

UNIVERSITY: PETROLEUM-GAS OF PLOIESTI
 FACULTY: MECHANICAL AND ELECTRICAL ENGINEERING
 CICLE OF STUDY: : MASTER
 FIELD: MECHANICAL ENGINEERING

Revision ____ from ____

2023-2024

PROGRAMME OF STUDY - Abreviation: RISK MANAGEMENT AND RELIABILITY ENGINEERING OF PETROLEUM SYSTEMS - MMRFZ

CURRICULUM - 1st YEAR

No.	Course unit name	Formative category of the course: DF, DD, DS, DC ¹	NOAD / week				Hours / semester			ECTS credits	Assessment form	
			C	S	L	P	NOAD/sem					
							C	S,L,P	Total			
A. COMPULSORY (C) AND OPTIONAL (O) COURSES												
SEMESTER 1												
1	Ethics and academic integrity	DC	1	0	0	0	14	0	14	86	4	V1
2	Theoretical and experimental research methodology	DF	1	1	0	0	14	14	28	72	4	V1
3	Management of industrial technology	DF	2	0	1	0	28	14	42	58	4	E1
4	Corrosion of petroleum equipment	DS	2	0	1	0	28	14	42	83	5	E1
5	Management of industrial technology - project	DF	0	0	0	2	0	28	28	72	4	P1
6	Degradation processes of technical systems	DD	2	0	1	0	28	14	42	83	5	E1
7	Professional training 1*	DS	0	0	0	0	0	60	60	40	4	V1
	TOTAL		8	1	3	2	112	144	242	494	30	³ E1+3V1+P1
SEMESTER 2												
8	Reliability of petroleum systems	DD	2	0	1	0	28	14	42	108	6	E2
9	Quality engineering and management	DF	2	0	2	0	28	28	56	119	7	E2
10	A. Monitoring and diagnosis of technological systems / B. Security and technical risk	DS	2	0	2	0	28	28	56	119	7	E2
11	Maintenance of petroleum systems	DS	2	0	1	0	28	14	42	108	6	E2
12	Professional training 2*	DS	0	0	0	0	0	60	60	40	4	V2
	TOTAL		8	0	6	0	112	144	256	494	30	4E2+1V2
B. ELECTIVE (E) COURSES												
SEMESTER 1												
13	Advanced materials and technologies for the manufacture of petroleum equipment	DS	1	0	2	0	14	28	42	58	4	V1
SEMESTER 2												
14	Policies and strategies in the petroleum industry	DC	2	1	0	0	28	14	42	58	4	V1

¹: DF - fundamental; DD - domain; DS - specialty; DC - complementary;

*) partially assisted courses.

NOAD/week - number of hours of direct teaching activities per week; NOAD/sem. - number of hours of direct teaching activities per semester;
 NOSI/sem. - number of hours of individual study per semester

RECTOR,

Prof.habil. Florinel DINU, Ph.D. Eng.

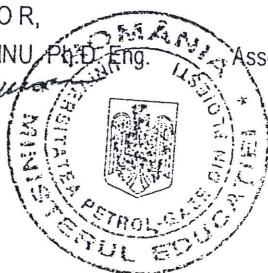
DEAN,

Assoc. Prof. Alin DINITA, Ph.D. Eng.

PROGRAMME COORDINATOR,

Prof. Marius Gabriel PETRESCU, Ph.D. Eng.

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PROGRAMME OF STUDY - Abreviation: RISK MANAGEMENT AND RELIABILITY ENGINEERING OF PETROLEUM SYSTEMS - MMRFZ

CURRICULUM - 2nd YEAR

No.	Course unit name	Formative category of the course: DF, DD, DS, DC ¹	NOAD / week				Hours / semester			ECTS credits	Assessment form	
			C	S	L	P	NOAD/sem					
							C	S,L,P	Total			
A. COMPULSORY (C) AND OPTIONAL (O) COURSES												
SEMESTER 3												
15	A. Research&Development&Innovation management and technology transfer / B. Flexible systems for the manufacture of petroleum equipment	DS	2	0	2	0	28	28	56	69	5	E3
16	A. Monitoring and diagnosis of technological systems - project / B. Security and technical risk - project	DS	0	0	0	2	0	28	28	72	4	P3
17	Integrity of petroleum systems	DS	1	0	2	0	14	28	42	83	5	E3
18	Project management for petroleum systems	DD	1	0	2	0	14	28	42	58	4	E3
19	Project management for petroleum systems - project	DD	0	0	0	2	0	28	28	72	4	P3
20	Internship (for dissertation)*	DS	0	0	0	0	0	60	60	40	4	V3
21	Elaboration of dissertation paper*	DS	0	0	0	0	0	60	60	40	4	V3
22	Graduation of the dissertation		0	0	0	0	0	0	0	0	10	ED
TOTAL			4	0	6	4	56	260	316	434	30+ 10	3E3+2V3+ 2P3+1ED
SEMESTER 4												
TOTAL												
B. ELECTIVE (E) COURSES												
SEMESTER 3												
21	Legislation in the petroleum industry	DC	2	1	0	0	28	14	42	58	4	V3
SEMESTER 4												

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