

PLAN DE INVATAMANT 2019-2023

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.003EM	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.0065E	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
			Matematici discrete	Discrete Mathematics	C	2	2		3		
9	9	UPB.12.C.01.A.009EM	Educatie fizica I	Physical Education I	V			2	2	C	A
			Limba straina b. (Franceza/Germana)	Foreign Language b (French/German)	V		2		2		
DISCIPLINE FACULTATIVE											
10	10		Limba engleză pentru studii academice ingineresti I	English for Engineering Academic Study I	V	1	1		2	C	L
11	11		Limba si cultura romana (pentru straini) I	Romanian Language (for foreign students) I	V		2		2	C	L
12	12		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
			Etica si Integritate Academica	Ethics and Academic Integrity	V	1	1		2		
18	9	UPB.12.C.02.A.009EM	Educatie fizica II	Physical Education II	V			2	2	C	A
			Limba straina b. (Franceza/Germana)	Foreign Language b (French/German)	V		2		2		
DISCIPLINE FACULTATIVE											
19			Limba engleză pentru studii academice	English for Engineering Academic Study II	V	1	1		2	C	L
20			Limba si cultura romana (pentru straini) II	Romanian Language (for foreign students) II	V		2		2	C	L
21			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	

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											
28			Limba si cultura romana (pentru straini) III	Romanian Language (for foreign students) III	V		2		2	C	L
29			Pedagogie 2	Pedagogie 2	E	2	2		5	C	L
				TOTAL sem 3:	28	14	9	5	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 tehnică	Technical writting	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
			Masurari electrice si transductoare	Electrical measurements & Transdu	E	2	1		3		
DISCIPLINE FACULTATIVE											
38			Limba si cultura romana (pentru straini) IV	Romanian Language (for foreign students) IV	V		2		2	C	L
39			Didactica specialitatii	Didactica specialitatii	E	2	2		5	C	L
				TOTAL sem 4:	28	15	8	5	0	30	
				TOTAL AN II:	56	29	17	10	0	60	

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 Mechanic	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	Bussiness 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
			Circuite si componente electronice	Electronic Devices & Circuits	E	2		1		2		
55	10	UPB.12.S.06.A.010EM	Tehnici de analiza si control aplicate in inginerie	Engineering analysis and control technics	V	2		2		3	T	A
			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		

		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 inovante	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	
			Teoria controlului	Control Theory	E	2		1	4			
63	8	UPB.12.T.07.A.008EM	Procedee de fabricatie avansate si asigurarea calitatii	Advanced Manufacturing Processes and Quality Assurance	E	2		1	3	T	A	
			Prelucrarea imaginilor	Image Processing	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					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	
			Robotica si Realitate virtuala	Robotics & Virtual Reality	C	1		1	2			
TOTAL sem 8:					28	11	3	5	9	30		
TOTAL AN IV:					55	24	4	12	15	60		