UNIVERSITY OF RESEARCH AND ADVANCED STUDIES
GEORGETOWN, GUYANA

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Higher Diploma in OIL AND GAS

The University's Higher Diploma in the field of oil and gas, this Diploma in Oil and Gas Management was designed specifically with the aim of building management capacity within the petroleum industry.

- We will show you the complexities of management within the extractive industry and provide you with the opportunity to gain a strong understanding of the interconnections between the different value chains within the oil and gas industry, to help to prepare you for careers with a wide range of potential employers which could include national and multinational energy companies, consultancies, energy ministries and international agencies.
- This course aims to provide you with an understanding of the processes, drivers, threats and opportunities related to the management of the energy and hydrocarbon industry in the 21st century.
- You should develop the competence to safely and effectively manage projects in the oil and gas industries within the context of increasingly stringent environmental and safety legislation.
- You will have the option to apply for a 'work placement' opportunity, designed to further develop your skills and knowledge with the aim of maximising your employability prospects. See modules for more information.

Why you should study this course

- Expected to remain as a major contributor to the economy of many developed and developing regions, the oil and gas industry needs effective managers who not only appreciate the financial drivers and pressures but can also understand and interpret the effects of heightened safety regulations, policy changes, trade laws and global economics.
- Our course aims to equip graduates with the skills and knowledge to do just that; providing a comprehensive advanced-level introduction to the international operation of the upstream and downstream industry, exploring the key challenges and emerging technologies that are influencing exploration and production. So, if you are interested in a professional career in the energy and hydrocarbon industry or are already working in the industry and looking to update your skills, this professionally accredited course should benefit you regardless of whether you come from a technical, non-technical or commercial background.

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- Course highlights include the use of industry-standard simulation facilities and software, which support real-time scenarios linked to the management of industry-related emergencies. Furthermore, you can choose to specialise in one of four routes: Quality, Health, Safety and Environment; Finance and Investment; Law and Policy; and Technology Management.
- Our current extensive industry links mean that you could benefit from technical site visits[2] which have previously included the National Engineering Laboratory, Equinor (formerly Statoil), GE and Baker Hughes, as well as a range of free to attend expert guest lectures (subject to availability), which has previously included the former Vice President of British Petroleum.

Accreditation and professional recognition

This course is accredited and recognised by the following bodies:

Energy Institute (EI)

This course is fully accredited by the Energy Institute for the 24/25 intakes. This means that, on successful completion, you will have met the entry requirement for working towards MEI chartered professional status for the Energy Institute. Course content associated with the health and safety module has also been structured to mirror the Institute of Occupational Health and Safety (IOSH) syllabus on Managing Safely. On successful completion, in addition to your degree, this will offer you an opportunity to receive (free of charge) a professional certification: Managing Safely in the Oil, Gas and Energy Industry Certificate.

Chartered Management Institute (CMI)

Upon successful completion of the module, you will gain the CMI Level 7 Certificate in Strategic Management and Leadership Practice at no additional cost.

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Memberships

This course enables you to become student members of the Society of Petroleum Engineers (SPE) at no extra cost, and the European Association of Geoscientists and Engineers (EAGE), which is currently free for students under 29 years old (additional fees apply for those above this age).

What you'll study

We adopt a multidisciplinary approach, and all the mandatory modules incorporate various specialist areas, including petroleum contracts and economics, renewable energy, risk management and environmental management. The modules are focused on providing some of the essential skills needed in any profession, such as project management and quality control, marketing techniques, health and safety and professional development.

Modules

- Global Petroleum Industry – Perspective and Prospects – 15 credits
  This module aims to comprehensively explore oil and gas processes and activities from upstream to downstream. It will examine the supply chains from exploration through field development, production, transportation, processing, refining and marketing. It will also examine the future of the industry in the global economy and evaluate the changing dynamics of this industry with focus on strategic outlook of the industry.
  Compulsory
- Oil Spills Science, Response and Remediation – 15 credits
  This module aims to provide background knowledge of the governing processes that support the interpretation of output from spill trajectory analysis and help decision-making regarding best possible options to protect resources and direct clean-up operations.
  Compulsory
- Petroleum Contracts, Economics and Geopolitics – 15 credits
  The aim of the module is to review, analyse and evaluate the strategic policy impetus of petroleum fiscal regimes for the development of oil and gas resources globally. The Ricardian concept of economic rent is examined in the context of past and present petroleum contracts and its importance for the design of oil and gas fiscal regimes for attracting risk capital for resource development.

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Compulsory

- Principles of Applied Health and Safety Management System – 15 credits
  This module aims to equip you with the skills, knowledge and technical expertise to identify, assess, evaluate and manage the various risks and hazards associated with industry activities in a safe and legally acceptable way efficiently and effectively.
  Compulsory
- Project and Risk Management in the Energy Industry – 10 credits
  The intention of this module is to provide you with the knowledge to apply a range of techniques to the design and delivery of projects and risk management in the energy industry. The module provides a solid introduction to the key issues involved in managing projects and explores core project management tools, techniques and terminology. It will also convey the importance of risk management covering international standards and strategies in relation to management studies and core business objectives.
  Compulsory
- Energy and Carbon Trading – 15 credits
  The aim of this module is to provide a practical understanding and capability for structuring derivative contracts that are used in energy and carbon trading, marketing and risk management in today's dynamic energy landscape. The module applies cutting edge tool and techniques to the subject of energy trading, carbon accounting and trading whilst encouraging participants to think sustainability. It will explore mechanisms and tools for both physical and financial trading as it relates to crude oil, petroleum products, natural gas, electricity and carbon markets and provide a thorough understanding and practical approach to quantification and management of risk management tools.

  Compulsory
- Energy Finance, Investment and Decision Making – 10 credits
  This module presents a comprehensive training in investment analysis, financial management and decision making, with applications to all forms and sources of energy. It introduces you to the sources and techniques of oil, gas and energy project finance and reviews the associated risks and challenges.
  Compulsory
- Sustainability and Decommissioning – 15 credits

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The module is designed to provide you with the fundamental practice of oil and gas platforms decommissioning, and related opportunities and costs (financial and environmental). This module will assess these complex issues in line with the technical, financial, environmental and legal dimensions of decommissioning within the wider context of sustainability in the energy industry.
Compulsory

- Energy Transition in Oil and Gas Industry – 10 credits
  This module is aimed to study the current trends as the oil and gas sector responds to the challenges and opportunities from emerging technologies, sustainable energy indicators, process substitutability, policy frameworks, market instruments and decarbonisation strategies as energy industry undergo sustainable transition.
  Detailed analysis will be undertaken on the scale and pace of transformations of technology in economic and sustainable production of energy and the challenges and future developments. Contribution of countries and energy companies in exploring and diversifying their natural resources and integrating sustainable energy into their energy mix, as the energy industry progresses towards net-zero, will be discussed.
  Compulsory
- Research Project – 50 credits
  The module aims to extend your experience in independent investigative work with a view to enhancing your ability to solve technical and environmental problems. Research methods for technical and scientific investigations are included. Written presentation skills are developed as an integral part of the project.

  Compulsory
- Leading Diverse Workforces – 10 credits
  This module aims to provide you with a framework of knowledge and understanding of how to effectively lead and develop people in a strategically diverse and inclusive way. You will be given the opportunity to develop strategic priorities for leadership, equality, diversity and inclusion.
  Compulsory

With work placement pathway

The 'With work placement' opportunity[2] enables you to apply in semester 1 for an optional work placement of up to 12 months, extending the duration of your master's to 24 months. The placement provides an opportunity for you to develop expertise and experience in your chosen field with the aim of enhancing your employability upon graduation. The work placement would take place in semesters 3, 4 and 5.
Please note that the optional placement modules incur an additional tuition fee of US$3000. Placement opportunities may also be subject to additional costs, visa requirements being met, subject to availability and/or competitive application. Work placements are not guaranteed but you will benefit from the support of our Talent Team in trying to find and secure an opportunity. Find out more about the work placement option.
We regularly review our course content, to make it relevant and current for the benefit of our students. For these reasons, course modules may be updated.

How you'll learn

Teaching and learning methods may include:

- Lectures
- Seminars
- Tutorials
- Presentations
- Group projects
- Workshops
- Practical laboratory and simulation sessions[4]

Content includes a blend of technical, theoretical and practical topics designed to develop real-life skills and knowledge for new and existing practitioners. Consequently, we place considerable emphasis on the use of actual policy documents, case study material, site visits[2] and the use of guest speakers (subject to availability) to provide real-life material. Interesting case studies have, for example, previously included real-life portfolio rationalisation of international oil and gas assets and petroleum contract negotiation using African and American case studies.
This course can be studied on a full-time or part-time basis or by on Line. Whilst we would like to give you all the information about our part-time offering here, it is tailored for each course each year depending on the number of part-time applicants. Therefore, the part-time teaching arrangements will vary.

Teaching contact hours

The number of contact hours may vary from semester to semester, however, on average, it is likely to be around 20 contact hours per week in the taught semesters. Additionally, you will be expected to undertake significant self-directed study of approximately 35 hours each week (20 hours per week in the project-based semester), depending on the demands of individual modules.

As an innovative and enterprising institution, the university may seek to utilise emerging technologies within the student experience. For all courses (whether on-campus, blended, or distance learning), the university may deliver certain contact hours and assessments via online technologies and methods.

In response to the COVID-19 pandemic, we are prepared for courses due to start in or after the 2023/2024 academic year to be delivered in a variety of forms. The form of delivery will be determined in accordance with Government and Public Health guidance. Whether on campus or online, our key priority is staff and student safety.

Assessment

This course will be assessed using a variety of methods which will vary depending upon the module.

Assessment methods may include:

- Tests
- Essays
- Presentations
- Coursework and Examinations

The Coventry University assessment strategy aims to ensure that our courses are fairly assessed and allows us to monitor student progression towards achieving the intended learning outcomes.

International experience opportunities

Our current strong relationship with industrial collaborators may provide you with access to a wide range of national and international workshops and conferences run by the many professional bodies[2].

We encourage you to take advantage of these opportunities to try and build your technical capacity, establish networks and meet potential collaborators and employers.

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Our students have the opportunity to attend the International Petroleum Conference and Exhibition in the United Arab Emirates, the Artificial Lift Conference and Exhibition in North America, the Society of Petroleum Engineers (SPE) Intelligent Energy Conference in the UK and the SPE International Conference and Exhibition on Health, Safety, Security, Environment and Social Responsibility in Norway.

Entry requirements

Full Time 12 Months
On Line or Part Time 15 Months
Fees: US$15,000.00
Applicants should hold a minimum of a Diploma or Certificate in a relevant subject. HND holders with at least five years working experience in the oil and gas industry may also be considered.
We recognise a breadth of qualifications; speak to one of our advisers today to find out how we can help you.