

<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				Fundamental subjects			
UPB.12.F.1.O.0.EI	Calculus I	E	3	2			6
UPB.12.F.1.O.002.EI	Linear Algebra	E	2	2			4
UPB.12.F.1.O.022.EI	Programming Languages	E	2		2		4
UPB.12.F.1.O.023.EI	Engineering Graphics I	C	1		1		3
UPB.12.F.1.O.031.EI	Chemistry	E	2	1			3
Discipline complementare				Complementary subjects			
UPB.12.C.1.O.001.EI	Professional communication	C		2			2
UPB.12.C.1.O.002.EI	European Culture and Civilisation I	C	1	1			2
Discipline domeniu				Domain subjects			
UPB.12.D.1.O.003.EI	Discrete Mathematics	E	2	1			3
UPB.12.D.1.O.021.EI	Introduction to Information Technology	C	1		1		3
		<b>27</b>	<b>14</b>	<b>9</b>	<b>4</b>		<b>30</b>

<b>Discipline la Alegere</b> <span style="float: right;"><b>Optional subjects</b></span>							
Discipline complementare				Complementary subjects			
UPB.12.C.1.A.001.EI	Foreign language b (Spanish Language 1)	V		2			2
UPB.12.C.1.A.002.EI	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 subjects			
UPB.12.C.1.L.003.EI	Limba si cultura Romana (pentru straini)	V		2			2
UPB.12.C.1.L.005.EI	English for Engineering Academic Study 1	V	1	1			2

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<b>Anul:</b>	<b>1</b>		<b>Year</b>
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<b>Semestrul:</b>	<b>2 (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 Fundamentale <span style="float: right;">Fundamental subjects</span>							
UPB.12.F.2.O.001.EI	Calculus II	<b>E</b>	3	2			6
UPB.12.F.2.O.011.EI	Physics I	<b>E</b>	2	1	1		5
UPB.12.F.2.O.012.EI	Theoretical Mechanics	<b>C</b>	1	1			2
Discipline specialitate <span style="float: right;">Specialty subjects</span>							
UPB.12.S.2.O.001.EI	Collaborative Work 1	<b>C</b>		2			2
UPB.12.S.2.O.024.EI	Introduction to Web Programming	<b>E</b>	2		2		4
Discipline complementare <span style="float: right;">Complementary subjects</span>							
UPB.12.C.2.O.002.EI	European Culture and Civilisation II	<b>C</b>	1	1			2
Discipline domeniu <span style="float: right;">Domain subjects</span>							
UPB.12.D.2.O.022.EI	Computer Architecture	<b>C</b>	2			2	4
UPB.12.D.2.O.023.EI	Data Structures and Algorithms	<b>E</b>	2			2	5
		<b>27</b>	<b>13</b>	<b>7</b>	<b>7</b>		<b>30</b>
<b>Discipline la Alegere</b> <span style="float: right;"><b>Optional subjects</b></span>							
Discipline complementare <span style="float: right;">Complementary subjects</span>							
UPB.12.C.2.A.001.EI	Foreign language b (Spanish Language 2)	<b>V</b>		2			2
UPB.12.C.2.A.002.EI	Physical Education	<b>V</b>		2			2
<b>Discipline la alegere Libera</b> <span style="float: right;"><b>Free choice subjects</b></span>							
Discipline complementare <span style="float: right;">Complementary subjects</span>							
UPB.12.C.2.L.003.EI	Limba si cultura romana (pentru straini)	<b>V</b>		2			2
UPB.12.C.2.L.004.EI	Pedagogie 1	<b>V</b>	2	2			5
UPB.12.C.2.L.005.EI	English for Engineering Academic Study 2	<b>V</b>	1	1			2

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<b>Anul:</b>	<b>2</b>		<b>Year</b>
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Semestrul:	<b>3</b>	<b>(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>							<b>Compulsory subjects</b>
Discipline Fundamentale						Fundamental subjects	
UPB.12.F.3.O.001.EI	Mathematics for Engineers I	<b>E</b>	2	2			5
UPB.12.F.3.O.002.EI	Probabilities & Statistics	<b>C</b>	1	1			2
UPB.12.F.3.O.011.EI	Physics II	<b>E</b>	2		1		4
Discipline specialitate						Specialty subjects	
UPB.12.S.3.O.001.EI	Colaborative work II	<b>C</b>		2			2
Discipline complementare						Complementary subjects	
UPB.12.C.3.O.001.EI	Microeconomics	<b>C</b>	1	1			2
Discipline domeniu						Domain subjects	
UPB.12.D.3.O.012.EI	Electromagnetics	<b>E</b>	3	2			5
UPB.12.D.3.O.013.EI	Foundamentals of Circuit Theory	<b>E</b>	3	2			6
UPB.12.D.3.O.021.EI	Object Oriented Programming	<b>V</b>	2		2		4
		<b>27</b>	<b>14</b>	<b>10</b>	<b>3</b>		<b>30</b>
<b>Discipline la alegere Libera</b>							<b>Free choice subjects</b>
Discipline complementare						Complementary subjects	
UPB.12.C.3.L.002.EI	Limba si cultura romana (pentru straini)	<b>V</b>		2			2

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<b>Anul:</b>	<b>2</b>		<b>Year</b>
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Semestrul:	<b>4 (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 Fundamentale							Fundamental subjects
UPB.12.F.4.O.001.EI	Mathematics for Engineers II	<b>E</b>	2	2			5
UPB.12.F.4.O.023.EI	Numerical Methods	<b>C</b>	2		2		3
Discipline specialitate							Specialty subjects
UPB.12.S.4.O.001.EI	Technical writing	<b>C</b>		2			2
Discipline complementare							Complementary subjects
UPB.12.C.4.O.001.EI	Macroeconomics	<b>C</b>	1	1			2
Discipline domeniu							Domain subjects
UPB.12.D.4.O.012.EI	Field Analysis and Modelling	<b>E</b>	2		1		3
UPB.12.D.4.O.013.EI	Circuit Analysis and Modelling	<b>E</b>	2		2		5
UPB.12.D.4.O.014.EI	Electric Meas and Transducers	<b>C</b>	3		2		5
UPB.12.D.4.O.016.EI	Operating Systems	<b>E</b>	3		1	1	5
		<b>29</b>	<b>15</b>	<b>5</b>	<b>8</b>	<b>1</b>	<b>30</b>
<b>Discipline la alegere Libera</b>							<b>Free choice subjects</b>
Discipline complementare							Complementary subjects
UPB.12.C.4.L.002.EI	Limba si cultura romana (pentru straini)	<b>V</b>		2			2

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<b>Anul:</b>	<b>3</b>		<b>Year</b>
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Semestrul:	<b>5 (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>							<b>Compulsory subjects</b>
Discipline specialitate							Specialty subjects
UPB.12.S.5.O.004.EI	Data Transmissions	E	2		1		3
Discipline complementare							Complementary subjects
UPB.12.C.5.O.041.EI	Money and Banking	C	1	1			2
Discipline domeniu							Domain subjects
UPB.12.D.5.O.001.EI	Electronic Devices and Circuits I	E	2		1		3
UPB.12.D.5.O.002.EI	Algorithm Design and Complexity	C	2		1		3
UPB.12.D.5.O.002.EI	Signal Theory	E	2	1			4
UPB.12.D.5.O.003.EI	Computer Networks	E	3		2		5
UPB.12.D.5.O.003.EI	Formal languages and automata	C	2		1		3
UPB.12.D.5.O.005.EI	Databases	E	2		1	1	4
UPB.12.D.5.O.015.EI	Advanced Computer Graphics	C	1		1		3
		<b>28</b>	<b>17</b>	<b>2</b>	<b>8</b>	<b>1</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	MATERIA	Verif.	Curs	Sem	Lab	Proiect	Credite
Code	Subject	Verif.	Course	Tutorial	Lab	Project	Credits

<b>Discipline Obligatorii</b>	<b>Compulsory subjects</b>
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Discipline specialitate	Specialty subjects
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UPB.12.S.6.O.002.EI	Digital Signal Processing	<b>E</b>	3		1	1	4
UPB.12.S.6.O.003.EI	Neural Networks and Genetic Algorithms	<b>E</b>	2		1		2
UPB.12.S.6.O.003.EI	Web Application Development	<b>C</b>	2		1	1	3
UPB.12.S.6.O.004.EI	Human-Computer Interaction	<b>E</b>	2		1		3
UPB.12.S.6.O.007.EI	Practical Workshop	<b>C</b>					6

Discipline complementare	Complementary subjects
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UPB.12.C.6.O.041.EI	Business Administration	<b>C</b>	1	1			2
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Discipline domeniu	Domain subjects
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UPB.12.D.6.O.001.EI	Functional Programming	<b>E</b>	2		1		3
UPB.12.D.6.O.001.EI	Electronic Devices and Circuits II	<b>E</b>	2		1		3
UPB.12.D.6.O.002.EI	Software Development Methods	<b>E</b>	3		1	1	4

<b>28</b>	<b>17</b>	<b>1</b>	<b>7</b>	<b>3</b>	<b>30</b>
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<b>Discipline la alegere Libera</b>	<b>Free choice subjects</b>
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Discipline specialitate	Specialty subjects
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UPB.12.S.6.L.051.EI	Mobile device application development	<b>V</b>	2		1		3
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<b>Anul:</b>	<b>4</b>		<b>Year</b>
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Semestrul:	<b>7 (1)</b>		Semester
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Codul materiei	MATERIA	Verif.	Curs	Sem	Lab	Proiect	Credite
Code	Subject	Verif.	Course	Tutorial	Lab	Project	Credits

<b>Discipline Obligatorii</b>	<b>Compulsory subjects</b>
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Discipline specialitate	Specialty subjects
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UPB.12.S.7.O.001.EI	Software Design Techniques	E	2		1	1	5
UPB.12.S.7.O.002.EI	Mobile Systems & Wireless Sensor Network Programming	E	2		1	1	4
UPB.12.S.7.O.004.EI	Systems Engineering	E	2		2		5
UPB.12.S.7.O.005.EI	Bioinformatics	E	2		2		5
UPB.12.S.7.O.006.EI	Semantic Web	C	2		2		4

Discipline complementare	Complementary subjects
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UPB.12.C.7.O.041.EI	Fundamentals of Management	C	1	1			2
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Discipline domeniu	Domain subjects
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UPB.12.D.7.O.002.EI	Artificial Intelligence	E	3		1	1	5
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		<b>27</b>	<b>14</b>	<b>1</b>	<b>9</b>	<b>3</b>	<b>30</b>
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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	MATERIA	Verif.	Curs	Sem	Lab	Proiect	Credite
Code	Subject	Verif.	Course	Tutorial	Lab	Project	Credits

<b>Discipline Obligatorii</b>	<b>Compulsory subjects</b>
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Discipline specialitate	Specialty subjects
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UPB.12.S.8.O.003.EI	Robotics and Virtual Reality	<b>C</b>	2		2		5
UPB.12.S.8.O.004.EI	Diploma Project	<b>V</b>			8		10

Discipline complementare	Complementary subjects
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UPB.12.C.8.O.041.EI	Industrial Management	<b>V</b>	1	1			2
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Discipline domeniu	Domain subjects
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UPB.12.D.8.O.004.EI	Software Engineering	<b>C</b>	3		2		5
UPB.12.D.8.O.005.EI	Distributed Systems	<b>C</b>	3		2		5
UPB.12.D.8.O.010.EI	Compiler Techniques	<b>C</b>	2		1		3

<b>27</b>	<b>11</b>	<b>1</b>	<b>15</b>		<b>30</b>
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<b>Discipline la Alegere</b>	<b>Optional subjects</b>
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Discipline specialitate	Specialty subjects
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UPB.12.S.8.A.009.EI	Security and Encryption	<b>C</b>	2		1		3
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