

UNIVERSITATEA POLITEHNICA BUCURESTI  
FACULTATEA DE INGINERIE IN LIMBI STRAINE

## PLAN DE INVATAMANT 2016-2020, 2017-2021, 2018-2022

- Studii universitare de licenta -

Domeniul: **INGINERIE MECANICA**

Programul: **INGINERIE MECANICA IN LIMBA ENGLEZA**

An 1/Sem 1			Denumire Disciplina	Denumire Disciplina in limba de predare	Forma verificare	Nr ore/sapt				ECTS	Tip	Cat
						C	S	L	P			
1	1	UPB.12.1.001.I.EM	Analiza matematica I	Calculus I	E	3	2			6	F	O
2	2	UPB.12.1.002.I.EM	Algebra liniara	Linear Algebra	E	2	2			4	F	O
3	3	UPB.12.1.006.I.EM	Grafica ingineriasca I	Engineering Graphics I	C	1		2		4	F	O
4	4	UPB.12.1.003.I.EM	Chimie generala	Chemistry	E	2	1			3	F	O
5	5	UPB.12.1.004.I.EM	Stiinta materialelor I	Materials Science I	E	2		1		4	T	O
6	6	UPB.12.1.005.I.EM	Introducere in informatica	Introduction to Information Technology	C	1		2		3	F	A
7	7	UPB.12.1.007.I.EM	Comunicare profesionala (in lb. engleza)	Professional Communication	C		2			2	S	O
8	8	UPB.12.1.008.O.EM	Cultura si Civilizatie Europeana I	European Culture & Civilization I	C	1	1			2	C	O
9	9	UPB.12.1.009.I.EM	Educatie fizica I	Physical Education I	V			2		2	C	A
9	9	UPB.12.1.011.O.EM	Limba straina b. (Franceza/Germana)	Foreign Language b (French/German)	V		2			2	C	A
6	6	UPB.12.1.010.I.EM	Matematici discrete	Discrete Mathematics	C	2	1			3	F	A
			Limba engleză pentru studii academice ingineresti I	English for Engineering Academic Study I	V	1	1			2	C	L
			Limba si cultura romana (pentru straini) I	Romanian Language (for foreign students) I	V		2			2	C	L
			Psihologie educatiionala	Psihologie educatiionala	E	2	2			5	C	L
<b>TOTAL sem 1:</b>						<b>27</b>	<b>12</b>	<b>8</b>	<b>7</b>	<b>0</b>	<b>30</b>	

An 1/Sem 2			Denumire Disciplina	Denumire Disciplina in limba de predare	Forma verificare	Nr ore/sapt				ECTS	Tip	Cat
						C	S	L	P			
10	1	UPB.12.2.001.I.EM	Analiza matematica II	Calculus II	E	3	2			6	F	O
11	2	UPB.12.2.002.I.EM	Fizica I	Physics I	E	2	1	1		5	F	O
12	3	UPB.12.2.003.I.EM	Mecanica I	Mechanics I	E	2	1			3	T	O
13	4	UPB.12.2.004.I.EM	Grafica ingineriasca II	Engineering Graphics II	C	2		2		4	F	O
14	5	UPB.12.2.005.I.EM	Limbaje de programare	Programming Languages	E	1		2		3	F	O
15	6	UPB.12.2.006.I.EM	Stiinta materialelor II	Materials Science II	E	2		1		3	T	O
16	7	UPB.12.2.007.I.EM	Comunicare în echipă I	Collaborative Work I	C		2			2	S	O
17	8	UPB.12.2.008.O.EM	Cultura si Civilizatie Europeana II	European Culture & Civilization II	C	1	1			2	C	O
18	9	UPB.12.2.009.I.EM	Educatie fizica II	Physical Education II	V			2		2	C	A
18	9	UPB.12.2.010.O.EM	Limba straina b. (Franceza/Germana)	Foreign Language b (French/German)	V		2			2	C	A
			Limba engleză pentru studii academice ingineresti II	English for Engineering Academic Study II	V	1	1			2	C	L
			Limba si cultura romana (pentru straini) II	Romanian Language (for foreign students) II	V		2			2	C	L
			Pedagogie 1	Pedagogie 1	E	2	2			5	C	L
<b>TOTAL sem 2:</b>						<b>28</b>	<b>13</b>	<b>7</b>	<b>8</b>	<b>0</b>	<b>30</b>	
<b>TOTAL AN I:</b>						<b>55</b>	<b>25</b>	<b>15</b>	<b>15</b>	<b>0</b>	<b>60</b>	

Rector  
Mihnea COSTOIU

Decan,  
Adrian Volceanov

Director DILS,  
George Dragoi

RECTOR,  
Mihnea COSTOIU

DECAN,  
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Director departament,  
George DRAGOI

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An 2/Sem 3			Denumire Disciplina	Denumire Disciplina in limba de predare	Forma verificare	Nr ore/sapt				ECTS	Tip	Cat
						C	S	L	P			
19	1	UPB.12.3.001.I.EM	Matematici speciale I	Mathematics for Engineers I	E	2	2			5	F	O
20	2	UPB.12.3.002.I.EM	Statistica si Probabilitati	Probabilities & Statistics	C	1	1			2	F	O
21	3	UPB.12.3.003.I.EM	Fizica II	Physics II	E	2		1		4	F	O
22	4	UPB.12.3.005.I.EM	Rezistenta materialelor I	Strenght of Materials I	E	2	2			4	T	O
23	5	UPB.12.3.004.I.EM	Introducere in ingineria mecanica	Introduction to Mechanical Enginee	C	1	1	2		5	S	O
24	6	UPB.12.3.007.I.EM	Electrotehnica	Electrical engineering I	C	2	1			3	T	O
25	7	UPB.12.3.006.I.EM	Mecanica II	Mechanics II	E	2	1			3	T	O
26	8	UPB.12.3.010.I.EM	Comunicare în echipă II	Collaborative Work II	C		2			2	S	O
27	9	UPB.12.3.009.I.EM	Microeconomie	Microeconomics	C	1	1			2	C	O
			Limba si cultura romana (pentru straini) III	Romanian Language (for foreign students) III	V		2			2	C	L
			Pedagogie 2	Pedagogie 2	E	2	2			5	C	L
<b>TOTAL sem 3:</b>						<b>27</b>	<b>13</b>	<b>11</b>	<b>3</b>	<b>0</b>	<b>30</b>	

An 2/Sem 4			Denumire Disciplina	Denumire Disciplina in limba de predare	Forma verificare	Nr ore/sapt				ECTS	Tip	Cat
						C	S	L	P			
28	1	UPB.12.4.001.I.EM	Matematici speciale II	Mathematics for Engineers II	E	2	2			5	F	O
29	2	UPB.12.4.002.I.EM	Mecanica III	Mechanics III	E	1	1			2	T	O
30	3	UPB.12.4.003.I.EM	Rezistenta materialelor II	Strenght of Materials II	E	2	1			3	T	O
31	4	UPB.12.4.005.I.EM	Procedee de fabricatie I	Manufacturing Processes I	C	2		1		3	T	O
32	5	UPB.12.4.006.O.EM	Masini si aparate electrice	Electrical engineering II (Electrical machines)	E	2	1			3	T	A
33	6	UPB.12.4.007.I.EM	Organe de masini si mecanisme I	Machine Elements & Mechanisms I	E	2		1		4	T	O
34	7	UPB.12.4.004.I.EM	Metode numerice	Numerical Methods	C	2	2			3	F	O
35	8		Instrumente software in ingineria mecanica I (design corp solid)	Software Tools for Mechanical Engineering I (solid body design)	C	1		2		3	S	O
36	9	UPB.12.4.009.I.EM	Comunicare tehnică	Technical writing	C		2			2	S	O
37	10	UPB.12.4.008.I.EM	Macroeconomie	Macroeconomics	C	1	1			2	C	O
32	5	UPB.12.4.010.O.EM	Masurari electrice si traductoare	Electrical measurements & Transdu	E	2	1			3	T	A
			Limba si cultura romana (pentru straini) IV	Romanian Language (for foreign students) IV	V		2			2	C	L
			Didactica specialitatii	Didactica specialitatii	E	2	2			5	C	L
<b>TOTAL sem 4:</b>						<b>29</b>	<b>15</b>	<b>10</b>	<b>4</b>	<b>0</b>	<b>30</b>	
<b>TOTAL AN II:</b>						<b>56</b>	<b>28</b>	<b>21</b>	<b>7</b>	<b>0</b>	<b>60</b>	

Rector  
Mihnea COSTOIUDecan,  
Adrian VolceanovDirector DILS,  
George DragoiRECTOR,  
Mihnea COSTOIUDECAN,  
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An 3/Sem 5			Denumire Disciplina	Denumire Disciplina in limba de predare	Forma verificare	Nr ore/sapt				ECTS	Tip	Cat
						C	S	L	P			
38	1	UPB.12.5.001.I.EM	Analiza cu element finit	Finite Element Analysis	E	2		2		4	T	O
39	2	UPB.12.5.002.I.EM	Termodinamica tehnica	Engineering Thermodynamics	E	2	1	1		5	T	O
40	3	UPB.12.5.003.I.EM	Mecanica fluidelor	Fluid Mechanics	E	2	1			4	T	O
41	4	UPB.12.5.004.I.EM	Proiectare pentru reciclare	Design for recycling	V	2			2	4	S	O
42	5	UPB.12.5.005.O.EM	Comportarea mecanica a material	Mechanical Behaviour of Materials	E	2	1			3	T	A
43	6	UPB.12.5.006.I.EM	Organe de masini si mekansme II	Machine Elements & Mechanisms I	E	2		1	2	5	T	O
44	7	UPB.12.5.007.I.EM	Procedee de fabricatie II	Manufacturing Processes II	C	2		1		3	T	O
45	8	UPB.12.5.008.I.EM	Moneda si sistem bancar	Money & Banking	C	1	1			2	C	O
42	5	UPB.12.5.009.O.EM	Circuite si componente electronice	Electronic Devices & Circuits I	E	2		1		3	T	A
<b>TOTAL sem 5:</b>						<b>28</b>	<b>15</b>	<b>4</b>	<b>5</b>	<b>4</b>	<b>30</b>	

An 3/Sem 6			Denumire Disciplina	Denumire Disciplina in limba de predare	Forma verificare	Nr ore/sapt				ECTS	Tip	Cat
						C	S	L	P			
46	1	UPB.12.6.001.I.EM	Transfer de caldura si masa	Heat & Mass Transfer	E	3	1	1		4	S	O
47	2		Dinamica masinilor	Dynamics of Machinery	E	2		2		3	S	O
48	3	UPB.12.6.003.I.EM	Transmisii mecanice	Mechanical Transmissions	E	3		1		3	T	O
49	4	UPB.12.6.004.O.EM	Masurari mecanice	Mechanical Measurements	E	2		1		3	S	A
50	5	UPB.12.6.005.I.EM	Tehnici de analiza si control aplicate in inginerie	Engineering analysis and control technics	V	2			2	3	T	A
51	6	UPB.12.6.006.I.EM	Modelare numerica in mecanica sti	Computational Structural Mechanics	C	2	1	1		4	S	O
52	7	UPB.12.6.007.I.EM	Proiect de Transmisie mecanica	Mechanical Transmissions Project	V				2	2	T	O
53	8	UPB.12.6.008.I.EM	Practica industriala	Practical Workshop	C					6	T	O
54	9	UPB.12.6.009.I.EM	Administrarea afacerilor	Bussiness Administration	C	1	1			2	C	O
49	4	UPB.12.6.010.O.EM	Circuite si componente electronice	Electronic Devices & Circuits II	E	2		1		3	S	A
50	5		Aplicatii ale mecanicii fluidelor	Applied Fluid Dynamics (Pumps,...)	E	2		2		3	T	A
<b>TOTAL sem 6:</b>						<b>28</b>	<b>15</b>	<b>3</b>	<b>6</b>	<b>4</b>	<b>30</b>	
<b>TOTAL AN III:</b>						<b>56</b>	<b>30</b>	<b>7</b>	<b>11</b>	<b>8</b>	<b>60</b>	

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An 4/Sem 7			Denumire Disciplina	Denumire Disciplina in limba de predare	Forma verificare	Nr ore/sapt				ECTS	Tip	Cat
						C	S	L	P			
55	1	UPB.12.7.001.O.EM	Instrumente software in ingineria mecanica II	Software Tools for Mechanical Engineering II (thermal design)	C	2		2		4	S	O
56	2	UPB.12.7.003.I.EM	Tribologie	Tribology	E	2		2		5	T	O
57	3	UPB.12.7.004.I.EM	Procedee de fabricatie avansate si asigurarea calitatii	Advanced Manufacturing Processes and Quality Assurance	C	2		1		3	T	A
58	4	UPB.12.7.005.I.EM	Dezvoltarea de produse inovante	Design of Innovative Products	V	1			2	3	S	O
59	5	UPB.12.7.007.I.EM	Electronica	Electronics	E	2		1		4	T	A
60	6	UPB.12.7.002.I.EM	Masini termice I (Motoare cu ardere)	Heat Engines I (Internal Combustion Engines)	E	2	1	1	1	6	S	O
61	7	UPB.12.7.008.I.EM	Bazele managementului	Fundamentals of management	C	1	1			2	T	O
58	4		Aplicatiile nanotehnologiei in ingineria mecanica	Nanotechnology applications in mechanical engineering	V	1			2	3	S	O
57	3	UPB.12.7.009.O.EM	Prelucrarea imaginilor	Image Processing	C	2		1		3	T	A
			Teoria controlului	Control Theory	C	2		1		4	T	A
<b>TOTAL sem 7:</b>						<b>24</b>	<b>12</b>	<b>2</b>	<b>7</b>	<b>3</b>	<b>30</b>	

An 4/Sem 8			Denumire Disciplina	Denumire Disciplina in limba de predare	Forma verificare	Nr ore/sapt				ECTS	Tip	Cat
						C	S	L	P			
62	1	UPB.12.8.004.I.EM	Masini termice II (Turbine & Gen. de abur)	Heat Engines II (Turbines & Steam Generators)	C	2		2		4	S	O
63	2	UPB.12.8.001.I.EM	Instalatii frigorifice si de conditionare a aerului	Refrigeration and Air Conditioning	C	2	1	2		5	S	O
64	3	UPB.12.8.003.I.EM	Ingineria mediului	Environmental Engineering	V	2	1			3	S	O
65	4	UPB.12.8.002.I.EM	Proiect de licenta	Diploma Project	V				8	10	S	O
66	5	UPB.12.8.005.O.EM	Management industrial	Industrial Management	V	1	1			2	T	A
67	6		Compresoare si ventilatoare	Compressors and Fans	V	2			1	3	S	O
68	7		Actionari hidraulice si pneumatice	Fluid Power Systems	V	2		1		3	T	O
67	5	UPB.12.8.006.O.EM	Robotica si Realitate virtuala	Robotics & Virtual Reality	C	2		1		3	T	A
<b>TOTAL sem 8:</b>						<b>28</b>	<b>11</b>	<b>3</b>	<b>5</b>	<b>9</b>	<b>30</b>	
<b>TOTAL AN IV:</b>						<b>52</b>	<b>23</b>	<b>5</b>	<b>12</b>	<b>12</b>	<b>60</b>	

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