Course Title	**Shipping Management**				
Course Code	**IM683**				
Course Type	**Major Elective**				
Level	BSc/1st Cycle				
Year / Semester	4TH/8TH				
Teacher's Name	Giannis Chatzis				
ECTS	7.5	Lectures / week	3 hours	Laboratories / week	-
Course Purpose and Objectives	This course introduces the framework and practices on various aspects of ship management, and marketing management for the shipping firm. The tools for financial analysis of shipping investments are also introduced.				
Learning Outcomes	Upon completion of the course, students should be able to understand the functions and activities of different aspects of ship management. They shall learn the concepts, functions and strategies of marketing for the shipping firm. Students shall also learn the financial analysis tools in making shipping investments.				
Prerequisites		Required	-		
Course Content	1 Fleet and ship management: major activities 2 Third-party ship management firms 3 Technical management 4 Managing ship's husbandry 5 Discounted cash flow analysis 6 Capital budgeting and the weighted average cost of capital 7 Marketing: basic concepts 8 Marketing strategic planning; market definition 9 Promotional strategy: the promotional mix and advertising management 10 Publicity; sales promotion & their role in the shipping industry				
Teaching Methodology	Lectures.				
Bibliography	**Essential Reading** Willingale, Malcolm (2005) Ship Management, 4th ed., LLP Ltd				
Assessment	Assignments, Final Exam				
Language	English				

Course Title	**Introduction to Oil and Gas**				
Course Code	**MOG571**				
Course Type	**Major Elective**				
Level	BSc/1st Cycle				
Year / Semester	2nd/4th				
Teacher's Name	Zacharias Petrou				
ECTS	7.5	Lectures / week	3 hours	Laboratories / week	
Course Purpose and Objectives	The main objectives of the course are to: • Introduce the students to petroleum technology and its importance to society • Familiarize students with a range of terminology used in petroleum engineering • Familiarize students with the fundamental concepts of petroleum engineering namely petroleum geology, reservoir engineering, drilling and production methods and resource evaluation • Describe how wells are drilled and fluids extracted to the surface • Discuss how production strategies can be designed to optimize recovery • Discuss oil economics and distribution systems • Introduce students to laboratory experiments and simulation tools				
Learning Outcomes	After completion of the course students will be able to: • Demonstrate the competencies and skills acquired to function as a petroleum engineer • Describe the principle phases of the petroleum engineering function • Understand the structure and composition of the Earth and its impact on the development of petroleum systems • Describe the latest techniques of exploration, drilling, reservoir engineering, production and refinery operations • Be familiar with the principle types of subsurface geology, how data can be extracted and how they can be used to estimate hydrocarbon volumes • Discuss how reservoir fluids and gasses flow in the subsurface and how recovery can be optimized • Discuss petroleum production statistics, products and markets, oil economics, supply systems and product applications. • Describe the unconventional sources of oil and gas recourses				

	• Describe the chemical synthesis of oil, natural gas, biofuels, alternative fuels		
Prerequisites		Required	
Course Content	• The nature of gas and oil • The Earth's crust - where we find it • Identification of common rocks and minerals • Deformation of sedimentary rocks • Ocean environment and plate tectonics • Sedimentary rock distribution • Mapping • Source rocks, generation, migration, and accumulation of petroleum • Reservoir rocks • Petroleum traps • Petroleum exploration – geological, geochemical and geophysical • Drilling a well - the mechanics • Drilling problems and techniques • Testing and completing a well • Surface treatment and storage • Offshore • Workover • Reservoir mechanics • Petroleum production • Reserves • Improved oil recovery • Unconventional oil and gas Laboratory: a) Introduction to Instrumental Methods of Analysis b) Hyphanated analytical instrumentation c) Demonstrations d) Software simulation		
Teaching Methodology	Lectures, in-class examples, exercises, Laboratory practical sessions		
Bibliography	Norman J. Hyne Nontechnical Guide to Petroleum Geology, Exploration, Drilling, and Production Penn Well 2012 978-1-59370- 269-4 Joseph Hilyard The Oil & Gas Industry: A Nontechnical Guide PennWell 2012 978-1-59370- 254-0		
Assessment	Final Exams 60% Assignment/labs 40%		

Language	English