

PLAN DE INVATAMANT 2019-2023; 2020-2024; 2021-2025

- Studii universitare de licenta -

Domeniul: **INGINERIE MECANICA**

Programul: **INGINERIE MECANICA IN LIMBA ENGLEZA**

Denumire RO		An 1/Sem 1	Ver	C	S	L	P	ECTS	Tip	Cat
1	1	UPB.12.F.01.O.001EM Analiza matematica I	Calculus I	E	3	2		6	F	O
2	2	UPB.12.F.01.O.002EM Algebra liniara	Linear Algebra	E	2	2		4	F	O
3	3	UPB.12.F.01.O.003EM Grafica ingineriasca I	Engineering Graphics I	C	1		2	4	F	O
4	4	UPB.12.F.01.O.004EM Chimie generala	Chemistry	E	2	1		3	F	O
5	5	UPB.12.T.01.O.005EM Stiinta materialelor I	Materials Science I	E	2		1	4	T	O
6	6	UPB.12.S.01.O.006EM Comunicare profesionala (in lb. engleza)	Professional Communication	C		2		2	S	O
7	7	UPB.12.C.01.O.007EM Cultura si Civilizatie Europeana I	European Culture & Civilization I	C	1	1		2	C	O
DISCIPLINE OPTIONALE										
8	8	UPB.12.F.01.A.008EM Informatica aplicata	Applied Informatics	C	2		2	3	F	A
		UPB.12.F.01.A.009EM Matematici discrete	Discrete Mathematics	C	2	2		3		
9	9	UPB.12.C.01.A.010EM Educatie fizica I	Physical Education I	V			2	2	C	A
		UPB.12.C.01.A.011EM Limba straina b. (Franceza/Germana/Spaniola)	Foreign Language b (French/German/Spanish)	V		2		2		
DISCIPLINE FACULTATIVE										
	10	UPB.12.C.01.L.012EM Limba engleză pentru studii academice ingineresti I	English for Engineering Academic Study I	V	1	1		2	C	L
	11	UPB.12.C.01.L.013EM Limba si cultura romana (pentru straini) I	Romanian Language (for foreign students) I	V		2		2	C	L
	12	UPB.12.C.01.L.014EM Limba franceza pentru ingineri I	Langue francaise pour ingenieurs I	V		2		2	C	L
	13	UPB.12.C.01.L.015EM Psihologie educatiionala	Psihologie educatiionala	E	2	2		5	C	L
TOTAL sem 1:				28	13	8	7	0	30	

Denumire RO		An 1/Sem 2	Ver	C	S	L	P	ECTS	Tip	Cat
10	1	UPB.12.F.02.O.001EM Analiza matematica II	Calculus II	E	3	2		6	F	O
11	2	UPB.12.F.02.O.002EM Fizica I	Physics I	E	2	1	1	5	F	O
12	3	UPB.12.T.02.O.003EM Mecanica I	Mechanics I	E	2	1		3	T	O
13	4	UPB.12.F.02.O.004EM Grafica ingineriasca II	Engineering Graphics II	C	2		2	4	F	O
14	5	UPB.12.F.02.O.005EM Limbaje de programare	Programming Languages	E	1		2	3	F	O
15	6	UPB.12.T.02.O.006EM Stiinta materialelor II	Materials Science II	E	2		1	3	T	O
16	7	UPB.12.S.02.O.007EM Comunicare în echipă I	Collaborative Work I	C		2		2	S	O
DISCIPLINE OPTIONALE										
17	8	UPB.12.C.02.A.008EM Cultura si Civilizatie Europeana II	European Culture & Civilization II	C	1	1		2	C	A
		UPB.12.C.02.A.009EM Etica si Integritate Academica	Ethics and Academic Integrity	V	1	1		2		
18	9	UPB.12.C.02.A.010EM Educatie fizica II	Physical Education II	V			2	2	C	A
		UPB.12.C.02.A.011EM Limba straina b. (Franceza/Germana/Spaniola)	Foreign Language b (French/German/Spanish)	V		2		2		
DISCIPLINE FACULTATIVE										
	10	UPB.12.C.02.L.012EM Limba engleză pentru studii acad	English for Engineering Academic Study II	V	1	1		2	C	L
	11	UPB.12.C.02.L.013EM Limba si cultura romana (pentru straini) II	Romanian Language (for foreign students) II	V		2		2	C	L
	12	UPB.12.C.02.L.014EM Limba franceza pentru ingineri II	Langue francaise pour ingenieurs II	V		2		2	C	L
	13	UPB.12.C.02.L.015EM Pedagogie 1	Pedagogie 1	E	2	2		5	C	L
TOTAL sem 2:				28	13	9	6	0	30	
TOTAL AN I:				56	26	17	13	0	60	

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Denumire RO **An 2/Sem 3** Ver C S L P ECTS Tip Cat

19	1	UPB.12.F.03.O.001EM	Matematici speciale I	Mathematics for Engineers I	E	2	2			5	F	O
20	2	UPB.12.F.03.O.002EM	Probabilitati si Statistica	Probabilities & Statistics	E	2	1			2	F	O
21	3	UPB.12.F.03.O.003EM	Fizica II	Physics II	E	2		1		4	F	O
22	4	UPB.12.T.03.O.004EM	Rezistenta materialelor I	Strenght of Materials I	E	2	1	1		4	T	O
23	5	UPB.12.S.03.O.005EM	Introducere in ingineria mecanica	Introduction to Mechanical Enginee	C	1		2		4	S	O
24	6	UPB.12.T.03.O.006EM	Electrotehnica	Electrical engineering I	E	2		1		3	T	O
25	7	UPB.12.T.03.O.007EM	Mecanica II	Mechanics II	E	2	1	1		4	T	O
26	8	UPB.12.S.03.O.008EM	Comunicare în echipă II	Collaborative Work II	C		2			2	S	O
27	9	UPB.12.C.03.O.009EM	Microeconomie	Microeconomics	C	1	1			2	C	O
DISCIPLINE FACULTATIVE												
10	10	UPB.12.C.03.L.010EM	Limba si cultura romana (pentru straini) III	Romanian Language (for foreign students) III	V		2			2	C	L
11	11	UPB.12.C.03.L.011EM	Pedagogie 2	Pedagogie 2	E	2	2			5	C	L
TOTAL sem 3:					28	14	8	6	0	30		

Denumire RO **An 2/Sem 4** Ver C S L P ECTS Tip Cat

28	1	UPB.12.F.04.O.001EM	Tehnologia materialelor	Material Technology	E	2		1		3	T	O
29	2	UPB.12.T.04.O.002EM	Mecanica III	Mechanics III	E	1	1			2	T	O
30	3	UPB.12.T.04.O.003EM	Rezistenta materialelor II	Strenght of Materials II	E	2	1			3	T	O
31	4	UPB.12.T.04.O.004EM	Procedee de fabricatie I	Manufacturing Processes I	C	2		1		3	T	O
32	5	UPB.12.T.04.O.005EM	Organe de masini si mecanisme I	Machine Elements & Mechanisms I	E	2		1		4	T	O
33	6	UPB.12.F.04.O.006EM	Metode numerice	Numerical Methods	C	2		2		5	F	O
34	7	UPB.12.S.04.O.007EM	Instrumente software in ingineria mecanica I (design corp solid)	Software Tools for Mechanical Engineering I (solid body design)	C	1		2		3	S	O
35	8	UPB.12.S.04.O.008EM	Comunicare tehnica	Technical writing	C		2			2	S	O
36	9	UPB.12.C.04.O.009EM	Macroeconomie	Macroeconomics	C	1	1			2	C	O
DISCIPLINE OPTIONALE												
37	10	UPB.12.T.04.A.010EM	Masini si aparate electrice	Electrical engineering II (Electrical machines)	E	2		1		3	T	A
		UPB.12.T.04.A.011EM	Masurari electrice si transductoare	Electrical measurements & Transducers	E	2		1		3		
DISCIPLINE FACULTATIVE												
11	11		Limba si cultura romana (pentru straini) IV	Romanian Language (for foreign students) IV	V		2			2	C	L
12	12		Didactica specialitatii	Didactica specialitatii	E	2	2			5	C	L
TOTAL sem 4:					28	15	5	8	0	30		
TOTAL AN II:					56	29	13	14	0	60		

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Denumire RO **An 3/Sem 5** Ver C S L P ECTS Tip Cat

38	1	UPB.12.T.05.O.001EM	Analiza cu element finit	Finite Element Analysis	E	2		2		4	T	O
39	2	UPB.12.T.05.O.002EM	Termodinamica tehnica	Engineering Thermodynamics	E	2	1	1		5	T	O
40	3	UPB.12.T.05.O.003EM	Mecanica fluidelor	Fluid Mechanics	E	2	1			4	T	O
41	4	UPB.12.T.05.O.004EM	Organe de masini si mecanisme II	Machine Elements & Mechanisms II	E	2		1	2	5	T	O
42	5	UPB.12.T.05.O.005EM	Procedee de fabricatie II	Manufacturing Processes II	C	2		1		3	T	O
43	6	UPB.12.S.05.O.006EM	Proiectare pentru reciclare	Design for recycling	V	2			2	3	S	O
44	7	UPB.12.C.05.O.007EM	Comportarea mecanica a materialelor	Mechanical Behaviour of Materials	E	2	1			4	T	O
45	8	UPB.12.C.05.O.008EM	Moneda si sistem bancar	Money & Banking	C	1	1			2	C	O

TOTAL sem 5: 28 15 4 5 4 30

Denumire RO **An 3/Sem 6** Ver C S L P ECTS Tip Cat

46	1	UPB.12.S.06.O.001EM	Transfer de caldura si masa	Heat & Mass Transfer	E	3	1	1		4	S	O
47	2	UPB.12.S.06.O.002EM	Dinamica masinilor	Dynamics of Machinery	E	2		2		3	S	O
48	3	UPB.12.T.06.O.003EM	Transmisii mecanice	Mechanical Transmissions	E	3		1		3	T	O
49	4	UPB.12.S.06.O.004EM	Calculul structurilor mecanice	Computational Structural Mechanics	E	2	1	1		3	S	O
50	5	UPB.12.T.06.O.005EM	Proiect de Transmisie mecanica	Mechanical Transmissions Project	V				2	2	T	O
51	6	UPB.12.T.06.O.006EM	Practica industriala	Practical Workshop	C					4	T	O
52	7	UPB.12.S.06.O.007EM	Practica industriala	Practical Workshop						4	S	O
53	8	UPB.12.C.06.O.008EM	Administrarea afacerilor	Business Administration	C	1	1			2	C	O

DISCIPLINE OPTIONALE

54	9	UPB.12.S.06.A.009EM	Masurari mecanice	Mechanical Measurements	E	2		1		2	S	A
		UPB.12.S.06.A.010EM	Sisteme de achizitie și interfete	Instrumentation and measurement	E	2		1		2		
55	10	UPB.12.S.06.A.011EM	Tehnici de analiza si control aplicate in inginerie	Engineering analysis and control technics	V	2		2		3	T	A
		UPB.12.S.06.A.012EM	Aplicatii ale mecanicii fluidelor	Applied Fluid Dynamics (Pumps)	V	2		2		3		

TOTAL sem 6: 28 15 3 8 2 30

TOTAL AN III: 56 30 7 13 6 60

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Denumire RO		An 4/Sem 7	Ver	C	S	L	P	ECTS	Tip	Cat		
56	1	UPB.12.S.07.O.001EM	Instrumente software in ingineria mecanica II	Software Tools for Mechanical Engineering II (thermal design)	C	2		2		4	S	O
57	2	UPB.12.T.07.O.002EM	Tribologie	Tribology	E	2		2		5	T	O
58	3	UPB.12.S.07.O.003EM	Dezvoltarea de produse inovatoare	Design of Innovative Products	V	1			2	3	S	O
59	4	UPB.12.S.07.O.004EM	Aplicatiile nanotehnologiei in ingineria mecanica	Nanotechnology applications in mechanical engineering	E	1			2	3	S	O
60	5	UPB.12.S.07.O.005EM	Masini termice I (Motoare cu ardere interna)	Heat Engines I (Internal Combustion Engines)	E	2		1	2	6	S	O
61	6	UPB.12.T.07.O.006EM	Bazele managementului	Fundamentals of management	C	1	1			2	T	O
DISCIPLINE OPTIONALE												
62	7	UPB.12.T.07.A.007EM	Electronica	Electronics	E	2		1		4	T	A
		UPB.12.T.07.A.008EM	Teoria controlului	Control Theory	E	2		1		4		
63	8	UPB.12.T.07.A.009EM	Procedee de fabricatie avansate si asigurarea calitatii	Advanced Manufacturing Processes and Quality Assurance	E	2		1		3	S	A
		UPB.12.T.07.A.010EM	Optimizari in inginerie mecanica	Optimisations in Mechanical Engine	E	2		1		3		
TOTAL sem 7:					27	13	1	7	6	30		

Denumire RO		An 4/Sem8	Ver	C	S	L	P	ECTS	Tip	Cat		
64	1	UPB.12.S.08.O.001EM	Masini termice II (Turbine & Gen. de abur)	Heat Engines II (Turbines & Steam Generators)	C	2		2		4	S	O
65	2	UPB.12.S.08.O.002EM	Instalatii frigorifice si de conditionare a aerului	Refrigeration and Air Conditioning	C	2	1	2		5	S	O
66	3	UPB.12.S.08.O.003EM	Ingineria mediului	Environmental Engineering	V	2	1			3	S	O
67	4	UPB.12.S.08.O.004EM	Elaborarea proiectului de diploma	Diploma Project	V			8		4	S	O
68	5	UPB.12.S.08.O.005EM	Practica pentru elaborarea proiectului de diploma (60 ore)	Diploma Project Internship	V					6	S	O
69	6	UPB.12.S.08.O.006EM	Compresoare si ventilatoare	Compressors and Fans	V	2		1		3	S	O
70	7	UPB.12.T.08.O.007EM	Actionari hidraulice si pneumatice	Fluid Power Systems	V	2		1		3	T	O
DISCIPLINE OPTIONALE												
71	8	UPB.12.T.08.A.008EM	Management industrial	Industrial Management	V	1	1			2	T	A
		UPB.12.T.08.A.009EM	Managementul proiectelor industriale	Industrial Project Management	C	1		1		2		
TOTAL sem 8:					28	11	3	5	9	30		
TOTAL AN IV:					55	24	4	12	15	60		