
COURSE: ENVIRONMENTAL IMPACT PETROLEUM EXPLOITATION

ACADEMIC YEAR: 2017-2018

TYPE OF EDUCATIONAL ACTIVITY: Free choice

TEACHER: Albina Colellae-mail: albina.colella@unibas.itwebsite: scienze.unibas.it/site/home.html.

phone:

mobile: 392 2416997

Language: English

ECTS: 6
(4 lessons, 2 practice)n. of hours: 56
(32 lessons, 24 lab activities)Campus: Potenza
Dept/School: Dipartimento di
Scienze
Program: Geosciences and
Georesources (LM74)Semester II:
06/03/2018
15/06/2018

EDUCATIONAL GOALS AND EXPECTED LEARNING OUTCOMES

The course will provide an advanced knowledge of the environmental impacts produced by the petroleum industry, with particular attention to fragile territories, populated, rich of natural resources and subject to high seismic hazard. Students will acquire informations on the: 1) environmental impacts of onshore and offshore oil and gas exploration, drilling, production and transport; 2) environmental remediation, identification of appropriate mitigation measures.

PRE-REQUIREMENTSBSc on Geological Sciences and on Environmental Engineering or comparable

SYLLABUS

The main topics of the course are:

petroleum, exploration, drilling, production and transport. Impacts of offshore petroleum activities: predisposing causes, natural triggering causes, sources and centers of danger, oil spills, carriers of oil pollution at sea, evolution and behaviour of oil spills at sea, impacts and subjects at risk, values, damages and costs. Environmental protection, operations, minimizations. Organization. Impacts of onshore petroleum activities: impacts and consequences, predisposing causes, natural triggering causes, sources and centers of danger, carriers of pollution, impacts and subjects at risk, values, damages and costs, safeguards and remedies.

TEACHING METHODSTheoretical lessons, classroom tutorials, field tutorials.

EVALUATION METHODSOral examination, presentation and discussion of a report.

TEXTBOOKS AND ONLINE EDUCATIONAL MATERIAL

- Civita, M. e Colella, A., 2015 - L'Impatto Ambientale del Petrolio a Mare e a Terra. Galaad Edizioni.
 - Video online
-

INTERACTION WITH STUDENTSStudents may contact the teacher by phone, mail or appointment

EXAMINATION SESSIONS (FORECAST)¹18/01/2018; 14/02/2018; 08/03/2018; 17/05/2018; 04/07/2018; 19/07/2018; 26/09/2018;
10/10/2018; 11/12/2018

SEMINARS BY EXTERNAL EXPERTS SI **NO**