FACULTY OF PETROLEUM, GAS AND PETROCHEMICAL ENGINEERING (FPGPE)

Persian Gulf University

fpgpe.pgu.ac.ir
fpgpe@pgu.ac.ir
+98-773122-2600

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Persian Gulf University, Bushehr, Iran

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IRAN

Iran is historically known as Persia. The Persian Empire was one of the greatest empires of the ancient world with a series of imperial dynasties. The empire also was frequently invaded, first by Alexander the Great, then by the Parthians, later ruled by the Hellenistic Seleucid Empire. With an area of 1,648,195 km², Iran is almost three times the size of France or slightly smaller than Alaska. Most of the country is situated on the Iranian Plateau (a geological formation in Western and Central Asia), except for the coastal regions at the Caspian Sea and the Khuzestan Province in the southwest at the Persian Gulf. The Zagros Mountains in the west form the largest mountain range in Iran, Iraq, and southeastern Turkey. In Iran's north towers the Elburz or Alborz mountain range that stretches from the border of Azerbaijan along the western and entire southern coast of the Caspian Sea. Mount Damavand, at 5,610 m (18,410 ft), is Iran's highest mountain located in the Elburz mountain range.

Iran has a population of 83 million people (in 2020). The country's largest city is Tehran, which is the capital and the political and economic center of the republic.

Other major cities are Mashhad, Isfahan, Karaj, Tabriz, Shiraz, Ahvaz, and Qom. Spoken languages are Persian (Farsi, official), Kurdish, Azeri, Arabic, Baluchi. The official religion is Shia Islam.

CAPITAL:	*TEHRAN*
AREA:	*1.648 MILLION KM²*
POPULATION:	*83.99 MILLION*
# OF PROVINCES:	*31*

IRAN

Yazd Atash Behram, Yazd

Azadi Tower, Tehran

Perspolis, Shiraz

Chehel Sotoon Palace, Isfahan

Falakolaflak Citadel, Khorramabad

Kish island, southern Iran

Ali-Sadr Cave, Hamadan

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BUSHEHR

Būshehr, also called Būshehr, Bushir, Bushire, or Būshahr, port city and capital of Būshehr province, southwestern Iran. It lies near the head of the Persian Gulf at the northern end of a flat and narrow peninsula that is connected with the mainland by tidal marshes. Bandar-e Būshehr rose to prominence during the reign of Nādir Shāh when he established a naval base there in 1734 to control the periphery of the Persian Gulf. In the 1780s the English and Dutch East India companies transferred their trading posts to Būshehr from Bandar-e ʿAbbās. It became the seat of a British political resident in the 19th century and of several European consulates. Its commercial importance declined with the development by the Iranian government in the 1960s and ’70s of Khorramshahr as the principal port for the Persian Gulf. Bandar-e Būshehr continues to serve as a port, though it is eclipsed by Bandar-e ʿAbbās and Bandar-e Khomeynī (formerly Bandar-e Shāhpūr).

CAPITAL:	*BANDAR-E- BUSHEHR*
AREA:	*22,743 KM²*
POPULATION:	*1.185 MILLION*

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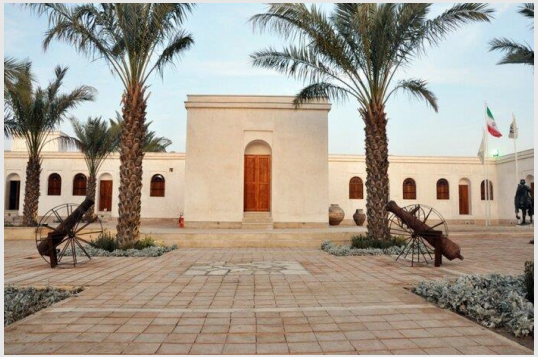
BUSHEHR

House of Raeesali Delvari



Golshan Mansion

Siraf Ancient City

Malek Mansion

Fishing Industry

History Texture

PARS SPECIAL ENERGY ECONOMIC ZONE

The PSEEZ (Pars Special Energy/Economic Zone) as it is known has been allocated 100 square kilometres of land at Asaluyeh for the various complexes and facilities. The site is a collection of different plants and refineries (known as "phases") and is administered by the PSEEZ agency onsite Archived 27 February 2021 at the Wayback Machine.

A total of 27 phases are envisaged (12 gas, 15 petrochemical), plus a mix of light and heavy industry, and associated support facilities such as factories and warehouses. The scale of the project is huge. Some 28 refineries and 25 petrochemical complexes are scheduled to be established in Asalouyeh, in southern Bushehr province. Of these, 10 refineries and 7 petrochemical complexes were already operational in 2009.

As of August 2005, US$20 billion of foreign money had been invested in PSEEZ since 1997. According to Iran's oil ministry, Sales of products from PSEEZ could be as much as $11 billion per year, over 30 years.

Private companies are also constructing a business park and warehouses.

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PERSIAN GULF UNIVERSITY

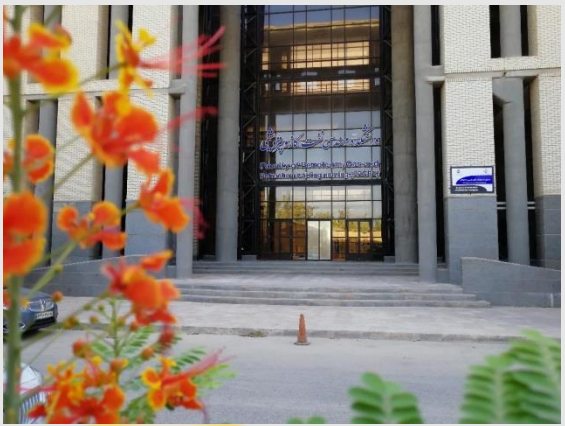
Persian Gulf University (also known as PGU) (خلیج فارس) is a public university located in the capital city of Bushehr, Bushehr province, Iran. Established in 1991 as 'Bushehr University and grew rapidly over the years. PGU is the largest and the first public university ever founded in the Bushehr province, Iran. It is considered one of the best and the most well-known universities in the south of Iran, bordering with the Persian Gulf, and has an excellent reputation for teaching quality, academic research, and graduate employability. The government of Iran partly provides its research funding. Also, several industrial companies have supported Persian Gulf University and provided research funding for the desired programs and projects. Besides, PGU has signed agreements with international universities for research and educational collaborations.

FACULTIES

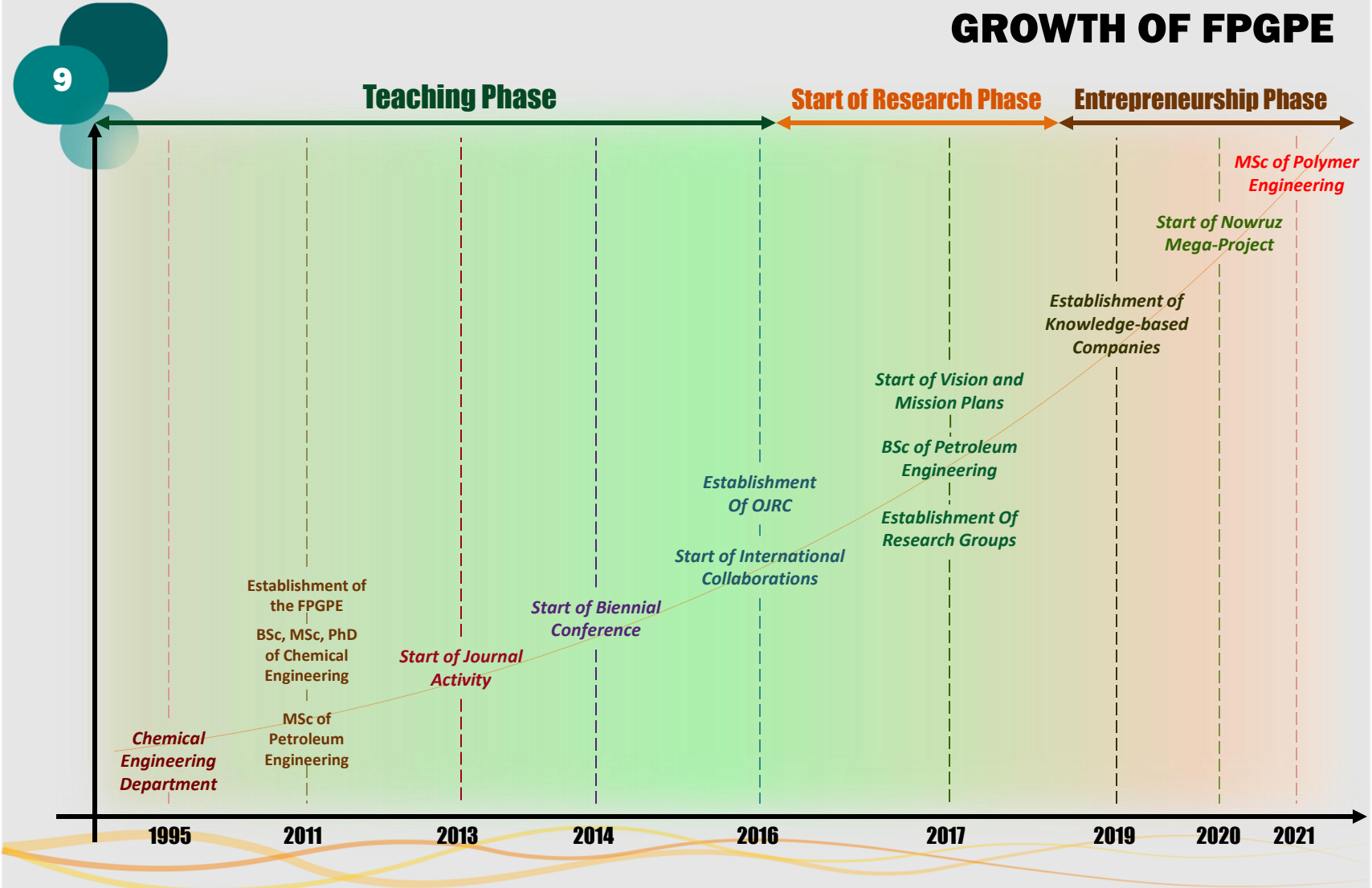
- Agricultural Engineering
- Arts and Architecture
- Business and Economics School Engineering
- Engineering and Technology of Jam
- Humanities
- Intelligent Systems Engineering and Data Science
- Nano and Bio-Sciences and Technology
- Petroleum, Gas and Chemical Engineering

Faculty of Petroleum, Gas and Petrochemical Engineering

The Faculty of Oil, Gas and Petrochemical Engineering, meanwhile, has the ability to play a significant role in this growth and prosperity for a number of reasons. Having an experienced and hard-working faculty and staff that has led to the training of efficient and literate graduates with a high spirit of service and effort for the advancement of Islamic Iran, is one of the prominent highlights of the faculty. The outputs of the faculty are higher education and serving human society not only at the national level but also at the transnational level.



GROWTH OF FPGPE



ADMINISTERATION STAFF

Dr.
Seyed Abdolatif Hashemifard

Associate Professor of Chemical engineering

DEAN

Dr.
AmirAbbas Izadpanah

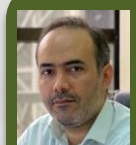
Associate Professor of Chemical engineering

DEPUTY DEAN (EDUCATION)

Professor
Reza Azin

Professor of Petroleum engineering

DEPUTY DEAN (RESEARCH)



Dr.
Ahmad Jamekhorshid

Assistant Professor of Chemical engineering

Head of CHEMICAL ENGINEERING DEPT

Dr.
Ali Ranjbar

Assistant Professor of Petroleum engineering

Head of PETROLEUM ENGINEERING DEPT

ACADEMIC STAFF

Masoud Mofarahi

Professor of Chemical engineering

Shahriar Osfuri

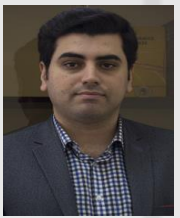
Professor of Chemical engineering

Mohsen Abbasi

Associate Professor of Chemical engineering

Ahmad Azari

Associate Professor of Chemical engineering



Arash Khosravi

Assistant Professor of Chemical engineering

Hossein Rahide

Assistant Professor of Chemical engineering

Abolfazl Dehghanmonfared

Assistant Professor of Petroleum engineering

Amir Rostami

Assistant Professor of Chemical engineering

Ali Yadegari

Assistant Professor of Chemical engineering

M.Hashem Sedghkerdar

Assistant Professor of Chemical engineering

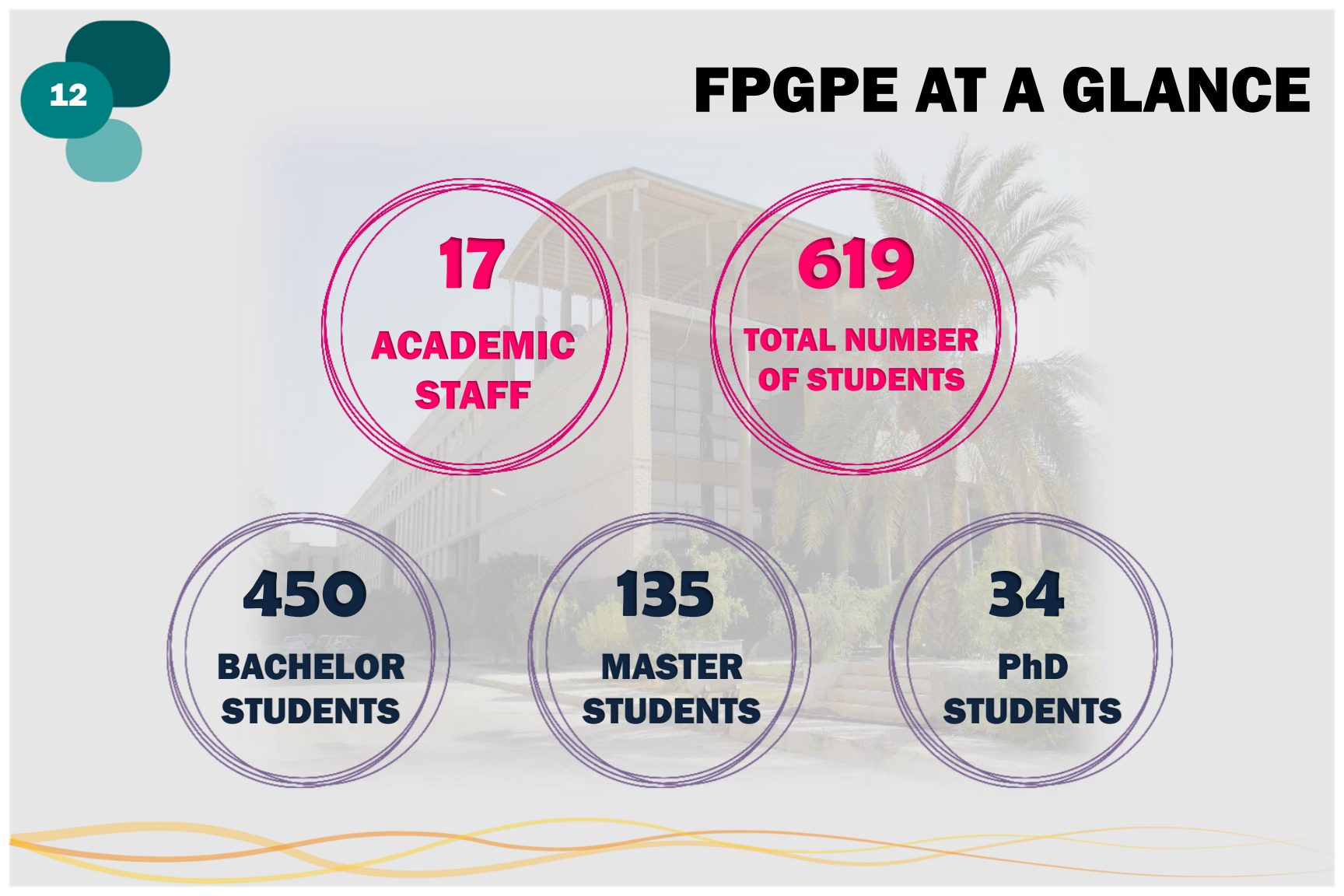
Ali Izadbakhsh

Assistant Professor of Chemical engineering

Azade Mirvakili

Assistant Professor of Chemical engineering

FPGPE AT A GLANCE



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ACADEMIC STAFF

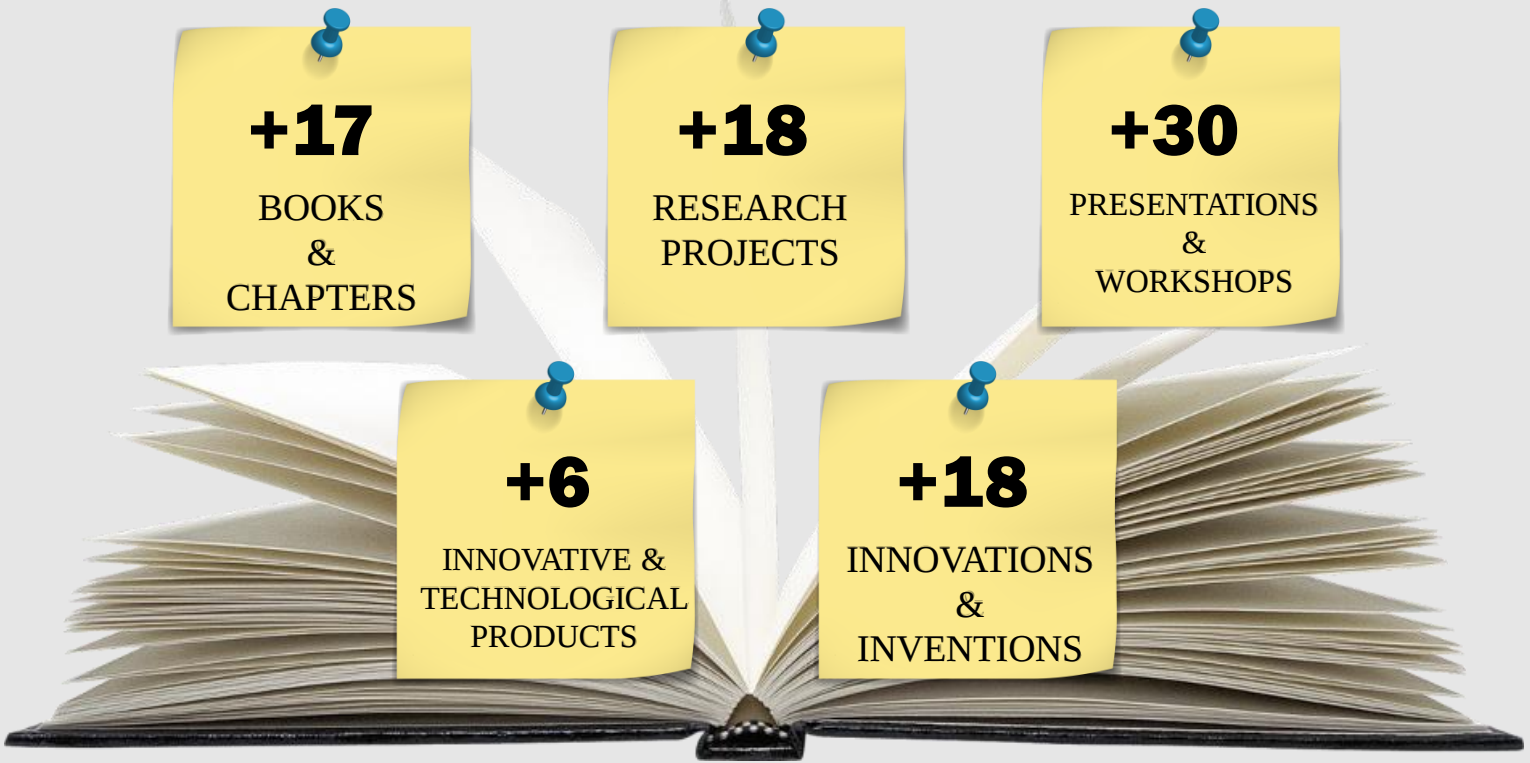
619
TOTAL NUMBER OF STUDENTS

450
BACHELOR STUDENTS

135
MASTER STUDENTS

34
PhD STUDENTS

FPGPE ACHIEVEMENTS



DEPARTMENTs

PROGRAMS

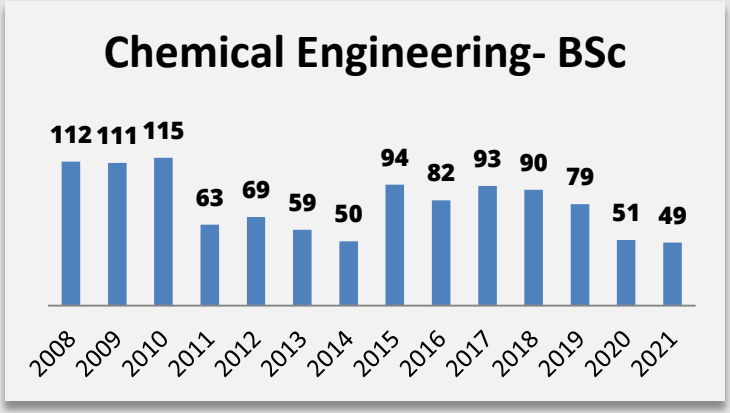
Chemical Engineering

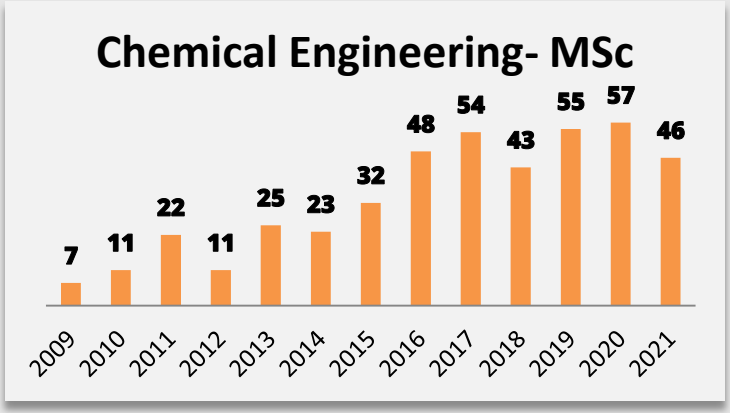
Chemical Engineering	BSc
Thermo Kinetic	MSc
Process Engineering	MSc
Separation	MSc
Petrochemical Processes	MSc
Chemical Engineering	PhD

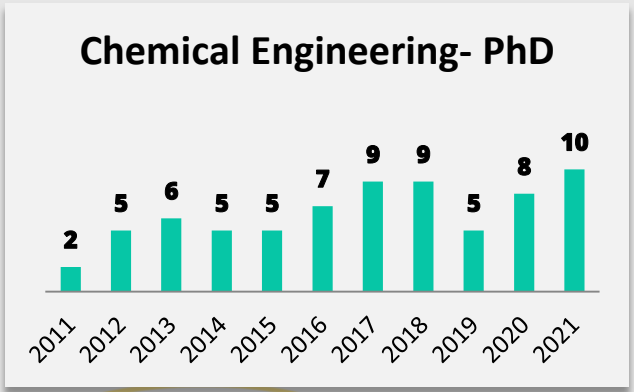
Petroleum Engineering

Petroleum Engineering	BSc
Drilling and Production	MSc
Reservoir Engineering	MSc
Petrochemical Processes	MSc
Petroleum Engineering	PhD

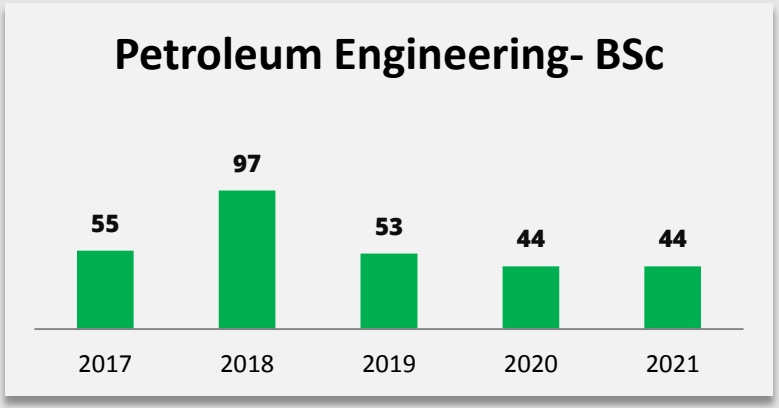
CHEMICAL ENGINEERING STATISTICS

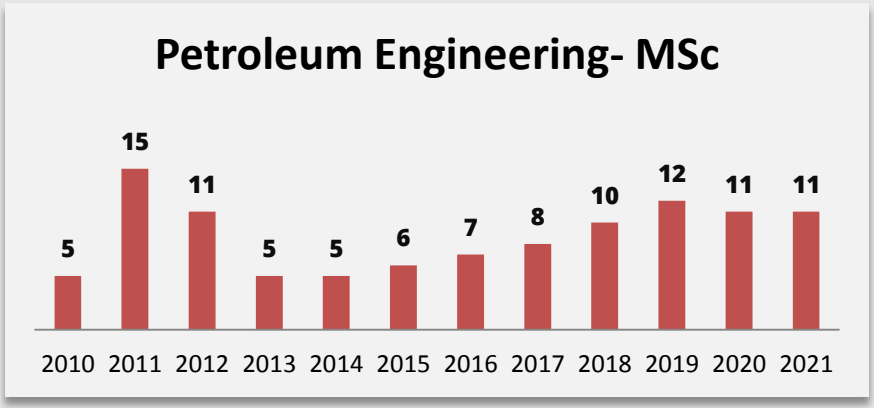






PETROLEUM ENGINEERING STATISTICS

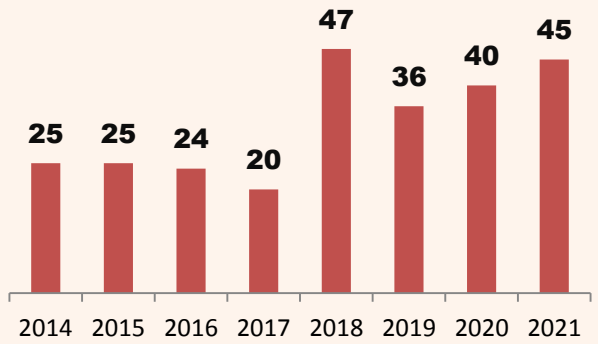




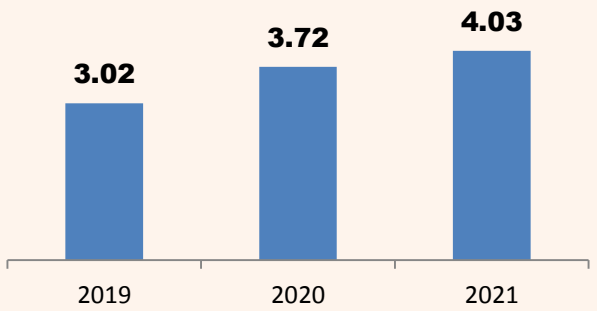
RESEARCH ACTIVITIES

RESEARCH STATISTICS

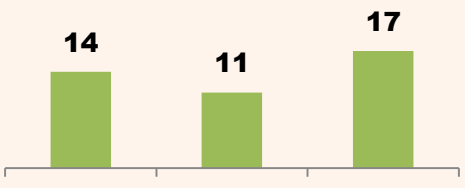
Number of SCOPUS papers



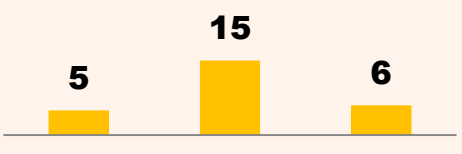
Citation Index in SCOPUS



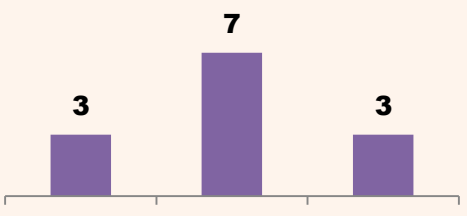
Joint articles with international collaborators



Number of contracts concluded in Research and technology projects

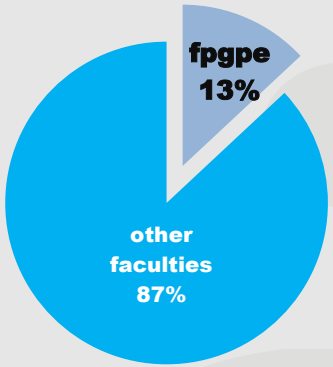


ISC papers

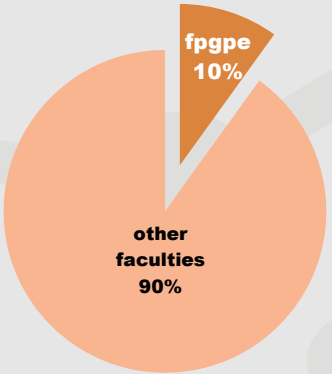


RESEARCH STATISTICS

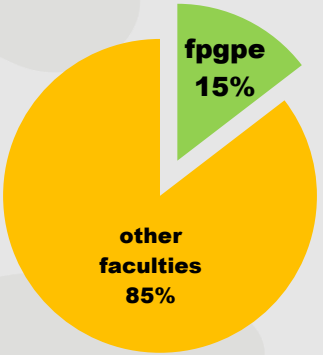
BETWEEN YEARS 2019- 2021



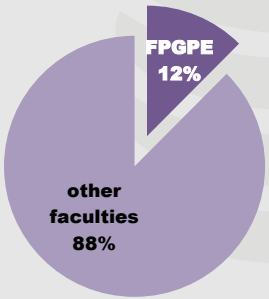
SCOPUS papers
(121 of 774)



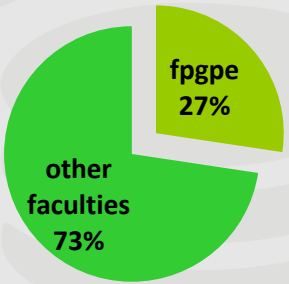
Technological products
(17 of 154)



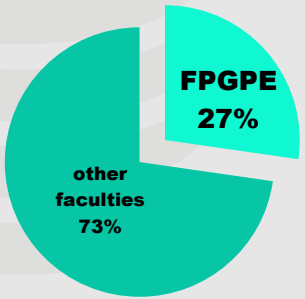
knowledge-based companies
(7 of 41)



Joint papers with international collaborators (42 of 295)



contracts concluded in Research and technology projects (29 of 69)



Persian Gulf Research
(12 of 32)

RESEARCH GROUPS

APPLIED NANO-BIO TECHNOLOGY GROUP

The research group of applied Nano-biotechnology is established in Persian Gulf University with the aim of conducting applied research and technology development in the areas of green energy, production and application of natural products using converging nanotechnology and biotechnology fields.

We invite all researchers and scholars worldwide in collaborative research in the field of applied Nano-biotechnology.

Head

Professor Shahriar Osfuri

Research Focus

- ***Production of Nanoparticles Using Natural Resources***
- ***Drug Delivery***
- ***Dye Sensitize Solar Cells (DSSCs)***
- ***Green Fuel Production***

APPLIED NANO-BIO TECHNOLOGY GROUP

Achievements

+33 Journal papers

+6 Conference papers

+5 Inventions

Laboratory Facilities

Karl-Fischer Titrator

Solar simulator and solmetric I-V curve tracer

Centrifuge

Planetary-ball-mill

SUSTAINABLE MEMBRANE TECHNOLOGY GROUP

Our research combine organic and inorganic chemistries, nanotechnology and chemical engineering to uncover how structure and surface phenomena of the fabricated membrane are involved under various underlying principal mechanisms toward final separation properties.

Various characterizations tests such as: SEM, TGA, DSC, XRD, EDX, Contact angle, along with performance tests are performed to correlate the fabrication processes and the resultant membrane performance.

Our focus is made on both environmental issues and industrial problems and the topics covered by the research group include, but are not restricted to: industrial and municipal wastewater treatment, water desalination, heavy metal removal, gas separation, natural gas or air dehydration. Therefore, to achieve these targets the following membrane separation techniques are implemented: RO, FO, MD, UF , MC, MBR, ED, RED, GS.

Head

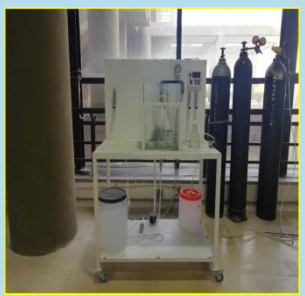
Dr. Abdolatif Hashemifard

Research Focus

- ***Forward Osmosis (FO)***
- ***Membrane Distillation (MD)***
- ***Hemodialysis***
- ***Electrodialysis (ED)***
- ***Membrane Contactor (MC)***
- ***Ceramic membrane fabrication***
- ***Membrane Bioreactors (MBR)***
- ***Gas Separation (GS)***

SUSTAINABLE MEMBRANE TECHNOLOGY GROUP

Laboratory Facilities



Achievements

+49 Journal papers

+6 Projects

26

HYDROCARBON RESOURCES, ENERGY AND ENVIRONMENT (HREE)

Hydrocarbon Resources, Energy and Environment (HREE) is a research group founded in 2014 in the Faculty of Petroleum, Gas, and Petrochemical Engineering (FPGPE), Persian Gulf University (PGU).

The Motivations for creating this research group is to Explore and enjoy the oil and gas industry, Identify the industry technical needs, Participate in technical courses, Integrate research and technology in a multidisciplinary approach, Support fresh graduates and expand team network, Find the novel and hot research and technology topics, Develop novel products with market potential , … .

Head

Professor Reza Azin

Research Focus

❖ *UPSTREAM*

- Reservoir Engineering
- Enhanced Oil Recovery (EOR)
- Enhanced Gas Recovery (EGR)

❖ *DOWNSTREAM*

- Process Simulation and Optimization
- Energy Optimization
- Exergy Analysis

❖ *ADVANCED TECHNOLOGIES*

- Nanotechnology
- Biotechnology
- Nano/Bio

❖ *ENVIRONMENTAL STUDIES*

- Carbon Management
- Carbon Capture and Sequestration (CCS)
- Flare Gas Recovery
- Sulfur Recovery

HYDROCARBON RESOURCES, ENERGY AND ENVIRONMENT (HREE)

Achievements

+49 Journal papers

+6 Projects

+3 Technological Products

Laboratory Facilities

Rheometer MCR 301

Methane Reforming Reactor Setup

28

COMPUTATIONAL FLUID DYNAMICS GROUP

Computational fluid dynamics is one of the branches of fluid mechanics that analyzes problems involving fluid flows using numerical analysis and numerical algorithms. Computers are used to simulate the interaction of liquids and gases with levels of boundary conditions. In this method, by converting the partial differential equations governing fluids to algebraic equations, it is possible to solve these equations numerically. By dividing the desired area into smaller elements and applying boundary conditions to the boundary nodes of the analyzed area, by applying approximations, a system of linear equations is obtained, which solves the algebraic equations, velocity field, pressure and temperature in the desired area. Using the results obtained from solving the equations, the result of forces on surfaces, heat transfer and mass transfer coefficients, heat transfer fluxes and mass transfer can be calculated. Different methods and algorithms are used to achieve the desired results in computational fluid dynamics, but in all cases, the amplitude of the problem is divided into a large number of small components and the problem is solved for each of these components.

Head

Dr.
Ahmad Azari

https://yun.ir/0tiqxa

Research Focus

- ***Design of new process equipment to achieve a specific goal***
- ***Redesign existing process equipment to achieve improved conditions***
- ***Better knowledge of flows in processes and process equipment to find bottlenecks and correct them***
- ***Troubleshooting process equipment in the current situation and recommending corrective solutions***
- ***Optimization of processes and process equipment to achieve the best situation***

COMPUTATIONAL FLUID DYNAMICS GROUP

Achievements

+27 Journal papers

Laboratory Facilities

Accelerated Surface Area and Porosimetry System

Gas Chromatography

Viscometer SVM 3000

Viscosity System Size forthe Capillary RP890/Lauda

30

ADSORPTION AND ABSORPTION GROUP

The purpose of our research is to measure, simulate, interpret and correlate thermodynamic properties of a variety of mixtures as required for adsorption process design in the oil, gas, petrochemical and related industries. Toward that end, we obtain gas adsorption experimental data, the performance of pressure (or vacuum) swing adsorption pilot plant and application thermodynamic models and process simulation.

Head

Professor
Masoud Mofarahi

Research Focus

- ***Adsorption equilibrium and kinetics***
- ***Pressure swing adsorption***
- ***CO2 emissions capture***

www.mesopore.com

ADSORPTION AND ABSORPTION GROUP

Achievements

+42 Journal papers

Laboratory Facilities

Gas Chromatography

Viscometer SVM 3000

Viscosity System Size for the Capillary RP890/Lauda

CHEMICAL REACTION ENGINEERING

Chemical Reaction Engineering Research Center (CRE) carries out research activities in order to optimize and solve the problems of petrochemical process reactors and environmental issues in the region. This is done through materials engineering, theoretical and experimental catalytic research, process simulation and CFD simulation of fixed and fluidized bed reactors. Gaseous conversions, including reforming reactions, conversion of methanol to olefins, and new reactions for the adsorption and conversion (photo-catalytic) of CO2, as well as the improvement of combustion by technology (chemical combustion ring), are of particular interest.

Head

Dr.
Ali Izadbakhsh

Research Focus

- ***Modeling the reaction of conversion of methanol to olefin by percolation***
- ***Synthesis of modified zsm-5 catalysts in the conversion of methanol to olefins***
- ***Synthesis of catalytic converter of vegetable oil into biodiesel***
- ***Synthesis of optical catalysts based on tio2 to convert CO2 to ethanol***
- ***Synthesis of polystyrene based on anionic polymerization***
- ***Synthesis of nickel catalysts based on stable mesoporous alumina in dry methane conversion and partial methane oxidations***
- ***Synthesis of nickel catalysts based on regular porous silica based on dry methane conversion and partial methane oxidation***
- ***The effect of reformer brick arrangement on exhaust smoke temperature and its thermal efficiency using CFD***
- ***3D simulation of Topsu's auto thermal reformer with a capacity of more than one million tons per year***

CHEMICAL REACTION ENGINEERING

Achievements

+25 Journal papers

Laboratory Facilities

Uv/Vis Spectrophotometer Photonix Ar 2015

Microwave reaction system /Multiwave PRO

Heat of combustion (Calorimeter) C2000

Karl-Fischer Titrator

ROCK SERVICE CENTER

Rock Service Center

Rock Service Center is active in the oil, gas, and mining industries which has been formed by faculty members and graduates of the Persian Gulf University in order to provide core samples, present technical engineering, and educational services to experts, researchers, and students.

Head

Dr.
Ali Ranjbar

This collection provides an archive containing cores of different geological formations in Iran and offers a wide range of laboratory tests and geological analyses. In addition to these products, it provides training services related to earth sciences.

The RCS provides research, teaching, and services related to rock mechanics, rock physics, and engineering geo-mechanics. This center provides scientific and industrial data as well as cutting-edge technologies in earth science.

Research Focus

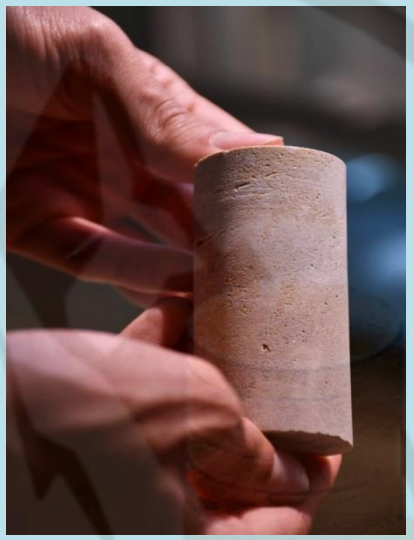
- ***Preparation and study of reservoir representative cores***
- ***Geo-mechanical and mechanical studies of rocks***
- ***Geological surveys with specific purposes***
- ***Studying the common and special properties of the cores***

Computational Fluid Dynamics Group

Achievements

+15 Projects

Laboratory Facilities



OIL AND GAS RESEARCH CENTER

OIL AND GAS RESEARCH CENTER

In November 2015, Oil and Gas Research Center received the establishment agreement for the two groups of energy research and environment and processing, conversion and transfer from the Ministry of Science, Research and Technology. The center's goal is to direct academic research to innovation, solving industry problems, providing technological solutions, applying postgraduate dissertations, creating scientific, technical and consulting infrastructure to the community about.

OGRC is currently working with 19 researchers from the Persian Gulf University. Additionally, more than 40 graduate students (doctoral and master's) are doing their dissertations under the guidance and supervision of the center's researchers.

http://ogrc.pgu.ac.ir/

OIL AND GAS RESEARCH CENTER

OUR JOURNAL

JOURNAL OF OIL, GAS AND PETROCHEMICAL TECHNOLOGY

Journal of Oil, Gas and Petrochemical Technology (JOGPT) publishes the latest researches, developments and innovations in technology-related fields of gas, petrochemical and oil industries covering upstream and downstream technologies. For this purpose, fundamental researches, applications and developments in the areas mentioned above as well as other areas such as new technologies, transfer of technology, environmental technology and the related topics will be considered.

Annually, two issues will be released. All the received manuscripts are subjected to blind peer review before making any final decision. Every effort is made by the editorial board, to publish the accepted articles as quickly as possible.

The publication process of manuscripts submitted to JOGPT is free of charge.

All submitted manuscripts are checked for similarity through a trustworthy software named iThenticate to be assured about its originality.

JOGPT Journal has been indexed in the well-known world databases such as, DRJI, Ulrichsweb, SIS, … Journal of Oil, Gas and Petrochemical Technology (JOGPT) follows the rules and guidelines defined by the Committee on Publication Ethics (COPE).

Editor-in-Chief

Professor Masoud Mofarahi

mofarahi@pgu.ac.ir

jogpt.pgu.ac.ir

2014

2015

2016

2017

2018

2019

2020

2021

JOURNAL OF OIL, GAS AND PETROCHEMICAL TECHNOLOGY

Editorial board

OUR BIENNIAL CONFERENCE

BIENNIAL OIL, GAS, PETROCHEMICAL CONFERENCE

OGPC is an international event for new-age energy and environmental scientific researches and also the achievements of the oil, gas, petrochemical, and energy-related companies organized by Persian Gulf University (PGU) in Bushehr.

OGPC is to bring together academics and industrial professionals in the fields of petroleum upstream and downstream technologies, energy, and environments. Our goal is to promote industrial experiences, scientific researches and innovations, technology developments, sustainable progress and knowledge interchange between students, researchers, engineers, managers, and industry working globally.

The conference was first held as a national conference with the name "The first national conference on nanotechnology in the oil, gas and petrochemical industries" in May 2014 and students and researchers from all over the country submitted their paper. In the year 2016 the conference became an international one so to extend the scope of our research. The decision was to have a biennial international conference in order to have researchers all around the world. In April 2016 the first international Oil, Gas and Petro-chemistry Conference was successfully held. The second and third conferences were in October 2018 and October 2020 respectively.

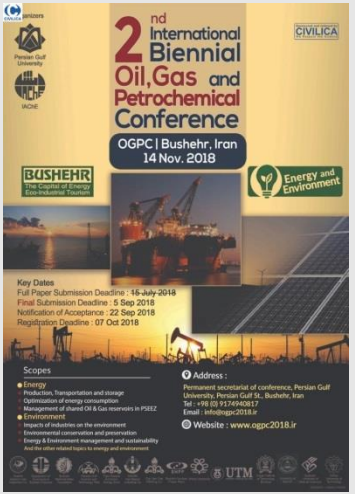
BIENNIAL OIL, GAS, PETROCHEMICAL CONFERENCE

May 2014

93
Submitted Papers

69
Accepted Papers

April 2016



107
Submitted Papers

76
Accepted Papers

October 2018

350
Submitted Papers

140
Accepted Papers

BIENNIAL OIL, GAS, PETROCHEMICAL CONFERENCE

Virtual

15
KEYNOTE SPEAKERS ✓

128
ACCEPTED PAPERS ✓

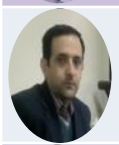
+7
COUNTRY ✓

BIENNIAL OIL, GAS, PETROCHEMICAL CONFERENCE

HONORS AND AWARDS

	Award Title	Given by	Year
 **Professor Dr.** Masoud Mofarahi	*Outstanding researcher Of Bushehr Province*	*Bushehr Governorate*	**2019**
 **Professor Dr.** Shahriar Osfuri	*Top researcher in the Field of Engineering*	*Bushehr Governorate*	**2017**
 **Professor Dr.** Masoud Mofarahi	*Third place among Inventors*	*The First International Festival of Iranian Inventions*	**2016**
 **Dr.** Ahmad Azari	*First Place in the National Chem-E-Car Competition*	*Eleventh National Chem-E-Car Competition*	**2016**
 **Professor Dr.** Reza Azin	*Third place among Inventors*	*The First International Festival of Iranian Inventions*	**2016**

HONORS AND AWARDS

	Award Title	Given by	Year
 **Professor Dr.** Reza Azin	*Outstanding Researcher of PGU*	*Persian Gulf University*	**2020**
 **Dr.** AmirAbbas Izadpanah	*Top Deputy Dean (Education)*	*Persian Gulf University*	**2020**
 **Dr.** Ahmad Jamekhorshid	*Top Head Department of PGU*	*Persian Gulf University*	**2020**
 **Professor Dr.** Masoud Mofarahi	*Outstanding Researcher of PGU*	*Persian Gulf University*	**2018**
 **Dr.** Seyed Abdolatif Hashemifard	*Outstanding Researcher of PGU*	*Persian Gulf University*	**2015**

SIGNIFICANT PROJECTS

NOWRUZ OIL FIELD MEGA PROJECT

Nowruz is one of the oil fields of the continental shelf, which is located in Bushehr province and the Persian Gulf, and is located 97 km from Bahregan region. The field initially had 14 active wells, which were almost completely destroyed during the imposed war, but after the end of the war, 17 new horizontal wells were included in the program.

The study of the Nowruz oil field was assigned to the Persian Gulf University in 2020, under a 10-year contract. Research in the field of methods to increase the withdrawal from the reservoir and conduct technological consulting in this regard is one of the obligations of the university in signing a contract with the Ministry of Oil.

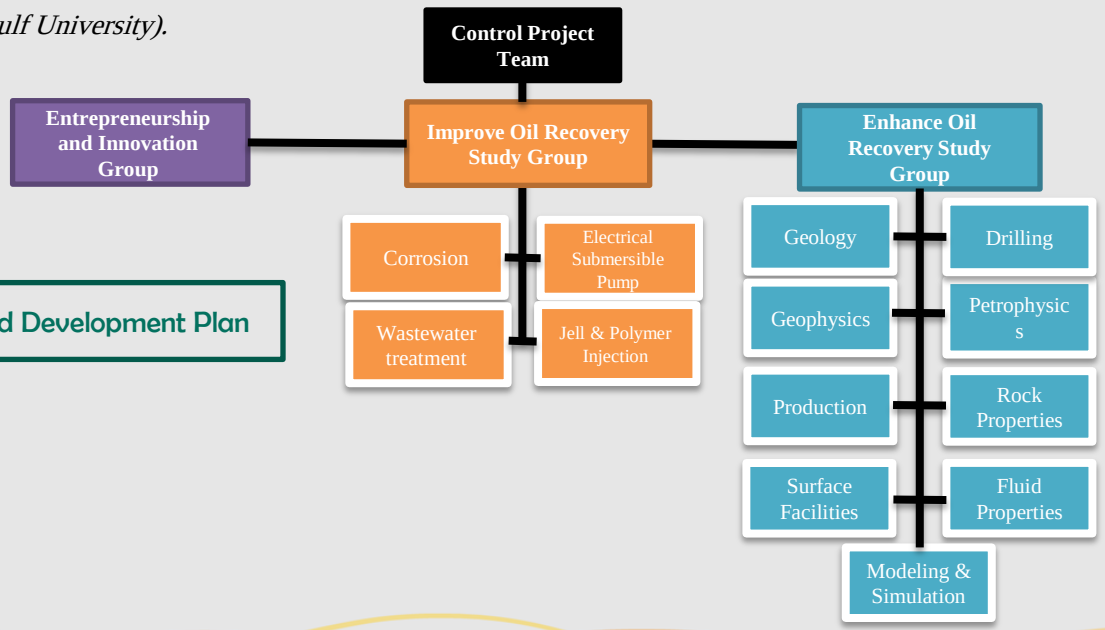
NOWRUZ OIL FIELD MEGA PROJECT

On Monday, September 22, with the presence of Minister of Petroleum Bijan Zanganeh, 13 major research contracts in the field of enhance recovery was signed between the National Iranian Oil Company and the country's prestigious universities.

Nowruz field, one of the fields under the management of the Iranian Offshore Oil Company located in the Persian Gulf, was handed over to the Persian Gulf University.

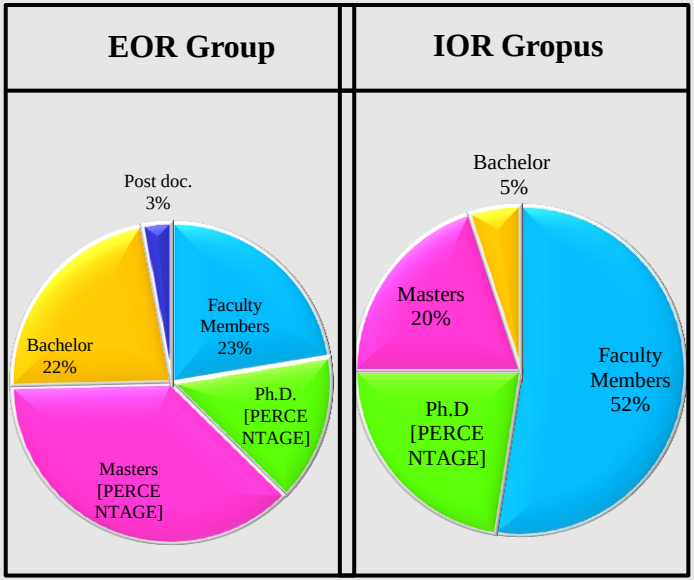
This research contract signed by Dr. Karbasian (CEO of the National Iranian Oil Company) and Dr. Mosleh (President of the Persian Gulf University).

Nowruz Field Development Plan



NOWRUZ OIL FIELD MEGA PROJECT

Academic Rank	No.	
	EOR Group	IOR Groups
Faculty Members	14	5
Post Doc.	2	0
Ph.D.	2	6
Master	12	5
Bachelor	39	1
Sum	69	17



PERSIAN GULF WATER DESALINATION PROJECT

Hydr esal

نمک زدایی آب با هیدروژل های پلیمری

تحلية المياه باستخدام الهلاميات المائية البوليمرية

JOHANNES GUTENBERG UNIVERSITÄT MAINZ

Prof. Sebastian Seiffert (JGU)

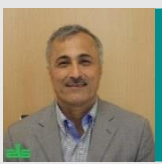
Coordinator
Development of thermo-responsive hydrogels

JGU

Prof. Michael Maskos

Development of lab-scale desalination setup
Development of Hydrogels

Franhofer IMM



Prof. Alireza Shakeri

Membrane Development

University of Tehran, Iran

Prof. s. Abdolatif Hashemifard

Development of lab-scale desalination setup

Persian Gulf University, Iran

Prof. Qusay Alsalhy

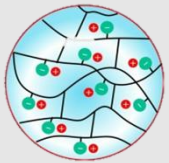
Membrane Development

University of Technology, Iraq

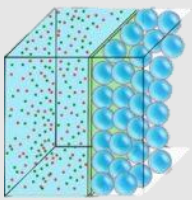
Persian Gulf University

PERSIAN GULF WATER DESALINATION PROJECT

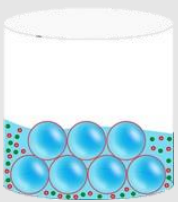
Application of charged, thermo-responsive Hydrogels



Membrane-based forward osmosis desalination



Membrane-free based forward osmosis desalination



Research Targets

This project targets to develop membrane-based- and membrane-free FO desalination processes (MbFO and MFFO, respectively) by developing charged, thermo-responsive hydrogels and new membranes. The targeted desalination approach should be suitable to serve as a basis for designing desalination setups on a lab-scale, aiming at a prototype-scale capacity as well as at capital and operation plus maintenance costs smaller than those of existing desalination plants. With these characteristics, the target method should be suitable for providing fresh water for small villages close to salty water sources like seawater and can thereby be considered as a local solution for water scarcity, which is a global challenge specifically emergent in the Middle-East region.

https://www.hydrodesal.uni-mainz.de/

INTERNATIONAL PROGRAMS & ACTIVITIES

INTERNATIONAL PROGRAMS

SPRING SCHOOL 2017

Spring school was held in Spring 2017, with the accompany of academic staff and students of LEOBEN and Persian Gulf University.

The event encluded visiting parts of the PGU and Phase 20 and 21 of South Pars as well as scientific and educational speach and workshops.

INTERNATIONAL PROGRAMS

SUMMER SCHOOL 2017

This deployment (11-19 september 2017) took place in the implementation of the international memorandums of the Persian Gulf University of Bushehr, in the framework of which a number of engineering students of this university visited some centers of the University of Montana Leuben, Austria. The programs of this summer school included acquaintance with the activities and achievements of research, science and technology in the fields of process engineering, environment, energy, petroleum engineering, teamwork and international projects of the University of Montana.

INTERNATIONAL PROGRAMS

WINTER SCHOOL 2019

Winter school was held in the winter of 2019, attended by a number of post-graduate students of chemical/ petroleum and petrochemical engineering.

Several workshops, visits, speech and other interesting and educational programs were held in 10 days. In this event, students visited the laboratories of the FPGPE, met the academic staff of the faculty and attend a variety of workshops.

INTERNATIONAL COLLABORATION

Persian Gulf University

Faculty of

Petroleum, Gas and Petrochemical

Engineering

(FPGPE)

fpgpe.pgu.ac.ir

fpgpe@pgu.ac.ir

+98-773122-2600