



# Module Layout XMП522: Fossil Fuels and Air Pollution

Faculty	Code	Faculty of Pure and Applied Sciences			
Programme of Study	ХМП	Sustainable Environmental Engineering			
Module	ХМП522	Fossil Fuels and Air Pollution			
Level of Study	Undergraduate			Graduate	
			Master		Doctoral
		X			
Language of Instruction	Greek				
Mode of Delivery	Distance				
Module Type	Required			Electives	
	X				
Number of Group Consulting Meetings	7	otal Physical Presenc		Presence	Online
		13	0		13
Number of Assignments	1				
Final Grade Calculation	Assig	gnments Weekly A		ctivities	Final Exam
	3	30 <b>%</b> 10 <b>%</b>		60 <b>%</b>	
Number of European Credit Transfer System (ECTS)	10				

#### Module Description

The proposed course aims to study the procedures applied in the oil and gas industry. In particular, the basic elements and processes related to the formation of hydrocarbons, exploration, production and the downstream sectors of the oil and gas industry are studied. The course covers oil formation and trapping, geological exploration methods, drilling, appraisal and production. In addition, it covers the fundamentals of natural gas processing, crude oil refining, and petrochemical production. It also includes the challenges of distribution and organization in this sector while analyzing the environmental problems associated with the oil and gas sector and the alternative fuels available today. Furthermore, it is analyzing issues related to air pollution and possible methods and technology to minimize its environmental impacts. In summary, the course provides the student with specific knowledge of geology, rock and mineral formation, the technologies involved in the oil and gas sector, and the operating processes of the industry.

## Pre-requisite Modules

Not applicable

## **Co-requisite Modules**

Not applicable

#### Grading Scheme Percentage on Workload Assessment Method Final Grade **ECTS** Hours 140-160 Weekly Study 4.5 13 weeks \* ~11 study hours 10% ~13 0.5 Weekly Interactive Activities 13 weeks \* ~1 hour of work 30 % 5.0 Assignment 80 - 100 Final/Repeat Examination 60 % 3 ---

100%

250-300

Total

10



#### Grading Rules and Assessment methods

- Students are evaluated with 10, if they earn 100% of the possible grade. ٠
- Students are evaluated with 9, if they earn 90% of the possible grade, I.e. 90%\*10=9, etc. •
- · Passing rate
  - 50% of the Assignment
    50% of the Interactive Activities

  - o Students are allowed to participate in the final exam of a Module if they have overall earned the minimum grade (≥ 50 %) in both their Assignment and Interactive Activities
  - 50% of the Final exam

If a student earns a grade with decimal points, then it is rounded to the nearest half unit.