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| 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.EC | Calculus I | E | 3 | 1 | | | 6 |
| UPB.12.F.1.O.002.EC | Linear Algebra | E | 2 | 1 | | | 4 |
| UPB.12.F.1.O.032.EC | Inorganic Chemistry I | E | 3 | 2 | | | 4 |
| UPB.12.F.1.O.034.EC | Analytical Chemistry I | E | 2 | | 3 | | 4 |
| Discipline Tehnice generale | | | | Basic engineering courses | | | |
| UPB.12.T.1.O.021.EC | Introduction to Information Technology | C | 1 | | 2 | | 3 |
| UPB.12.T.1.O.023.EC | Engineering Graphics I | C | 1 | | 1 | | 3 |
| Discipline si stiinte Umaniste | | | | Humanities and social sciences | | | |
| UPB.12.U.1.O.001.EC | Professional communication | C | | 2 | | | 2 |
| UPB.12.U.1.O.002.EC | European Culture and Civilisation I | C | 1 | 1 | | | 2 |
| | | 26 | 13 | 7 | 6 | | 28 |

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

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

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PLAN DE INVATAMANT

CURRICULUM

Anul:

1

Year

Semestrul:

2 (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.2.O.001.EC | Calculus II | E | 3 | 1 | | | 6 |
| UPB.12.F.2.O.011.EC | Physics I | E | 2 | | 1 | | 5 |
| UPB.12.F.2.O.032.EC | Inorganic Chemistry II | E | 2 | 2 | 2 | | 5 |
| UPB.12.F.2.O.034.EC | Analytical Chemistry II | E | 2 | | 2 | | 3 |
| UPB.12.F.2.O.042.EC | Programming languages | E | 1 | | 1 | | 3 |
| Discipline Tehnice generale | | | | | | | Basic engineering courses |
| UPB.12.T.2.O.001.EC | Transition Metals Chemistry | E | 2 | 1 | | | 2 |
| UPB.12.T.2.O.012.EC | Theoretical Mechanics | C | 1 | 1 | | | 2 |
| Discipline de Specialitate | | | | | | | Specialities |
| UPB.12.S.2.O.001.EC | Collaborative Work 1 | C | | 2 | | | 2 |
| Discipline si stiinte Umaniste | | | | | | | Humanities and social sciences |
| UPB.12.U.2.O.002.EC | European Culture and Civilisation II | C | 1 | 1 | | | 2 |
| | | 28 | 14 | 8 | 6 | | 30 |
| Discipline la Alegere | | | | | | | Optional subjects |
| Discipline si stiinte Umaniste | | | | | | | Humanities and social sciences |
| UPB.12.U.2.A.001.EC | Foreign language b (Spanish Language 2) | V | | 2 | | | 2 |
| Discipline la alegere Libera | | | | | | | Free choice subjects |
| Discipline complementare | | | | | | | Complementary Topics |
| UPB.12.C.2.L.005.EC | English for Engineering Academic Study 2 | V | 1 | 1 | | | 2 |
| Discipline si stiinte Umaniste | | | | | | | Humanities and social sciences |
| UPB.12.U.2.L.003.EC | Limba si cultura romana (pentru straini) | V | | 2 | | | 2 |
| UPB.12.U.2.L.004.EC | Pedagogie 1 | V | 2 | 2 | | | 5 |

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| Anul: | 2 | | Year |
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| Semestrul: | 3 | (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.3.O.002.EC | Probabilities & Statistics | C | 1 | 1 | | | 2 |
| UPB.12.F.3.O.011.EC | Physics II | E | 2 | | 1 | | 4 |
| UPB.12.F.3.O.031.EC | Physical Chemistry I | E | 3 | 2 | | | 5 |
| UPB.12.F.3.O.032.EC | Physical Chemistry I Lab | C | | | 2 | | 2 |
| UPB.12.F.3.O.033.EC | Organic Chemistry I | E | 3 | 1 | 2 | | 6 |
| Discipline Tehnice generale | | | | | | | Basic engineering courses |
| UPB.12.T.3.O.001.EC | Strength of Materials I | E | 2 | 1 | | | 4 |
| UPB.12.T.3.O.002.EC | Electrical Engineering I | C | 2 | 1 | | | 3 |
| Discipline de Specialitate | | | | | | | Specialities |
| UPB.12.S.3.O.001.EC | Colaborative work II | C | | 2 | | | 2 |
| Discipline Economice | | | | | | | Economics |
| UPB.12.E.3.O.001.EC | Microeconomics | C | 1 | 1 | | | 2 |
| | | 28 | 14 | 9 | 5 | | 30 |
| Discipline la alegere Libera | | | | | | | Free choice subjects |
| Discipline si stiinte Umaniste | | | | | | | Humanities and social sciences |
| UPB.12.U.3.L.002.EC | Limba si cultura romana (pentru straini) | V | | 2 | | | 2 |

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| Anul: | 2 | Year |
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| 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.EC | Physical Chemistry II | E | 3 | 2 | | | 6 |
| UPB.12.F.4.O.032.EC | Physical Chemistry II laboratory | V | | | 2 | | 4 |
| UPB.12.F.4.O.033.EC | Organic Chemistry II | E | 3 | 1 | 2 | | 7 |
| Discipline Tehnice generale | | | | | | | Basic engineering courses |
| UPB.12.T.4.O.001.EC | Instrumental analysis in organic chemistry | E | 2 | | 2 | | 6 |
| UPB.12.T.4.O.023.EC | Numerical Methods | C | 2 | | 2 | | 3 |
| Discipline de Specialitate | | | | | | | Specialities |
| UPB.12.S.4.O.001.EC | Technical writing | C | | 2 | | | 2 |
| Discipline Economice | | | | | | | Economics |
| UPB.12.E.4.O.001.EC | Macroeconomics | C | 1 | 1 | | | 2 |
| | | 25 | 11 | 6 | 8 | | 30 |
| Discipline la alegere Libera | | | | | | | Free choice subjects |
| Discipline si stiinte Umaniste | | | | | | | Humanities and social sciences |
| UPB.12.U.4.L.002.EC | Limba si cultura romana (pentru straini) | V | | 2 | | | 2 |

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| Anul: | 3 | | Year |
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| Semestrul: | 5 (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.5.O.033.EC | Organic Chemistry III | E | 2 | | 2 | | 4 |
| Discipline Tehnice generale | | | | | | | Basic engineering courses |
| UPB.12.T.5.O.001.EC | Transport Processes I | E | 3 | 1 | 2 | | 6 |
| UPB.12.T.5.O.002.EC | Organic and Composite Materials | E | 3 | | 2 | | 5 |
| UPB.12.T.5.O.003.EC | Electrochemistry | E | 2 | | 2 | | 4 |
| UPB.12.T.5.O.004.EC | Reaction Mechanisms | E | 2 | 1 | | | 4 |
| UPB.12.T.5.O.005.EC | Organic Technologies | E | 2 | | 2 | | 5 |
| Discipline manageriale | | | | | | | Management |
| UPB.12.M.5.O.041.EC | Money and Banking | C | 1 | 1 | | | 2 |
| | | 28 | 15 | 3 | 10 | | 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 Tehnice generale | | | | Basic engineering courses | | | |
| UPB.12.T.6.O.001.EC | Inorganic Industrial Chemistry | V | 2 | 1 | | | 2 |
| UPB.12.T.6.O.002.EC | Biochemistry | E | 2 | | 2 | | 3 |
| UPB.12.T.6.O.003.EC | Organic Technologies II | E | 2 | | 2 | 1 | 5 |
| UPB.12.T.6.O.004.EC | Oxide and Metallic Materials | E | 3 | | 2 | | 4 |
| UPB.12.T.6.O.005.EC | Macromolecular Compounds I | E | 3 | | 2 | | 4 |
| UPB.12.T.6.O.006.EC | Unit Operations I | E | 2 | 1 | 1 | | 4 |
| Discipline de Specialitate | | | | Specialities | | | |
| UPB.12.S.6.O.007.EC | Practical Workshop | C | | | | | 6 |
| Discipline manageriale | | | | Management | | | |
| UPB.12.M.6.O.041.EC | Business Administration | C | 1 | 1 | | | 2 |
| | | 28 | 15 | 3 | 9 | 1 | 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 |
|---|-----------------------------|------------------|----------------|---------------------------|------------|--------------------|--------------------|
| Discipline Obligatorii Compulsory subjects | | | | | | | |
| Discipline Tehnice generale | | | | Basic engineering courses | | | |
| UPB.12.T.7.O.001.EC | Unit Operations II | E | 3 | 1 | 1 | 1 | 6 |
| UPB.12.T.7.O.002.EC | Macromolecular Compounds II | E | 3 | | 1 | | 5 |
| Discipline manageriale | | | | Management | | | |
| UPB.12.M.7.O.041.EC | Foundamentals of Management | C | 1 | 1 | | | 2 |
| | | 12 | 7 | 2 | 2 | 1 | 13 |

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| Discipline la Alegere Optional subjects | | | | | | | |
| Discipline de Specialitate | | | | Specialities | | | |
| Organic Chemistry | | | | | | | |
| UPB.12.S.7.A.201.EC | Pesticides | E | 2 | | | | 3 |
| UPB.12.S.7.A.202.EC | Stereochemistry | E | 2 | 1 | | | 3 |
| UPB.12.S.7.A.203.EC | Drugs | E | 2 | | | | 2 |
| UPB.12.S.7.A.204.EC | Fine Organic Syntheses | V | | | 5 | | 5 |
| UPB.12.S.7.A.205.EC | Dyes | E | 2 | | 2 | | 4 |
| | | 16 | 8 | 1 | 7 | | 17 |

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| Anul: | 4 | | Year |
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| Semestrul: | 8 (2) | | 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 | | | | | | | |
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| | | | | | | | Specialities |
| UPB.12.S.8.O.002.EC | Chemical Reactors | V | 3 | | 2 | 1 | 6 |
| UPB.12.S.8.O.007.EC | Diploma Project Chemistry | V | | | | 4 | 10 |
| | | | | | | | Management |
| UPB.12.M.8.O.041.EC | Industrial Management | V | 1 | 1 | | | 2 |
| | | 12 | 4 | 1 | 2 | 5 | 18 |

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| Discipline la Alegere | Optional subjects |
|------------------------------|--------------------------|

| Discipline de Specialitate | | | | | | | |
|----------------------------|--|-----------|-----------|--|----------|--|--------------|
| | | | | | | | Specialities |
| Organic Chemistry | | | | | | | |
| UPB.12.S.8.A.201.EC | Petrochemical and Carbochemical Technologies | V | 2 | | 1 | | 2 |
| UPB.12.S.8.A.202.EC | Tensioactive Compounds | V | 2 | | 2 | | 3 |
| UPB.12.S.8.A.203.EC | Catalysis | V | 2 | | 2 | | 3 |
| UPB.12.S.8.A.204.EC | Natural Products | V | 2 | | 1 | | 2 |
| UPB.12.S.8.A.205.EC | Pollution and Depollution | V | 2 | | | | 2 |
| | | 16 | 10 | | 6 | | 12 |

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