

UNIVERSITY: PETROLEUM-GAS OF PLOIESTI

Revision 2 from 2020

FACULTY: MECHANICAL AND ELECTRICAL ENGINEERING

CICLE OF STUDY: : MASTER

FIELD: MECHANICAL ENGINEERING

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			NOSI/sem		
							C	S,L,P	Total			
A. COMPULSORY (C) AND OPTIONAL (O) COURSES												
SEMESTER 1												
1	Computer Assisted Engineering	DC	2	2	0	0	28	28	56	94	5	E1
2	Advanced Technologies of Petroleum and Gas	DF	1	2	0	0	14	28	42	108	5	V1
3	Intelligent Measurement & Control Systems	DF	2	0	1	0	28	14	42	108	5	E1
4	Technical Decision Making and Risk Analysis	DF	2	1	0	0	28	14	42	108	5	V1
5	Quality Engineering and Management	DF	1	0	2	0	14	28	42	108	5	E1
6	Professional training 1*	DS	0	0	0	8	0	60	112	38	5	V1
TOTAL hours assisted			8	5	3	0	112	84	168	564	30	3E1+3V1
TOTAL hours partial assisted			8									
SEMESTER 2												
7	Petroleum and Gas Industry Processes	DF	1	0	1	0	14	14	28	122	5	V2
8	Energy Management and RES	DF	2	0	2	0	28	28	56	94	5	E2
9	Optimization and Monitoring of Drilling-Production Processes	DS	2	0	1	0	28	14	42	108	5	V2
10	Optimal Operation Engineering of Petroleum Equipment	DS	2	0	2	0	28	28	56	94	5	E2
11	Theoretical and Experimental Research Methodology	DS	2	0	1	0	28	14	42	108	5	E2
12	Professional training 2*	DS	0	0	0	8	0	112	112	38	5	V2
TOTAL hours assisted			9	0	7	0	98	196	294	456	30	4E2+2V2
TOTAL hours partially assisted			8									
B. ELECTIVE (E) COURSES												
SEMESTER 1												
1	Advanced materials and technologies for the manufacture of petroleum equipment	DS	1	0	2	0	14	28	42	58	4	V1
SEMESTER 2												
2	Policies and strategies in the petroleum industry	DC	2	1	0	0	28	14	42	58	4	V1

¹ : DF - fundamental; 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,

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

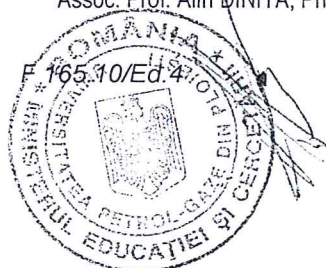
DEAN,

Assoc. Prof. Marius BĂDICIOIU, Ph.D. Eng.

PROGRAMME COORDINATOR,

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

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Revision ____ from ____
 VALABIL IN 2025-2026

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			NOS/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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*) partially assisted courses.

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 NOS/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.