Course unit title:	Oil & Gas Geology and Reservoir Characterization
Course unit code:	OG200
Type of course unit:	Compulsory
Level of course unit:	B.Sc
Year of study:	2 nd
Semester when the	4 th Semester
unit is delivered:	
Number of ECTS	5
credits allocated :	
Name of tentative	Dr. Chatzichristos Christos
lecturer(s):	A Manually for deposit the state the sector of the sector
Learning outcomes	Know the fundamentals about the rocks containing hydrocarbons Know about the hydrocarbone formation and migration.
of the course unit:	Know about the hydrocarbons formation and migration Know about Oil & Gas offshore and Onshore exploration
	Know about the Estimation and Classification of reserves
Mode of delivery:	Face-to-face
Prerequisites:	None Co-requisites: None
Recommended	Trone Co requisites. Trone
optional program	
components:	
Course contents:	Geology of Hydrocarbons
	Sediments and Sedimentary rocks
	Depositional Environment
	Aspects of Structural Geology
	H/C formation, migration and entrapment
	2. Hydrocarbon Exploration
	Geological Surveys
	Seismic Exploration
	Gravitational Methods
	Exploratory Wells
	• Logging _
	3. Hydrocarbon Reserves
	H/C reserves estimation
	H/C reserves Classification
	4. Field development and Recovery methods
	Field development planning Primary receivers mathedes
	Primary recovery methodsSecondary recovery methods
	Secondary recovery methods Enhanced oil Recovery
Recommended	Petroleum Engineering Handbook, by L.W.Lake, SPE, 2007.
and/or required	I Stroisum Engineering Handbook, by E.W.Lake, of E, 2007.
reading:	
Textbooks:	1. Fundamentals of Reservoir Engineering (Developments in Petroleum Science),
	by L.P. DAKE, Elsevier, 1st edition 1978, last edition 2010.
Software:	
References:	Petroleum Production Systems, by Michael Economides, Daniel Hill, Christine
recicionoco.	Ehlig-Economides, Prentice Hall petroleum Engineering Series, 1994.
Planned learning	
activities and	The taught part of course is delivered to the students by means of lectures and
teaching methods:	video presentations, conducted with the help of computer. Lecture notes and
· ·	presentations will be available through the web for students to use in combination
	with the textbooks. Lectures will be supplemented by homework assignments and readings.
Assessment	
methods and criteria:	Assignments 25%Mid-Term Exam: 25%
motriodo dila oritoria.	• Final Exam 60%
Language of	English
Language of	Lityion

instruction:	
Work placement(s):	No