

PLAN DE INVATAMANT	CURRICULUM
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Anul:	1	Year
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Semestrul:	1 (1)	Semester
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Codul materiei Code	MATERIA Subject	Verif. Verif.	Curs Course	Sem Tutorial	Lab Lab	Proiect Project	Credite Credits
Discipline Obligatorii Compulsory subjects							
Discipline Fundamentale				Basic subjects			
UPB.12.F.1.O.0.ES	Calculus I	E	3				6
UPB.12.F.1.O.002.ES	Linear Algebra	E	2				4
UPB.12.F.1.O.032.ES	Inorganic Chemistry I	E	3	2			4
Discipline Tehnice generale				Basic engineering courses			
UPB.12.T.1.O.001.ES	Materials Science I	E	2		1		4
UPB.12.T.1.O.021.ES	Introduction to Information Technology	C	1				3
UPB.12.T.1.O.023.ES	Engineering Graphics I	C	1		1		3
Discipline si stiinte Umaniste				Humanities and social sciences			
UPB.12.U.1.O.001.ES	Professional communication	C					2
UPB.12.U.1.O.002.ES	European Culture and Civilisation I	C	1				2
		17	13	2	2		28

Discipline la Alegere Optional subjects							
Discipline si stiinte Umaniste				Humanities and social sciences			
UPB.12.U.1.A.001.ES	Foreign language b (Spanish Language 1)	V		2			2
UPB.12.U.1.A.002.ES	Physical Education I	V		2			2

Discipline la alegere Libera Free choice subjects							
Discipline complementare				Complementary Topics			
UPB.12.C.1.L.005.ES	English for Engineering Academic Study 1	V	1	1			2
Discipline si stiinte Umaniste				Humanities and social sciences			
UPB.12.U.1.L.003.ES	Limba si cultura Romana (pentru straini)	V		2			2

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PLAN DE INVATAMANT	CURRICULUM
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Anul:	1		Year
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Semestrul:	2 (2)		Semester
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Codul materiei Code	MATERIA Subject	Verif. Verif.	Curs Course	Sem Tutorial	Lab Lab	Proiect Project	Credite Credits
Discipline Obligatorii							Compulsory subjects
Discipline Fundamentale							Basic subjects
UPB.12.F.2.O.001.ES	Calculus II	E	3	1			6
UPB.12.F.2.O.011.ES	Physics I	E	2	1	1		5
UPB.12.F.2.O.032.ES	Inorganic Chemistry II	E	2		2		5
UPB.12.F.2.O.042.ES	Programming languages	E	1		1		3
Discipline Tehnice generale							Basic engineering courses
UPB.12.T.2.O.001.ES	Materials Science II	E	2		1		3
UPB.12.T.2.O.012.ES	Theoretical Mechanics	C	1	1			2
Discipline de Specialitate							Specialities
UPB.12.S.2.O.001.ES	Collaborative Work 1	C		2			2
Discipline si stiinte Umaniste							Humanities and social sciences
UPB.12.U.2.O.002.ES	European Culture and Civilisation II	C	1	1			2
		23	12	6	5		28
Discipline la Alegere							Optional subjects
Discipline si stiinte Umaniste							Humanities and social sciences
UPB.12.U.2.A.001.ES	Foreign language b (Spanish Language 2)	V		2			2
UPB.12.U.2.A.002.ES	Physical Education	V		2			2
Discipline la alegere Libera							Free choice subjects
Discipline complementare							Complementary Topics
UPB.12.C.2.L.005.ES	English for Engineering Academic Study 2	V	1	1			2
Discipline si stiinte Umaniste							Humanities and social sciences
UPB.12.U.2.L.003.ES	Limba si cultura romana (pentru straini)	V		2			2
UPB.12.U.2.L.004.ES	Pedagogie 1	V	2	2			5

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PLAN DE INVATAMANT		CURRICULUM					
Anul:		2				Year	
Semestrul:		3 (1)				Semester	
Codul materiei Code	MATERIA Subject	Verif. Verif.	Curs Course	Sem Tutorial	Lab Lab	Proiect Project	Credite Credits
Discipline Obligatorii							Compulsory subjects
Discipline Fundamentale						Basic subjects	
UPB.12.F.3.O.002.ES	Probabilities & Statistics	C	1	1			2
UPB.12.F.3.O.011.ES	Physics II	E	2		1		4
UPB.12.F.3.O.031.ES	Physical Chemistry I	E	3	2			5
UPB.12.F.3.O.034.ES	Crystallography	E	3		2		4
Discipline Tehnice generale						Basic engineering courses	
UPB.12.T.3.O.001.ES	Strength of Materials I	E	2	1			4
UPB.12.T.3.O.002.ES	Electrical Engineering I	C	2	1			3
UPB.12.T.3.O.003.ES	Organic Chemistry	C	2		1		3
Discipline de Specialitate						Specialities	
UPB.12.S.3.O.001.ES	Colaborative work II	C		2			2
Discipline Economice						Economics	
UPB.12.E.3.O.001.ES	Microeconomics	C	1	1			2
		28	16	8	4		29
Discipline la alegere Libera							Free choice subjects
Discipline si stiinte Umaniste						Humanities and social sciences	
UPB.12.U.3.L.002.ES	Limba si cultura romana (pentru straini)	V		2			2

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PLAN DE INVATAMANT			CURRICULUM				
Anul:			2			Year	
Semestrul:			4 (2)			Semester	
Codul materiei Code	MATERIA Subject	Verif. Verif.	Curs Course	Sem Tutorial	Lab Lab	Proiect Project	Credite Credits
Discipline Obligatorii							Compulsory subjects
Discipline Fundamentale			Basic subjects				
UPB.12.F.4.O.031.ES	Physical Chemistry II	E	3	2			6
UPB.12.F.4.O.032.ES	Electrochemistry	E	2		1		3
Discipline Tehnice generale			Basic engineering courses				
UPB.12.T.4.O.001.ES	Polymers	E	2		2		5
UPB.12.T.4.O.003.ES	Physical Metallurgy	E	3	2			5
UPB.12.T.4.O.004.ES	Surface Engineering	C	2		1		3
UPB.12.T.4.O.023.ES	Numerical Methods	C	2	2			3
Discipline de Specialitate			Specialities				
UPB.12.S.4.O.001.ES	Technical writing	C		2			2
Discipline Economice			Economics				
UPB.12.E.4.O.001.ES	Macroeconomics	C	1	1			2
			28	15	9	4	29
Discipline la alegere Libera							Free choice subjects
Discipline si stiinte Umaniste			Humanities and social sciences				
UPB.12.U.4.L.002.ES	Limba si cultura romana (pentru straini)	V		2			2

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PLAN DE INVATAMANT	CURRICULUM
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Anul:	3	Year
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Semestrul:	5 (1)	Semester
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Codul materiei	MATERIA	Verif.	Curs	Sem	Lab	Proiect	Credite
Code	Subject	Verif.	Course	Tutorial	Lab	Project	Credits

Discipline Obligatorii	Compulsory subjects
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Discipline Tehnice generale							Basic engineering courses
UPB.12.T.5.O.001.ES	Properties of Materials (metals)	C	2		1		4
UPB.12.T.5.O.002.ES	Mass and Heat Transfer	E	3	2			5
UPB.12.T.5.O.003.ES	Theory of High Temperature Processes	E	2		1		3
UPB.12.T.5.O.004.ES	Phase Diagrams for Metals and Ceramics	C	2	2			4
UPB.12.T.5.O.005.ES	Thermal Technology and Units for Oxide Materials	C	2	1			3
UPB.12.T.5.O.006.ES	Computer Aided Design of Materials	C	2		1		4
UPB.12.T.5.O.007.ES	Industrial Equipments	E	3	2			5
Discipline manageriale							Management
UPB.12.M.5.O.041.ES	Money and Banking	C	1	1			2
		28	17	8	3		30

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Anul:	3	Year
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Semestrul:	6 (2)	Semester
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Codul materiei Code	MATERIA Subject	Verif. Verif.	Curs Course	Sem Tutorial	Lab Lab	Proiect Project	Credite Credits
Discipline Obligatorii							Compulsory subjects
Discipline de Specialitate							Specialities
UPB.12.S.6.O.001.ES	Thermodynamics of Industrial Reactions	V	1	1		2	3
UPB.12.S.6.O.002.ES	Instrumental Analysis	E	2		2		3
UPB.12.S.6.O.003.ES	Materials Solidifying	E	2		2		3
UPB.12.S.6.O.004.ES	Thermotechnological Installations	E	3		2		5
UPB.12.S.6.O.005.ES	Glass Technology	E	4		2		5
UPB.12.S.6.O.006.ES	Fracture Mechanics	E	2			1	3
UPB.12.S.6.O.007.ES	Practical Workshop	C					6
Discipline manageriale							Management
UPB.12.M.6.O.041.ES	Business Administration	C	1	1			2
		28	15	2	9	2	30

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Anul:	4		Year
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Semestrul:	7 (1)		Semester
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Codul materiei Code	MATERIA Subject	Verif. Verif.	Curs Course	Sem Tutorial	Lab Lab	Proiect Project	Credite Credits
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Discipline Obligatorii	Compulsory subjects
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Discipline de Specialitate							Specialities
UPB.12.S.7.O.001.ES	Ceramics Engineering	E	3		1		5
UPB.12.S.7.O.002.ES	Metals Processing by Casting & PlastDeformation	E	3		1		5
UPB.12.S.7.O.003.ES	Binders Technology	E	3		1		5
UPB.12.S.7.O.004.ES	Electrotechnologies	E	2		1		3
UPB.12.S.7.O.005.ES	Ferrous Alloys	C	2		1		3
UPB.12.S.7.O.006.ES	Control and Setting of Parameters	E	2		1		3
UPB.12.S.7.O.006.ES	Metallic Composite Materials	E	2		1		4
Discipline manageriale							Management
UPB.12.M.7.O.041.ES	Foundamentals of Management	C	1	1			2
		26	18	1	7		30

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Anul:	4		Year
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Semestrul:	8 (2)		Semester
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Codul materiei	MATERIA	Verif.	Curs	Sem	Lab	Proiect	Credite
Code	Subject	Verif.	Course	Tutorial	Lab	Project	Credits

Discipline Obligatorii	Compulsory subjects
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Discipline de Specialitate							Specialities
UPB.12.S.8.O.002.ES	Heat Treatments	C	2		1		3
UPB.12.S.8.O.003.ES	Composite Ceramic Materials	C	2		1		3
UPB.12.S.8.O.004.ES	Thermoresistant Materials	C	2		1		3
UPB.12.S.8.O.004.ES	Diploma Project	V				8	10
UPB.12.S.8.O.005.ES	Preparation and Processing of Metallic Powders	C	2		1		3
UPB.12.S.8.O.007.ES	Metallic Biomaterials	C	2		1		3
UPB.12.S.8.O.011.ES	Non-ferrous Alloys	C	2		1		3
Discipline manageriale							Management
UPB.12.M.8.O.041.ES	Industrial Management	V	1	1			2
		28	13	1	6	8	30

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