

<b>PLAN DE INVATAMANT</b>	<b>CURRICULUM</b>
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<b>Anul:</b>	<b>1</b>		<b>Year</b>
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Semestrul:	<b>1 (1)</b>		Semester
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Codul materiei Code	MATERIA Subject	Verif. Verif.	Curs Course	Sem Tutorial	Lab Lab	Proiect Project	Credite Credits
<b>Discipline Obligatorii</b> <span style="float: right;"><b>Compulsory subjects</b></span>							
Discipline Fundamentale				Basic subjects			
UPB.12.F.1.O.0.EM	Calculus I	E	3	2			6
UPB.12.F.1.O.002.EM	Linear Algebra	E	2	2			4
UPB.12.F.1.O.024.EM	Engineering graphics M1	C	1		2		4
UPB.12.F.1.O.031.EM	Chemistry	E	2	1			3
Discipline Tehnice generale				Basic engineering courses			
UPB.12.T.1.O.001.EM	Materials Science I	E	2		1		4
UPB.12.T.1.O.021.EM	Introduction to Information Technology	C	1		2		3
Discipline si stiinte Umaniste				Humanities and social sciences			
UPB.12.U.1.O.001.EM	Professional communication	C		2			2
UPB.12.U.1.O.002.EM	European Culture and Civilisation I	C	1	1			2
		<b>25</b>	<b>12</b>	<b>8</b>	<b>5</b>		<b>28</b>

<b>Discipline la Alegere</b> <span style="float: right;"><b>Optional subjects</b></span>							
Discipline si stiinte Umaniste				Humanities and social sciences			
UPB.12.U.1.A.001.EM	Foreign language b (Spanish Language 1)	V		2			2
UPB.12.U.1.A.002.EM	Physical Education I	V		2			2

<b>Discipline la alegere Libera</b> <span style="float: right;"><b>Free choice subjects</b></span>							
Discipline complementare				Complementary Topics			
UPB.12.C.1.L.005.EM	English for Engineering Academic Study 1	V	1	1			2
Discipline si stiinte Umaniste				Humanities and social sciences			
UPB.12.U.1.L.003.EM	Limba si cultura Romana (pentru straini)	V		2			2

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<b>Anul:</b>	<b>1</b>		<b>Year</b>
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Semestrul:	<b>2 (2)</b>		Semester
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Codul materiei Code	MATERIA Subject	Verif. Verif.	Curs Course	Sem Tutorial	Lab Lab	Proiect Project	Credite Credits
<b>Discipline Obligatorii</b> <span style="float: right;"><b>Compulsory subjects</b></span>							
Discipline Fundamentale				Basic subjects			
UPB.12.F.2.O.001.EM	Calculus II	E	3	2			6
UPB.12.F.2.O.011.EM	Physics I	E	2	1	1		5
UPB.12.F.2.O.012.EM	Mechanics I	E	2	1			3
UPB.12.F.2.O.023.EM	Engineering Graphics II	C	2		2		4
UPB.12.F.2.O.042.EM	Programming languages	E	1		2		3
UPB.12.F.2.O.043.EM	Collaborative Work 1	C		2			2
Discipline Tehnice generale				Basic engineering courses			
UPB.12.T.2.O.001.EM	Materials Science II	E	2		1		3
Discipline si stiinte Umaniste				Humanities and social sciences			
UPB.12.U.2.O.002.EM	European Culture and Civilisation II	C	1	1			2
		<b>26</b>	<b>13</b>	<b>7</b>	<b>6</b>		<b>28</b>

<b>Discipline la Alegere</b> <span style="float: right;"><b>Optional subjects</b></span>							
Discipline si stiinte Umaniste				Humanities and social sciences			
UPB.12.U.2.A.001.EM	Foreign language b (Spanish Language 2)	V		2			2
UPB.12.U.2.A.002.EM	Physical Education	V		2			2

<b>Discipline la alegere Libera</b> <span style="float: right;"><b>Free choice subjects</b></span>							
Discipline complementare				Complementary Topics			
UPB.12.C.2.L.005.EM	English for Engineering Academic Study 2	V	1	1			2
Discipline si stiinte Umaniste				Humanities and social sciences			
UPB.12.U.2.L.003.EM	Limba si cultura romana (pentru straini)	V		2			2
UPB.12.U.2.L.004.EM	Pedagogie 1	V	2	2			5

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<b>Anul:</b>			<b>2</b>			<b>Year</b>	
<b>Semestrul:</b>			<b>3 (1)</b>			<b>Semester</b>	
Codul materiei Code	MATERIA Subject	Verif. Verif.	Curs Course	Sem Tutorial	Lab Lab	Proiect Project	Credite Credits
<b>Discipline Obligatorii</b>							<b>Compulsory subjects</b>
Discipline Fundamentale							Basic subjects
UPB.12.F.3.O.001.EM	Mathematics for Engineers I	E	2	2			5
UPB.12.F.3.O.002.EM	Probabilities & Statistics	C	1	1			2
UPB.12.F.3.O.011.EM	Physics II	E	2		1		4
Discipline Tehnice generale							Basic engineering courses
UPB.12.T.3.O.001.EM	Strength of Materials I	E	2	2			4
UPB.12.T.3.O.001.EM	Introduction to Mechanical Engineering	C	1	1	2		5
UPB.12.T.3.O.002.EM	Mechanics II	E	2	1			3
UPB.12.T.3.O.002.EM	Electrical Engineering I	C	2	1			3
Discipline de Specialitate							Specialities
UPB.12.S.3.O.001.EM	Colaborative work II	C		2			2
Discipline Economice							Economics
UPB.12.E.3.O.001.EM	Microeconomics	C	1	1			2
			<b>27</b>	<b>13</b>	<b>11</b>	<b>3</b>	<b>30</b>
<b>Discipline la alegere Libera</b>							<b>Free choice subjects</b>
Discipline si stiinte Umaniste							Humanities and social sciences
UPB.12.U.3.L.002.EM	Limba si cultura romana (pentru straini)	V		2			2

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<b>Anul:</b>	<b>2</b>	<b>Year</b>
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<b>Semestrul:</b>	<b>4 (2)</b>	<b>Semester</b>
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Codul materiei Code	MATERIA Subject	Verif. Verif.	Curs Course	Sem Tutorial	Lab Lab	Proiect Project	Credite Credits
<b>Discipline Obligatorii</b>							<b>Compulsory subjects</b>
Discipline Fundamentale							Basic subjects
UPB.12.F.4.O.001.EM	Mathematics for Engineers II	E	2	2			5
Discipline Tehnice generale							Basic engineering courses
UPB.12.T.4.O.001.EM	Mechanics III	E	1	1			2
UPB.12.T.4.O.002.EM	Strength of Materials II	E	2	1			3
UPB.12.T.4.O.003.EM	Manufacturing Processes I	C	2		1		3
UPB.12.T.4.O.004.EM	Electrical Engineering II (El. Machines)	E	2	1			3
UPB.12.T.4.O.005.EM	Machine Elements & Mechanisms I	E	1		1		4
UPB.12.T.4.O.023.EM	Numerical Methods	C	2		2		3
Discipline de Specialitate							Specialities
UPB.12.S.4.O.001.EM	Technical writing	C		2			2
UPB.12.S.4.O.006.EM	Software Tools for Mechanical Engineering I (Solid Body Design)	C	1		2		3
Discipline Economice							Economics
UPB.12.E.4.O.001.EM	Macroeconomics	C	1	1			2
		<b>28</b>	<b>14</b>	<b>8</b>	<b>6</b>		<b>30</b>
<b>Discipline la alegere Libera</b>							<b>Free choice subjects</b>
Discipline si stiinte Umaniste							Humanities and social sciences
UPB.12.U.4.L.002.EM	Limba si cultura romana (pentru straini)	V		2			2

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<b>Anul:</b>	<b>3</b>	<b>Year</b>
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<b>Semestrul:</b>	<b>5 (1)</b>	<b>Semester</b>
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Codul materiei Code	MATERIA Subject	Verif. Verif.	Curs Course	Sem Tutorial	Lab Lab	Proiect Project	Credite Credits
<b>Discipline Obligatorii</b>		<b>Compulsory subjects</b>					
Discipline Tehnice generale		Basic engineering courses					
UPB.12.T.5.O.001.EM	Finite Element Analysis	E	2		2		4
UPB.12.T.5.O.002.EM	Engineering Thermodynamics	E	2	1	1		5
UPB.12.T.5.O.003.EM	Fluid Mechanics	E	2	1			4
UPB.12.T.5.O.004.EM	Control Theory	C	2	1	1		4
UPB.12.T.5.O.005.EM	Mechanical Behaviour of Materials	E	2	1			3
UPB.12.T.5.O.006.EM	Machine Elements & Mechanisms II	E	2		1	2	5
UPB.12.T.5.O.007.EM	Manufacturing Processes II	C	2		1		3
Discipline manageriale		Management					
UPB.12.M.5.O.041.EM	Money and Banking	C	1	1			2
		<b>28</b>	<b>15</b>	<b>5</b>	<b>6</b>	<b>2</b>	<b>30</b>

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<b>Anul:</b>	<b>3</b>	<b>Year</b>
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<b>Semestrul:</b>	<b>6 (2)</b>	<b>Semester</b>
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Codul materiei Code	MATERIA Subject	Verif. Verif.	Curs Course	Sem Tutorial	Lab Lab	Proiect Project	Credite Credits
<b>Discipline Obligatorii</b> <span style="float: right;"><b>Compulsory subjects</b></span>							
Discipline Tehnice generale				Basic engineering courses			
UPB.12.T.6.O.001.EM	Heat & Mass transfer	<b>E</b>	3	1	1		4
UPB.12.T.6.O.002.EM	Dynamics of Machinery	<b>E</b>	2		2		3
UPB.12.T.6.O.003.EM	Mechanical Transmissions	<b>E</b>	3		1		3
UPB.12.T.6.O.004.EM	Mechanical Measurements	<b>E</b>	2		1		3
UPB.12.T.6.O.006.EM	Computational Structural Mechanics	<b>C</b>	2	1	1		4
UPB.12.T.6.O.007.EM	Machine Design Project	<b>V</b>				2	2
UPB.12.T.6.O.008.EM	Practical Workshop	<b>C</b>					6
Discipline manageriale				Management			
UPB.12.M.6.O.041.EM	Business Administration	<b>C</b>	1	1			2
		<b>24</b>	<b>13</b>	<b>3</b>	<b>6</b>	<b>2</b>	<b>27</b>
<b>Discipline la Alegere</b> <span style="float: right;"><b>Optional subjects</b></span>							
Discipline Tehnice generale				Basic engineering courses			
UPB.12.T.6.A.005.EM	Applied Fluid Dynamics (Pumps...)	<b>E</b>	2		2		3
UPB.12.T.6.A.043.EM	Engineering analysis and control technology	<b>E</b>	2			2	3

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<b>Anul:</b>	<b>4</b>		<b>Year</b>
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Semestrul:	<b>7 (1)</b>		<b>Semester</b>
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Codul materiei Code	MATERIA Subject	Verif. Verif.	Curs Course	Sem Tutorial	Lab Lab	Proiect Project	Credite Credits
<b>Discipline Obligatorii</b> <span style="float: right;"><b>Compulsory subjects</b></span>							
Discipline Tehnice generale				Basic engineering courses			
UPB.12.T.7.O.001.EM	Software tools for Mechanical Engineering II (Thermal Design)	<b>C</b>	2		2		4
UPB.12.T.7.O.003.EM	Tribology	<b>E</b>	2		2		4
UPB.12.T.7.O.004.EM	Advanced Manufacturing Processes and Quality Assurance	<b>C</b>	2		1		3
UPB.12.T.7.O.006.EM	Fluid Power Systems	<b>E</b>	2		1		4
UPB.12.T.7.O.007.EM	Electronics	<b>E</b>	2		1		4
Discipline de Specialitate				Specialities			
UPB.12.S.7.O.002.EM	Heat Engines I (ICE)	<b>E</b>	2	1	1	1	6
Discipline manageriale				Management			
UPB.12.M.7.O.041.EM	Foundamentals of Management	<b>C</b>	1	1			2
		<b>24</b>	<b>13</b>	<b>2</b>	<b>8</b>	<b>1</b>	<b>27</b>

<b>Discipline la Alegere</b> <span style="float: right;"><b>Optional subjects</b></span>							
Discipline Tehnice generale				Basic engineering courses			
UPB.12.T.7.A.005.EM	Design of Innovative Products	<b>V</b>	1			2	3
Discipline de Specialitate				Specialities			
UPB.12.S.7.A.042.EM	Nanotechnology applications in mechanical engineering	<b>E</b>	1			2	3

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<b>Anul:</b>	<b>4</b>		<b>Year</b>
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Semestrul:	<b>8 (2)</b>		Semester
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Codul materiei Code	MATERIA Subject	Verif. Verif.	Curs Course	Sem Tutorial	Lab Lab	Proiect Project	Credite Credits
<b>Discipline Obligatorii</b>							<b>Compulsory subjects</b>
Discipline Tehnice generale						Basic engineering courses	
UPB.12.T.8.O.002.EM	Heat Engines II (Boilers, Turbines)	<b>C</b>	2		2		4
Discipline de Specialitate						Specialities	
UPB.12.S.8.O.001.EM	Refrigeration and Air Conditioning	<b>C</b>	2	1	2		5
UPB.12.S.8.O.003.EM	Environmental Engineering	<b>V</b>	2	1			3
UPB.12.S.8.O.004.EM	Diploma Project	<b>V</b>				8	10
UPB.12.S.8.O.007.EM	Compressors and Fans	<b>V</b>	2			1	3
UPB.12.S.8.O.009.EM	Design for Recycling	<b>V</b>	2			1	3
Discipline manageriale						Management	
UPB.12.M.8.O.041.EM	Industrial Management	<b>V</b>	1	1			2
		<b>28</b>	<b>11</b>	<b>3</b>	<b>4</b>	<b>10</b>	<b>30</b>

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