language and Literature – French Language and Literature [S]

Degree granted BACHELOR OF ARTS

#### ADMINISTRATION SCIENCES [F]

Public Administration [S]

Management Assistance and Office Administration [S]

Degree granted BACHELOR OF ARTS

#### MATHEMATICS [F] - Mathematics [S]

Degree granted BACHELOR OF SCIENCE

#### INFORMATICS [F] - Informatics [S]

Degree granted BACHELOR OF SCIENCE

#### CHEMISTRY [F] - Chemistry [S]

Degree granted BACHELOR OF SCIENCE

#### EDUCATION SCIENCES [F]

Pedagogy of Primary and Pre-school Education [S]

Pedagogy [S]

Degree granted BACHELOR OF EDUCATION



## MASTER'S DEGREES

### LANGUAGE AND LITERATURE - Graduate School

Romanian Cultural Studies in the European Context, 4 semesters

Concepts and Strategies of Intercultural Communication, 4 semesters

### ADMINISTRATION SCIENCES - Graduate School

Public Administration and European Integration, 4 semesters

### EDUCATION SCIENCES - Graduate School

School Counselling and Career Development, 4 semesters

Education Management and European Integration, 4 semesters

Performance for Teachers' Training in The Knowledge Society, 4 semesters

### INFORMATICS - Graduate School

Advanced Information Processing Technologies, 4 semesters

Graduates' field of competence and abilities:

- The graduates are trained to become preschool and primary school teachers, to teach Romanian Language and Literature, English Language and Literature, French Language and Literature, Chemistry, Mathematics, Informatics at elementary and high school level;
- Graduates have the knowledge and skills to carry out research;
- Graduates are trained to become experts in Philology, Education Sciences, Mathematics, Informatics, Chemistry, Office Administration, Public Administration.

Departments:

- Philology;
- Education Sciences;
- Information Technology, Mathematics and Physics;
- Preparatory School.

# PhD PROGRAMS

## PhD PROGRAMS

As the PETROLEUM-GAS UNIVERSITY of PLOIESTI believes research is crucial to sustain quality in Higher Education to ensure access to the best techniques and practices for industry and business, the following PhD programs are developed.

Engineering Sciences:

- Mines, Petroleum and Gas;
- Mechanical Engineering;
- Industrial Engineering;
- Chemical Engineering;
- Systems Engineering

Sciences:

- Chemistry.

## Ph.D. PROGRAMS

**Ph.D. Program duration:** 3 years, full-time activity



### STRUCTURE:

Training period:

- Advanced university training program-2 semesters (1 year);
- Scientific-research program 4 semesters (2 years).
- 5 specialty examinations.
- Elaboration and public defense of 3 scientific reports concerning the theme of the thesis.

### Preparing the Ph.D. Thesis

- carrying out theoretical-experimental research concerning the doctor's degree theme.
- writing the final report.

### Finishing up the activity

- defense of the Ph.D. thesis in public session, before a specialist examination board.

The scientific title and degree of DOCTOR/Ph.D. is awarded.



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## **ENGINEERING SCIENCES - Mines, Oil and Gas**

Prof. Dr. Eng. Mihai Pascu Coloja  
Prof. Dr. Eng. Iulian Nistor  
Prof. Dr. Eng. Lazăr Avram  
Prof. Dr. Eng. Florea Mînescu  
Prof. Dr. Eng. Mihai Gheorghitoiu  
Prof. Dr. Eng. Cornel Trifan  
Prof. Dr. Eng. Marcela Pătârlăgeanu

## **ENGINEERING SCIENCES**

### **Mechanical Engineering**

Prof. Dr. Eng. Vlad Ulmanu  
Prof. Dr. Eng. Gheorghe Zecheru  
Prof. Dr. Eng. Alexandru Pupazescu  
Prof. Dr. Eng. Nicolae Napoleon Antonescu  
Prof. Dr. Eng. Alexandru Popovici  
Prof. Dr. Eng. Ioan Tudor

### **Industrial Engineering**

Prof. Dr. Eng. Alecsandru Pavel

### **Systems Engineering**

Prof. Dr. Eng. Nicolae Paraschiv  
Prof. Dr. Eng. Mihaela Oprea  
Prof. Dr. Eng. Stelian Dumitrescu

## **ENGINEERING SCIENCES**

### **Chemical Engineering**

Prof. Dr. Eng. Ion Bolocan  
Prof. Dr. Eng. Dragoș Ciuparu  
Prof. Dr. Eng. Vasile Matei  
Prof. Dr. Eng. Ion Onuțu  
Prof. Dr. Eng. Florin Oprea  
Prof. Dr. Eng. Paul Roșca

## **SCIENCES - Chemistry**

Prof. Dr. Chem. Octav Pânteia



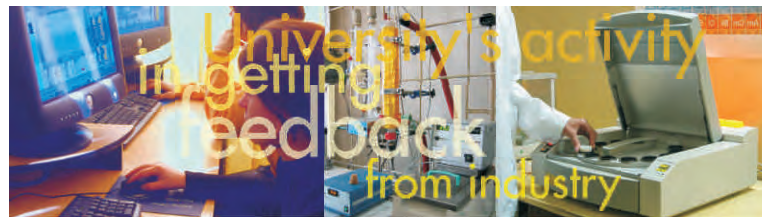
The society's development is mainly determined by the performance of its educational process as this process leads to the training of specialists. A highly efficient academic system presupposes an existing high level of scientific research, based on a research-teaching synergy and expert trainers in the teaching and research process. Research and development (R&D) represents a first step towards world recognition of the Petroleum-Gas University of Ploiesti (PGU). The teaching staff from the PGU strives for a quality-based research work. Their research work goes in two main directions, the development of traditional fields/specializations of our University, on the one hand, and the foundation of newly created specializations, on the other.

## Research profile

Our research activity includes scientific research programs in the traditional fields such as natural resources, products and industrial technologies, chemistry, engineering, but also in multidisciplinary fields such as information technology, environmental technology.

Our main research fields are:

- Well drilling, oil and natural gas production, reservoir engineering, fluid mechanics and hydraulics, fluid transportation and storage, petroleum geology, applied geophysics, mineralogy-petrography (Faculty of Petroleum and Gas Engineering);
- Oil field, petrochemical and refining equipment design and construction, oil equipment reliability and maintenance, tribology, machine-tools and mechanical processing, automation of chemical, drilling and distribution processes, electrical equipment and plants, applied electronics (Faculty of Mechanical and Electrical Engineering);
- Chemical reactions kinetics, catalysts, chemical processes engineering, modern technologies for refining and petrochemistry, clean technologies, simulation and optimization of chemical processes, organic syntheses, corrosion (Faculty of Petroleum Refining and Petrochemistry);
- Economics, economic analysis, finances, accounting, feasibility studies, management, quality management, project management, marketing, marketing research, statistics and informatics in economy, business administration, economic international relations (Faculty of Economic Sciences);
- Law, fundamental research in languages and literatures, mathematics, chemistry, physics, pedagogy, teaching, informatics (Faculty of Letters and Sciences).



One should take into consideration the fact that the research activity presupposes, besides a highly trained research team, permanent financing. Our professors play an important role in obtaining new funds, which allow highly efficient research work.

Thus, the present research activity carried out is based on three main financing sources:

- government budget-programs, which are competition based;
- direct contracts with companies;
- external financing within European Programs.

We are very proud of our results. By using multidisciplinary laboratories, the research outputs in terms of patents and publications have increased.

Research outputs are published in national and international scientific journals; they are also published in our scientific journal „The Bulletin of the Petroleum Gas University of Ploiești”, a scientific publication internationally recognized which has already been the object of international publication exchange agreements.

A large part of R&D implies and lead to the elaboration of doctoral theses; our University provides an important number of doctor's degree supervisors.

Most of the graduates who have completed their doctoral theses under the supervision of our professors come from other countries all over the world.

Among the important outputs of R&D, cooperation with the industry and the society represents an essential part of our University's activity in getting feedback from industry and society to academia and in bringing technology and competences to the end-user.

The high level of our research activities is proved by the great number of specialists trained in our University who hold, at present, executive positions in Romanian and world industry. Our graduate students have successfully taken part in scientific research clubs coordinated by the teaching staff.



## OUR LIBRARY

The Library plays a vital role in supporting teaching, learning and research in the University. It holds more than 286,500 volumes.

In the large reading room with more than one hundred and forty places, modernized by being endowed with computer network and air conditioning, the students and the professors have the possibility, by free access to the shelf, to consult more 46,600 volumes.

The second reading room, destined to the periodicals, facilitates the contact with the latest news from the requested fields due to the most famous reviews and journals from our country and abroad.

The readers benefit of home loan service, which includes more than 20,500 handbooks, lab guides and books from all areas of knowledge.

The volumes acquired and processed after 1995 can be accessed using the on-line catalogue, following the link: <http://www.upg-ploiesti.ro/campus/biblioteca/index.html>.

The users also have the possibility to get information from other library resources by using our library computer network, which is connected to the Internet.

The library helps its readers by its own publications; it contributes to the elaboration of some bibliographical specialty research.

Our special concern is to continually enrich the library's collections with treatises, handbooks, by purchasing valuable books from our country or from abroad.

All these turn the Library of Petroleum Gas University of Ploiești into a real 'laboratory' of our intellectual life.

The Petroleum-Gas University of Ploiesti has identified an internationally based mission throughout the academic years.

## OUR INTERNATIONAL DIMENSION

The Department of International Relations has an important role to play in the internationalization of the University, in increasing student and teaching staff mobility and in supporting recognition of educational programs.

Our University has introduced the European Credit Transfer System (ECTS) in our faculties, based on transparency of study programs and students' achievement.

The University has developed, over several years, schemes for student exchange due to special arrangements (cooperation agreements and bilateral agreements) with more than 60 countries. More than 3,000 (3057 until 2008) have graduated in our University, taking into consideration that the degrees granted by the technical faculties are accepted all over the world, and at present they occupy leading positions in famous companies from their own countries.

Between 1966 and 1982, postgraduate UNESCO courses were organized in the speciality of Petroleum Geology (1966-1967), in French and Petrochemistry (1968-1982), in English.

We have strong relationships with educational institutions all over the world by means of cooperation agreements (Tyumen State Oil and Gas University- Russia, Universidad de Granada Campus de Melilla Facultad de Education y Humanidades -Spain, Magallanes University-Chile, National Technical University "Kharkiv Polytechnic Institute"-Ukraine, The Institute of Agricultural Economies-Serbia, Norwegian University of Science and Technology-Norway, The AGH University of Science and Technology-Poland, Université de Bretagne Sud-France, Technical University of Varna-Bulgaria, Luiss Guido Carli University-Italy, Université Paris X II-France, Université de Poitiers-France, Politechnical Institute of Setubal-Portugal, Saint-Petersburg State Mining Institute-Russia, Baku State University-Azerbaijan, University of Petroleum-East China, Majilis Amanah Rakyat-Malaysia,



Université de Rouen-France, Ivano-Frankivsk National Technical University of Oil and Gas-Ukraine, Daqing Petroleum Institute-China) and bilateral agreements (University Of Portsmouth-England, Université Paris XII-France, Université Bretagne Sud-France, Université Blaise Pascal Clermont Ferrand-France, Universidad Jaume I-Spain, Universidad Alcalá-Spain, Universidad Oviedo-Spain, Universidad Castilla la Mancha-Spain, Technische Universität Clausthal-Germany, University of Athens-Greece, Democritus University of Thrace-Greece, Hogeschool University of Utrecht- Nederland, Pamukkale University-Turkey, Università di Bari-Italy).

## PROGRAMS

Our University takes part in European student mobility programs such as Erasmus, Erasmus Mundus, Comenius and Leonardo da Vinci.

Within Erasmus program our University provides mobility grants to students and teachers to higher education institutions from the European Union in order to improve curricula through transnational cooperation and to approach studies and teaching from a European perspective.





## ABOUT CAMPUS & STUDENT LIFE

Our campus is small enough to be friendly but large enough to offer a comprehensive range of programs.

The organization of the campus life helps to promote social interaction, entertainment, leadership opportunities, and personal development to students outside the classroom. It does so by structuring the campus environment as a living and learning laboratory that students can experience through various programs and services. Learning takes place both in and out of the classroom.

The Petroleum-Gas University provides opportunities for student involvement by offering activities, educational programs, and services.

### The campus includes:

- 74 lecture and seminar rooms, out of which 10 are amphitheaters with more than 100 seats and one with 500 seats;
- 105 laboratories equipped with modern appliances and installations both for teaching activity and for basic applied research activity;
- Library with over 286,000 volumes, with reading rooms, book storehouse, a department of bibliographical information and a university publishing house;
- The PG University Campus offer to the students and teachers, for educational purpose, next informational facilities:
  - Structured computer network, connected to the Internet with large band access (100 MBps);
  - 1 Novell server;
  - 1 Solaris server which serve as support for economical database;
  - 2 Unix servers for web sites hosting;
  - 11 Linux servers for E-mail services, DNS services, Gateways and Learning distance application;
  - 7 MS Windows servers as support for library, licenses and Oracle databases application;
  - 648 computers (desktop workstations and laptops) connected to the university network.
  - In the same context university have an Educational Agreement with Microsoft for operating systems and software application license.
- Gymnasium (540 sq.m.) and an outdoors sports ground with handball, basketball, volleyball and tennis grounds;
- 7 hostels with a total accommodation capacity of 1,700 students in 2, 3 and 4 - person bedrooms;
- A student cafeteria with a capacity of 500 persons which can serve 1,500 meals a day and works in a "a la carte" system;
- A GP's and a dentist's cabinet;
- A "Student House" generously hosts many artistic and cultural activities: scientific conferences, symposiums on various topics (in the field of arts, history, economy, philosophy and technology), university year opening ceremony, meetings of the members of various groups to prepare their participation in the National Students Festival
- A production workshop with a capacity of 75 persons;
- A training basis in the field of drilling and oil production;
- A university sports club having 10 different specialties.

# MAP & LOCATION





# PETROLEUM-GAS UNIVERSITY OF PLOIESTI

PETROLEUM-GAS UNIVERSITY OF PLOIESTI OFFERS:

- Undergraduate and further education programs;
- Postgraduate and professional programs;
- Part-time learning programs;
- Open and distance learning programs;
- Research, consulting and training.

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