



**Name of the Program(s): - Diploma in Oil and Gas Engineering (DOGE), Advanced Diploma in Oil and Gas Engineering (ADOGE), Professional Certificate in Oil and Gas Industrial Technical Skills Training (OGITS), Graduate Diploma in Oil and Gas Engineering (GDOGE), Post Graduate Diploma in Oil and Gas Engineering (PGDOGE).**

Are you interested in earning your Diploma, Advanced Diploma or Graduate Diploma or PG Diploma in Oil and Gas Engineering Professional degree? (DOGE or ADOGE or OGITS or GDOGE or PGDOGE)™ certification, but you're unsure how to start the process? While this is a great step for your individual career, it doesn't have to be a complex one really if you study from GEPEA. This is the ultimate guide on DOGE™ or ADOGE™ or OGITS™ or GDOGE™ or PGDOGE™ certification and it can be your easy roadmap for navigating this process. You may explore some common questions you might have about international Oil and Gas Engineering certification holder.

**Why Study Oil and Gas Engineering?**

This engineering programme opens up a wide range of different career opportunities. You will gain crucial engineering and technological skills as well as knowledge in safety and risk management, time management, planning, implementation, communication and production etc. But not limited, from upstream to downstream, with various verticals, the industry offers an expansive range of opportunities. Not just technical roles but there is an immense opportunity to grow in non-technical roles as well.

**What does an Oil and Gas Engineer and Petroleum Engineer do?**

An oil and gas engineer is involved in the process of extracting oil and natural gas from reservoirs. They may be drilling engineers, production engineers, or reservoir engineers, according to the Society of Petroleum Engineers. Oil & gas engineering is a very broad masters that covers almost all aspects of engineering, whereas petroleum engineering is a specialized masters that will help prepare you for a petroleum engineering position. Petroleum engineers design and develop methods for extracting oil and gas from deposits below the Earth's surface. Petroleum engineers generally work in offices or at drilling and well sites. Travel is frequently required to visit these sites or to meet with other engineers, oilfield workers, and customers. Basically, petroleum engineers are concerned with four main areas: finding oil, evaluating whether it has potential, recovering the oil, and transporting/storing it.



## **OIL AND GAS ENGINEERING PROFESSIONAL TRAININGS**

***GEPEA (Global Educational & Professional Excellence Academy)***

**Training Hours: 78 or 90 hours.**

**Program Duration: 6 Months (or Fast Track for Diploma holders through Course Exemption), 1 Year (full time studies Certifications).**

Oil and Gas Engineering Graduate/PG Diploma program is a 1 year's course taught in distance learning /Online learning mode.

*Diploma should be completed within 6 months (1 Semester) and Graduate Diploma/PG Diploma for two semesters through one or two additional subjects respectively.*

**Admission Requirements:** A diploma or an associate degree in general science or science (or global equivalent), Secondary degree (high school diploma, associate degree, or the global equivalent).

**Other Requirements:** Any Science related degree are needed to take this course, but have some extra skills using laptop/computer and internet, E-mail for communications will help.

**Training Delivery:** The course duration will comprise 78 or 90 hours of self-study home based delivery through Email/online distance learning. The 78 or 90 hours will be delivered in 12-15 sessions online distance learning based on given course materials. This 6 month to 1-year course aims to provide an introduction to the Oil, Gas Engineering.



# Syllabus Outline

Serial No.	Syllabus component	Assignment TMA (Tutor Mark Assignment) or Case Study	Board Questions (OBS = Open Book System) Exam.	MCQ (Multiple Choice Questions) 10 Questions (each @ 2 marks)
	<b>12 parts will count 6 hours each (12 parts/courses x 6 hours study each = 72 hours total + Optional Subject @ 6 Per subject =78) + Project Exercises Minimum 12 hours = Grand Total 90 hours for Dip./GD or 78 Hours for other courses.</b>	<b>45</b>	<b>35</b>	<b>20</b>
<b>1</b>	<b>Diploma in Oil and Gas Engineering (DOGE), Advanced Diploma in Oil and Gas Engineering (ADOGE), Professional Certificate in Oil and Gas Industrial Technical Skills Training (OGITS), Graduate Diploma in Oil and Gas Engineering (GDOGE), Post Graduate Diploma in Oil and Gas Engineering (PGDOGE).</b>	<i>78 or 90 Hours (Time)</i>		
	<p style="text-align: center;"><b>SEMESTER -1</b></p> <p><b>1. <u>Oil &amp; Gas Business (Introduction to the Global Oil &amp; Gas Business):</u></b></p> <p style="text-align: center;"><b>OR</b></p> <p><b><u>Fundamentals of gas lift engineering: well design and troubleshooting:</u></b></p> <p><b>2. <u>Introduction to Petroleum Engineering:</u></b></p> <p><b>3. <u>Fundamentals of Petroleum Exploration:</u></b></p> <p><b>4. <u>Optimization and Business Improvement Studies in Upstream Oil and Gas Industry:</u></b></p> <p><b>5. <u>Production Engineering (Working Guide to Petroleum and Natural Gas Production Engineering):</u></b></p> <p><b>6. <u>Fundamentals of Petroleum Refining:</u></b></p>	<p><b>45</b></p> <p><i>6 Credit Hours Per Subject</i></p>	<b>35</b>	<b>20</b>

## SEMESTER -2

### 7. Introduction to Oil and Gas Operational Safety:

### 8. Essentials of Oil and Gas Utilities: Process Design, Equipment, and Operations:

### 9. Working Guide to Petroleum and Natural Gas Production Engineering:

### 10. Oil and Gas Pipelines and Piping Systems. Design, Construction, Management, and Inspection:

### 11. Occupational Safety and Health Standards for the Oil and Gas Industry:

### 12. Project Management for the Oil and Gas Industry: A World System Approach:

*6 Credit  
Hours Per  
Subject*

### OPTIONAL SUBJECTS (For Post Graduate Diploma Any one/Two subjects can be chosen):

### Handbook of Offshore Oil and Gas Operations,  
### Oil & Gas Exploration and Production,  
### Intelligent digital oil and gas fields: concepts, collaboration, and right-time decisions,  
### Oil & Gas Pipelines in Nontechnical Language,  
### Offshore Petroleum Drilling and Production,  
### Artificial Intelligent Approaches in Petroleum Geosciences,

*6 Credit  
Hours Per  
Subject*

### Suggested Videos to watch & listen for the Trainings:

Oil and Gas Industry Overview [Training Basics Series]

<https://www.youtube.com/watch?v=O-qiUD9TEtQ>  
<https://www.youtube.com/watch?v=MHIHvAcceno>

Introduction to the Oil and Gas/Petroleum Industry

<https://www.youtube.com/watch?v=OVaajEzoYP8>

Fundamentals of oil industry and petroleum engineering

<https://www.youtube.com/watch?v=7PKeAlxPf8U>

How Does Oil And Gas Industry Work?

<https://www.youtube.com/watch?v=SLXcmAQwmyQ>



	<b>FOLLOWING ADDITIONAL TASKS SHOULD HAVE TO DONE BY PARTICIPANTS OR STUDENTS:</b> <ul style="list-style-type: none"> <li>a) Oil and Gas Engineering Certification Test MCQ Questions answer practicing</li> <li>b) Oil and Gas Engineering Certification Test Board Questions/TMA (Tutor Mark Assignment)</li> <li>c) Oil and Gas Engineering Certification Case Studies</li> </ul> <b>Exercises and projects</b>			
	<b>Project/Thesis/Case Studies</b>			
	<p>Student have to take a Project/Thesis/Case studies as per their major subject in order to complete his/her Graduate Diploma/PGD.</p> <ul style="list-style-type: none"> <li>• In case Project/Thesis, respective students should submit 25 to 45 (A4 Size) pages long report. <i>Course Tutor or Concern Authority will assign/fix Project/Thesis Topic or Title with consultation with respective student.</i></li> <li>• In Case Studies, respective students should submit case studies answer script in written form to the GEPEA within stipulated time frame. <i>Concern Authority will assign case studies question paper in time.</i></li> </ul>			
	<b>TOTAL HOURS REQUIRED TO BE COMPLETED FOR THE OIL AND GAS ENGINEERING DIPLOMA OR GRADUATE DIPLOMA OR PGD PROFESSIONAL CERTIFICATIONS = 12 parts will count 6 hours each (12 parts/courses x 6 hours study each = 72 hours total + Optional Subject @ 6 Per subject =78) + Project Exercises</b> <b>Minimum 12 hours = Grand Total 90 hours for Dip./GD or 78 Hours for other courses.</b>			

## How Does Oil and Gas Industry Work?

The oil and gas industry is one of the largest sectors in the world in terms of dollar value, generating an estimated \$3.3 trillion in revenue annually.<sup>1</sup> Oil is crucial to the global economic framework, especially for its largest producers: The United States, Saudi Arabia, Russia, Canada, and China. Investors looking to enter the oil and gas industry can quickly be overwhelmed by the complex jargon and unique metrics used throughout the sector. This introduction is designed to help anyone understand the fundamentals of companies involved in the oil and gas sector by explaining key concepts and the standards of measurement.

### KEY TAKEAWAYS:

The oil and gas industry is broken down into three segments: upstream, midstream, and downstream.

- Upstream, or exploration and production (E&P) companies, find reservoirs and drill oil and gas wells.
- Midstream companies are responsible for transportation from the wells to refineries and
- Downstream companies are responsible for refining and the sale of the finished products.

Drilling companies contract their services to E&P companies to extract oil and gas. Well-servicing companies conduct related construction and maintenance activities on well sites.

## **COURSE MATERIAL**

Besides using the traditional books GEPEA has also modernized the learning process by providing students with online portal consisting of –

- **Study Materials (Soft copies)** – PDF of books are provided to students making studies nomadic & convenient. GEPEA Department of Students Affairs will assign Study Materials via Email or other methods after registration and admission.
- The focal point of **GEPEA** study materials is enhancing Practical Education. **GEPEA** Kit provided to applicants is a world full of practical scenarios, explanation in terms of facts rather than theoretical phrases. Customized to be self-explanatory & easy to understand.
- **Faculty Guidance** – GEPEA panel of intellectuals guide students personally with regards to any query through email about any concept in the notes provided, being the author of the same.

## **EXAMINATION**

**GEPEA** Professionals are given the privilege to answer exams from any examination center in the world along with the freedom to pick the exam schedule for the same, as time permits in the particular examination months of GEPEA. Students are allotted 2 modes of examinations – Home Based/Center Based.

- Question papers would be drafted by **GEPEA** panel of veteran professors which would be TMA (Tutor Mark Assignment), OBS (Open Book System) and MCQ study pattern. A single course will consist 100 marks based on these three pattern of exam types. In each program will consist a major (Thesis Research) course or theory in order to complete the respective Diploma Program.
- This unique & novel methodology teaches a student how to assess business situations and make decisions based upon those assessments, allowing students to display their potential.
- In case of home based/distance learning exams question paper would be emailed to the students, which they would have to answer & courier back to GEPEA office or GEPEA directed authority in the respectable exam slab.
- Candidate also has the option of appearing for Center Based Examination wherein they would have to visit one of the many GEPEA exam centers & complete answering the exam in the duration of 3 hours which wouldn't be an open book examination.

## **CASE STUDY METHOD & STUDY MATERIAL:**

Today communication systems have advanced so much that it is much easier, convenient and quicker to gain expertise via online distance learning. GEPEA offer potential students the opportunity to study through an autonomous online distance learning program. This means that people who can't get traditional further education can still achieve what they want and get their qualifications through Online Distance Learning. That gives the opportunity for a much wider range of people to get the qualifications that they want. Today, thanks to technological advances, higher education is more readily available to those who want it.

GEPEA is an institute of excellence offering widest range of autonomous programmes in the field of Business Management and different Professional Training education. In response to the rapidly changing economic environment and the process of globalization, the Academy has made sustained efforts to bring an international perspective to all its

wide range of areas and activities.

## **BENEFITS AND FETURES:**

- (i) **Flexible Programs & Curriculum:** You can earn and study at the same time! From GEPEA International Curriculum, Flexibility is the biggest advantage of distance learning courses. This stands true especially if you are a working professional. Not everyone has the luxury of taking their own time to finish their studies. For those who had to take a break from studies to start working, such courses are a boon and provide the opportunity to pursue higher education.
- (ii) **Saves Time & Energy:** You save up a lot of time and energy on commuting. You can stay at any place and pursue a course that is available at GEPEA. Or you might be based out of a remote village or town which does not have enough options for higher studies. Distance learning courses eliminate these obstacles.
- (iii) **MCQ, Case Based Learning:** MCQ, A Case-based approach engages students in discussion of specific situations, typically real-world examples of African, Asian and International companies. Allowing the students to put their theoretical knowledge to practice.
- (iv) **Study at your own Pace:** Not everyone has the same pace of learning. Some students pick up things fast, others need time to grasp a concept. One of the biggest advantages of distance learning is that you can study at a pace that is comfortable for you.
- (v) **Saves Money:** These courses are almost always cheaper as compared to their on-campus counterparts. You also cut down on the costs incurred while commuting etc.
- (vi) **Personal Fulfillment:** An MBA is the key to unlocking both a professionally and personally rewarding future. Education is the foundation upon which you can build lifelong business and personal achievements. The GEPEA MBA program is designed to enrich your personal life, as well as to keep you informed about a constantly changing industry.
- (vii) **Convenient:** You can submit your assignment with the click of a button or simply drop it off at a post-office! It's sometimes as simple as that!
- (viii) **24X7 Access to Study Material & fellow Students:** This is the best way to study if you are comfortable with internet and technology. You can access your study material online whenever you want and also clear doubts, exchange views and discuss with your virtual class-mates!
- (ix) **Study any Topic You Want:** Since you'd already have all your books/online study material with you, you can pick up any topic/chapter that interests you and tackle that first! This way your interest in the subject is sustained.
- (x) **Higher Level of Self-Confidence:** The knowledge gained through our Correspondence MBA program will enhance your effectiveness in your current position and help define your future career path. It will sharpen your skills in critical business areas, giving you the self-confidence you need to become a leader in your profession.
- (xi) **Specialization:** We provide more than 80 specializations which allow students to gain additional knowledge and background on specific business topics.

## **ACCREDITATIONS AND RECOGNITIONS:**

### **ITQSM Accredited & International Partnered Professional Academies.**

GEPEA has proudly claimed the Excellence in Online Distance Learning Award presented by its Governing Body Really Matters as a token of appreciation for providing top notch education to professionals globally. This solely proclaims that GEPEA is one of the best Professional Academy in the field of online distance learning.

## **PROFESSIONAL FACULTIES:**

GEPEA Faculty members are highly professional, qualified & experienced. Professors provide substantial assistance through 24\*7 web support. Each & every query regarding studies, assignments, cases, projects, research are resolved on time & responded with clear, relevant answers on par with syllabus. They update themselves from time to time about the changing market scenario & syllabus. Thus working professionals have chance to get resourceful information by interacting with professors through web-support from time to time. Timely communication & assistance is key to our successful association with our students & our professors believe in same.

### ***GEPEA (Global Educational & Professional Excellence Academy)***

*In case any query, please feel free to contact us via E-Mail:  
[gepea.official@gmail.com](mailto:gepea.official@gmail.com) , [office@gepea.eu](mailto:office@gepea.eu) or visit Website: [www.gepea.eu](http://www.gepea.eu) or  
[www.gepea.education](http://www.gepea.education)*