



**THE CYPRUS INTERNATIONAL INSTITUTE OF MANAGEMENT**  
**COURSE UNIT DESCRIPTION**

Course Unit Title	<b>Oil &amp; Gas Finance, Accounting, and Green Management</b>															
Course Unit Code	GD650															
Type of Unit	Elective															
Level of Course Unit	Second cycle															
Year of Study	First/second year															
Semester	On demand															
Number of ECTS Credits	6 ECTS															
Course Unit Objectives	<p>The objective of this course is to provide students with in-depth knowledge of financial &amp; accounting aspects of oil and gas exploration and production and to equip them with critical knowledge on green management, costing and taxation in the oil and gas sector while considering the economics of oil and gas markets, oil and gas policies and regulatory framework as well as the national and international business environment.</p> <p>Through their lifecycle, oil and gas operations intersect the entire ecosystem including water, soil, air and the human environment. Leveraging best management practices at every phase helps keep operations profitable and sustainable while mitigating damage to the natural environment that may negatively impact operations in the future. Part of this course focuses on best management practices for exploration and production sites and pipelines, the impact and regulation of oil spills, solids disposal and monitoring, emissions and gas flaring,</p> <p>Learning throughout the course will be reinforced by case studies, worked examples, and illustrative extracts from oil and gas company annual reports.</p>															
Learning outcomes	<p>On completion of this course students are expected to:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">CILO 1</td> <td>Critically assess concepts and principles underlining operation of oil and gas markets and apply the green management principles to Oil and Gas exploration and production</td> </tr> <tr> <td>CILO 2</td> <td>Identify the unique features of oil and gas exploration and production activities and critically evaluate the use of historical cost methods, depreciation, depletion and amortization methods, and asset impairment considerations that underpin the preparation of accounts for oil and gas exploration and production companies.</td> </tr> <tr> <td>CILO 3</td> <td>Analyze and appraise alternative oil and gas investments and projects using financial data, valuation models, risk considerations and relevant non-financial information for viability,</td> </tr> <tr> <td>CILO 4</td> <td>Evaluate the implications of alternative project financing arrangements and risk management.</td> </tr> <tr> <td>CILO 5</td> <td>Understand the financial information disclosed in oil &amp; gas the annual report and accounts of oil companies and be able to provide sound rationale and clearly communicate to relevant stakeholders the basis for accounting, reporting and disclosure, operational considerations, financial implications etc.</td> </tr> <tr> <td>CILO 6</td> <td>Analyze the environmental risks from Oil and Gas operations, and propose strategies for integrating environmental considerations.</td> </tr> <tr> <td>CILO 7</td> <td>Able to demonstrate how environmental challenges and green management can lead to cost savings and greater profitability for oil and gas companies</td> </tr> </table>		CILO 1	Critically assess concepts and principles underlining operation of oil and gas markets and apply the green management principles to Oil and Gas exploration and production	CILO 2	Identify the unique features of oil and gas exploration and production activities and critically evaluate the use of historical cost methods, depreciation, depletion and amortization methods, and asset impairment considerations that underpin the preparation of accounts for oil and gas exploration and production companies.	CILO 3	Analyze and appraise alternative oil and gas investments and projects using financial data, valuation models, risk considerations and relevant non-financial information for viability,	CILO 4	Evaluate the implications of alternative project financing arrangements and risk management.	CILO 5	Understand the financial information disclosed in oil & gas the annual report and accounts of oil companies and be able to provide sound rationale and clearly communicate to relevant stakeholders the basis for accounting, reporting and disclosure, operational considerations, financial implications etc.	CILO 6	Analyze the environmental risks from Oil and Gas operations, and propose strategies for integrating environmental considerations.	CILO 7	Able to demonstrate how environmental challenges and green management can lead to cost savings and greater profitability for oil and gas companies
CILO 1	Critically assess concepts and principles underlining operation of oil and gas markets and apply the green management principles to Oil and Gas exploration and production															
CILO 2	Identify the unique features of oil and gas exploration and production activities and critically evaluate the use of historical cost methods, depreciation, depletion and amortization methods, and asset impairment considerations that underpin the preparation of accounts for oil and gas exploration and production companies.															
CILO 3	Analyze and appraise alternative oil and gas investments and projects using financial data, valuation models, risk considerations and relevant non-financial information for viability,															
CILO 4	Evaluate the implications of alternative project financing arrangements and risk management.															
CILO 5	Understand the financial information disclosed in oil & gas the annual report and accounts of oil companies and be able to provide sound rationale and clearly communicate to relevant stakeholders the basis for accounting, reporting and disclosure, operational considerations, financial implications etc.															
CILO 6	Analyze the environmental risks from Oil and Gas operations, and propose strategies for integrating environmental considerations.															
CILO 7	Able to demonstrate how environmental challenges and green management can lead to cost savings and greater profitability for oil and gas companies															
Name of Lecturer(s)	Professor Reza Kouhy, Head of Division of Accounting, Finance and Economics, Dundee Business School, Division of Accounting Finance and Economics															

Mode of delivery	Face to Face	
Prerequisites	GD200 Foundations of Accounting and Finance	
Content	<u>Overview</u> The International Oil& Gas Markets Oil and Gas Financial/Economic characteristics and Price Drivers; The Business of Exploration & Production of Oil & Gas; Green transition and green management in Oil & Gas.	CILO 1
	Accounting: Treatment of Exploration and Development Costs, Reserves, Production and Cost of Sales Risk and Cost Sharing Arrangements	CILO 2 &3
	Financial & Risk Management Investment appraisal techniques Valuation Principles & Models	CILO 3 & 4
	Financial Analysis, Budgets, Accounts & Management Reports of Oil & Gas Companies Alternative Financing Arrangements and their Implications	CILO 4 &5
	Environmental risks from Oil and Gas operations, and strategies for integrating environmental considerations in Oil & Gas exploration, production and transport	CILO 6
	Climate change and the Oil & Gas industry Carbon reduction methods	CILO 6 &7
	How environmental challenges and green management can lead to cost savings and greater profitability for oil and gas companies	CILO 7
Recommended or required reading	<u>WRIGHT, C. J., 2016. Fundamentals of Oil and Gas Accounting. 6th ed. Tulsa, OK: PennWell</u>  <u>SIMKINS, B. J. and SIMKINS, R. E., 2013. Energy finance and economics: analysis and valuation, risk management, and the future of energy. Hoboken: John Wiley. ebook</u>  <u>ANTILL, N. and ARNOTT, R., 2000. Valuing oil and gas companies: a guide to the assessment and evaluation of assets, performance and prospects. 2nd ed. Sawston: Woodhead, Publishing Limited.</u>  <u>JAHN, F., COOK, M. and GRAHAM, M., 2008. Hydrocarbon exploration and production. 2nd ed. Amsterdam: Elsevier.</u>  <u>The Oil and Gas Industry in Energy Transitions, World Energy Outlook special report, January 2020 <a href="https://www.iea.org/reports/the-oil-and-gas-industry-in-energy-transitions">https://www.iea.org/reports/the-oil-and-gas-industry-in-energy-transitions</a></u>  <u>Green Petroleum: How Oil and Gas Can Be Environmentally Sustainable M. R. Islam, A. B. Chhetri, M. M. Khan</u>  <u>Oil and gas going green: Can environmental challenges lead to cost savings and greater profitability? R&amp;D Solutions for Oil and Gas, WHITE PAPER <a href="https://www.elsevier.com/_data/assets/pdf_file/0020/521543/Oil-and-gas-going-green.pdf">https://www.elsevier.com/_data/assets/pdf_file/0020/521543/Oil-and-gas-going-green.pdf</a></u>  <u>E-Books: Environmental management in oil and gas exploration and production, UNEP Technical Publication</u>	

Planned learning activities and teaching methods	Lectures; in-class discussion and debates; in-class exercises; problem sets; team work; video case studies, team presentations, interactive online learning via Moodle (quizzes, assignments, forums)
Assessment methods and criteria	Class Participation:20% Final assignment: 80%
Language of Instruction	English
Work Placement(s)	Not applicable