





















433S4

Materials Engineering

Materials Science

bachelor, level 6, from NQF, EQF 4-th Year 2

TPPUL

Titlu curs	Course title	Credit units	
Analiza matematica	Mathematical Analysis	5	E
Chimie	Chemistry	5	E
Comunicare	Communication	2	V
Educatie fizica si sport	Sports	1	V
Fizica	Physics	5	V
Geometrie descriptiva	Descriptive Geometry	5	E
Limba engleza	English	2	V
Stiinta si ingineria materialelor	Materials Science and Engineering	5	E
Algebra liniara, geometrie analitica si diferentia	Linear Algebra, Analytic Geometry and Differential	4	E
Desen tehnic si infografica I	Drawings and Infographics I	5	V
Educatie fizica si sport	Sports	1	V
Electrotehnica	Electrotechnics	5	E
Limba engleza	English	2	V
Mecanica I	Mechanics I	5	E
Programarea calculatoarelor si limbaje de programare	Computers Programming and Programming Languages	4	V
Tehnologia materialelor	Materials Technology	4	E
Desen tehnic si infografica	Drawings and Infographics	3	V
Educatie fizica si sport	Sports	3	V
Limba engleza	English	2	V
Masini unelte si prelucrari prin aschiere	Machine-Tools and Cutting Processing	3	V
Mecanica	Mechanics	5	E
Mecanisme	Mechanisms	4	E
Metode numerice	Numerical Methods	5	E
Rezistenta materialelor	Materials Strength	5	E
Educatie fizica si sport	Sports	3	V
Informatica aplicata	Applied Informatics	3	V
Limba engleza	English	2	V
Mecanica fluidelor	Fluid Mechanics	2	E
Mecanisme	Mechanisms	3	E
Mecanisme	Mechanisms	1	P
Organe de masini	Machine Parts	3	E
Organe de masini	Machine Parts	1	P
Practica de domeniu	Domain Practical Training	4	V
Rezistenta materialelor	Materials Strength	3	E
Termotehnica	Thermotechnics	2	E
Tolerante si control dimensional	Dimensional Control and Tolerances	3	V
Actionari hidraulice si pneumatice	Hydraulic and Pneumatic Drives	4	V
Elasticitate	Elasticity	5	E
Organe de masini II	Machine Parts II	2	P
Organe de masini II	Machine Parts II	4	E
Rezistenta materialelor III	Materials Strength III	4	E
Termotehnica II	Thermo-Technics II	5	E
Tribologie	Tribology	2	V
Vibratii mecanice	Mechanical Vibrations	4	E
Analiza cu elemente finite I	Finite Element Analysis I	5	E
Biomecanica	Biomechanics	3	E
Electronica aplicata	Applied Electronics	3	V
Masini de ridicat si transportat	Lifting and Conveying Machines	1	P
Masini de ridicat si transportat	Lifting and Conveying Machines	2	E
Motoare cu ardere interna	Internal-combustion engines	3	E
Optimizari in ingineria mecanica	Optimization in Mechanical Engineering	3	V
Plasticitate	Plasticity	3	E
Practica	Practical Training	3	V

Statica si stabilitatea structurilor	Statics and structures stability	4	E
Analiza cu elemente finite II	Finite Element Analysis II	4	E
Management si marketing	Management and Marketing	3	V
Mecanica contactului	Contact Mechanics	4	E
Mecanica contactului	Contact Mechanics	1	P
Mecanica, constructia si proiectarea structurilor II	Mechanics, Construction and Design of Structures II	1	P
Mecanica, constructia si proiectarea structurilor II	Mechanics, Construction and Design of Structures II	3	E
Modelare, simulare in dinamica sistemelor mecanice	Modeling and Simulation of Mechanical Systems Dynamics	4	E
Modelare, simulare in dinamica sistemelor mecanice	Modeling and Simulation of Mechanical Systems Dynamics	1	P
Statica, stabilitatea si dinamica structurilor II	Static and Dynamic Stability of Structures II	4	V
Structuri compozite	Composite Structures	1	P
Structuri compozite	Composite Structures	4	E
Colapsul structurilor mecanice	Collapse of Mechanical Structures	2	P
Colapsul structurilor mecanice	Collapse of Mechanical Structures	4	E
Elaborare proiect diploma	Graduation project elaboration	2	V
Managementul calitatii	Quality Management	2	V
Metode experimentale in ingineria mecanica	Experimental Modeling in Mechanical Engineering	5	E
Modelare, simulare in dinamica sistemelor mecanice	Modeling and Simulation of Mechanical Systems Dynamics	2	P
Modelare, simulare in dinamica sistemelor mecanice	Modeling and Simulation of Mechanical Systems Dynamics	4	E
Modelari numerice in mecanica fluidelor	Numerical Modeling for Fluids Mechanics	5	E
Structuri sudate	Welded Structures	4	E
Audit termoenergetic	Thermal Energy Audit	2	V
Centrale termoelectrice	Thermal-Electrical Plants	4	E
Centrale termoelectrice	Thermal-Electrical Plants	1	P
Combaterea poluarii produse de motoarele cu ardere interna	Methods for Controlling Pollution Generated by Internal Combustion Engines	4	E
Instalatii frigorifice si pompe de caldura II	Refrigerating Systems and Heat Pumps II	2	P
Instalatii frigorifice si pompe de caldura II	Refrigerating Systems and Heat Pumps II	4	E
Management si marketing	Management and Marketing	3	V
Tehnica utilizarii frigului artificial	Techniques of Using Artificial Cold	1	P
Tehnica utilizarii frigului artificial	Techniques of Using Artificial Cold	3	E
Turbine cu abur si gaze	Steam and Gas Turbines	2	P
Turbine cu abur si gaze	Steam and Gas Turbines	4	E
Actionari cu motoare cu ardere interna	Drives for Internal Combustion Engines	3	E
Bazele cercetarii experimentale a masinilor termice	Essentials of Experimental Research on Thermal Machines	4	E
Criogenie tehnica	Cryogenic Engineering	4	E
Elaborare proiect diploma	Graduation project elaboration	2	V
Energii regenerabile	Renewable Energy	4	E
Fabricarea si exploatarea masinilor termice	Manufacturing and Operating Thermal Machines	3	V
Managementul securitatii si sanatatii in munca	Management of Health and Safety at Workplace	2	V
Reglarea si automatizarea masinilor termice	Adjustment and Automatic Control of Heat Machines	4	E
Utilizarea si gestionarea energiei termice	Use and Management of Heat Energy	4	E
Analiza matematica	Mathematical Analysis	5	E
Chimie	Chemistry	5	E
Comunicare	Communication	2	V
Educatie fizica si sport	Sports	1	V
Fizica	Physics	5	V
Geometrie descriptiva	Descriptive Geometry	5	E
Limba engleza	English	2	V
Stiinta si ingineria materialelor	Materials Science and Engineering	5	E
Algebra liniara, geometrie analitica si diferentia	Linear Algebra, Analytic Geometry and Differential	5	E
Desen tehnic si infografica I	Drawings and Infographics I	4	V
Educatie fizica si sport	Sports	1	V
Electrotehnica	Electrotechnics	5	E

Limba engleza	English	2	V
Mecanica I	Mechanics I	5	E
Programarea calculatoarelor si limbaje de programare	Computers Programming and Programming Languages	4	V
Tehnologia materialelor	Materials Technology	4	E
Desen tehnic si infografica II	Drawings and Infographics II	4	E
Educatie fizica si sport	Sports	2	V
Limba engleza	English	2	V
Mecanica II	Mechanics II	4	E
Mecanisme I, II	Mechanisms I, II	5	E
Metode numerice	Numerical Methods	5	E
Rezistenta materialelor I, II	Materials Strength I, II	5	E
Termotehnica	Thermotechnics	3	V
Bazele generarii suprafetelor	Essentials of Surface Generation	3	V
Educatie fizica si sport	Sports	2	V
Informatica aplicata	Applied Informatics	3	V
Limba engleza	English	1	V
Mecanica fluidelor	Fluid Mechanics	3	E
Mecanisme I, II	Mechanisms I, II	1	P
Mecanisme I, II	Mechanisms I, II	3	E
Organe de masini I	Machine Parts I	1	P
Organe de masini I	Machine Parts I	3	E
Practica de domeniu	Domain Practical Training	4	V
Rezistenta materialelor I, II	Materials Strength I, II	3	E
Tolerante si control dimensional	Dimensional Control and Tolerances	3	E
Actionari hidraulice si pneumatice	Hydraulic and Pneumatic Drives	1	P
Actionari hidraulice si pneumatice	Hydraulic and Pneumatic Drives	3	E
Bazele proceselor de sudare	Welding Processes	4	E
Calcul cu element finit	Finite Element Calculation	4	E
Masini unelte	Machine-Tools	3	V
Organe de masini II	Machine Parts II	3	E
Organe de masini II	Machine Parts II	2	P
Proiectarea sculelor aschietoare	Cutting-Tools Design	3	E
Tehnologia constructiilor de masini I, II	Machine Manufacturing I, II	3	E
Tehnologii de sudare prin topire	Fusion Welding Technologies	4	E
Bazele generarii suprafetelor	Essentials of Surface Generation	3	V
Bazele proiectarii dispozitivelor I	Essentials of Devices Design I	3	E
Masini unelte	Machine-Tools	3	E
Masini unelte	Machine-Tools	1	P
Practica	Practical Training	2	V
Procese de deformare plastica la rece I	Cold Plastic Deformation Processes I	3	E
Proiectarea sculelor aschietoare	Cutting-Tools Design	1	P
Proiectarea sculelor aschietoare	Cutting-Tools Design	3	E
Tehnologia constructiilor de masini I, II	Machine Manufacturing I, II	1	P
Tehnologia constructiilor de masini I, II	Machine Manufacturing I, II	3	E
Tehnologii de sudare prin topire	Fusion Welding Technologies	3	E
Tehnologii de sudare prin topire	Fusion Welding Technologies	1	P
Tratamente termice	Heat Treatments	3	V
Bazele proiectarii dispozitivelor II	Essentials of Devices Design II	2	P
Bazele proiectarii dispozitivelor II	Essentials of Devices Design II	3	E
Fenomene termice in procese de prelucrare	Thermal Phenomena in Manufacturing Processes	3	V
Prelucrarea maselor plastice	Plastic Materials Processing	3	E
Prelucrarea maselor plastice	Plastic Materials Processing	2	P
Procese de deformare plastica la rece II	Cold Plastic Deformation Processes II	3	E

Procese de deformare plastica la rece II	Cold Plastic Deformation Processes II	2	P
Proiectare tehnologica asistata de calculator	Computer-Aided Technology Design	3	E
Sisteme si echipamente de comanda numerica	Numerical Control Systems and Equipment	3	E
Tehnologii de sudare prin presiune	Pressure Welding Technologies	3	V
Tehnologii neconventionale	Unconventional technologies	3	V
Control nedistructiv	Non-Destructive Control	3	E
Echipamente pentru sudare	Welding Equipment	3	E
Management	Management	4	E
Procedee conexe sudarii	Welding Related Processes	3	V
Proiectare tehnologica asistata de calculator	Computer-Aided Technology Design	3	V
Proiectarea structurilor sudate	Welded Structures Design	3	E
Proiectarea structurilor sudate	Welded Structures Design	2	P
Sisteme si echipamente de comanda numerica	Numerical Control Systems and Equipment	4	V
Tehnologii de sudare prin presiune	Pressure Welding Technologies	4	E
Tutoriat elaborare proiect diploma	Tutorial on Graduation Paper Work	1	V
Analiza matematica	Mathematical Analysis	5	E
Chimie	Chemistry	5	E
Comunicare	Communication	2	V
Educatie fizica si sport	Sports	1	V
Fizica	Physics	5	V
Geometrie descriptiva	Descriptive Geometry	5	E
Limba engleza	English	2	V
Stiinta si ingineria materialelor	Materials Science and Engineering	5	E
Algebra liniara, geometrie analitica si diferentia	Linear Algebra, Analytic Geometry and Differential	4	E
Desen tehnic si infografica I	Drawings and Infographics I	4	V
Educatie fizica si sport	Sports	1	V
Electrotehnica si masini electrice	Electrotechnics and Electrical Machines	5	E
Limba engleza	English	2	V
Mecanica I	Mechanics I	5	E
Programarea calculatoarelor si limbaje de programare	Computers Programming and Programming Languages	4	V
Tehnologia materialelor	Materials Technology	5	E
Bazele ingineriei autovehiculelor	Fundamentals of Vehicle Engineering	3	E
Desen tehnic si infografica II	Drawings and Infographics II	4	V
Educatie fizica si sport	Sports	3	V
Limba engleza	English	2	V
Mecanica II	Mechanics II	4	E
Mecanisme I, II	Mechanisms I, II	4	E
Metoda elementului finit	Finite Element Method	3	V
Metode numerice	Numerical Methods	3	E
Rezistenta materialelor I, II	Materials Strength I, II	4	E
Educatie fizica si sport	Sports	3	V
Informatica aplicata	Applied Informatics	2	V
Limba engleza	English	2	V
Mecanica fluidelor	Fluid Mechanics	3	E
Mecanisme I, II	Mechanisms I, II	1	P
Mecanisme I, II	Mechanisms I, II	2	E
Organe de masini I	Machine Parts I	3	E
Organe de masini I	Machine Parts I	1	P
Practica de domeniu	Domain Practical Training	4	V
Rezistenta materialelor I, II	Materials Strength I, II	3	E
Termotehnica I	Thermo-Technics I	4	E
Tolerante si control dimensional	Dimensional Control and Tolerances	2	V
Actionari hidraulice si pneumatice	Hydraulic and Pneumatic Drives	4	V

Dinamica autovehiculelor I, II	Motor Vehicles Dynamics I, II	4	E
Motoare cu ardere interna I, II	Internal Combustion Engine I, II	4	E
Motoare cu ardere interna I, II	Internal Combustion Engine I, II	1	P
Organe de masini II si tribologie	Machine Parts Design II and Tribology	4	E
Organe de masini II si tribologie	Machine Parts Design II and Tribology	2	P
Termotehnica II	Thermo-Technics II	4	E
Trafic rutier si siguranta circulatiei	Road Traffic and Traffic Safety	4	E
Vibratii mecanice	Mechanical Vibrations	3	V
Bazele sistemelor automate	Essentials of Automation Systems	3	V
Combustibili, lubrifianti, materiale speciale si de intretinere	Fuels, Lubricants, Special Materials and Maintenance	3	V
Constructia si calculul autovehiculelor I	Construction and Calculation of Motor Vehicles I	6	E
Dinamica autovehiculelor I, II	Motor Vehicles Dynamics I, II	2	P
Dinamica autovehiculelor I, II	Motor Vehicles Dynamics I, II	4	E
Electronica aplicata	Applied Electronics	4	E
Motoare cu ardere interna I, II	Internal Combustion Engine I, II	4	E
Motoare cu ardere interna I, II	Internal Combustion Engine I, II	1	P
Practica	Practical Training	3	V
Combaterea poluarii produse de motoarele cu ardere interna	Methods for Controlling Pollution Generated by Internal Combu	4	E
Constructia si calculul autovehiculelor II	Construction and Calculation of Motor Vehicles II	2	P
Constructia si calculul autovehiculelor II	Construction and Calculation of Motor Vehicles II	4	E
Diagnosticarea autovehiculelor	Motor Vehicle Diagnosis	4	E
Echipamente electrice si electronice ale autovehiculelor	Electrical and Electronic Equipment for Motor Vehicles	4	E
Fabricarea si repararea autovehiculelor	Manufacture and Repair of Motor Vehicles	4	E
Fabricarea si repararea autovehiculelor	Manufacture and Repair of Motor Vehicles	1	P
Management si marketing	Management and Marketing	3	V
Mecatronica autovehiculelor	Motor Vehicles Mechatronics	4	E
Caroserii si structuri portante pentru autovehicule	Motor Vehicle Chassis and Driving Structures	4	E
Constructia si calculul instalatiilor auxiliare ale autovehiculelor	Construction and Calculation of Motor Vehicle Auxiliary Installa	4	E
Elaborare proiect diploma	Graduation project elaboration	2	V
Fiabilitatea si terotehnica autovehiculelor	Motor Vehicle Reliability and Terrotechnics	3	E
Managementul securitatii si sanatatii in munca	Management of Health and Safety at Workplace	3	V
Mentenanata autovehiculelor	Maintenance of Motor Vehicles	4	E
Organizarea si functionarea unui service auto	Organization and operation of a car service shop	2	V
Proiectare asistata de calculator	Computer-Aided Design	4	V
Sisteme de propulsie electrice si hibride	Electric and Hybrid Propulsion Systems	4	E
Analiza matematica	Mathematical Analysis	4	E
Chimie I, II	Chemistry I, II	5	E
Comunicare	Communication	3	V
Educatie fizica si sport	Sports	1	V
Fizica	Physics	5	V
Geometrie descriptiva	Descriptive Geometry	5	E
Limba engleza	English	2	V
Stiinta si ingineria materialelor	Materials Science and Engineering	5	E
Algebra liniara, geometrie analitica si diferentia	Linear Algebra, Analytic Geometry and Differential	4	E
Chimie I, II	Chemistry I, II	5	E
Desen tehnic si infografica	Drawings and Infographics	5	V
Ecologie	Ecology	4	E
Educatie fizica si sport	Sports	1	V
Hidrologie si hidrogeologie	Hydrology and Hydrogeology	5	E
Limba engleza	English	2	V
Programarea calculatoarelor si limbaje de programare	Computers Programming and Programming Languages	4	V
Calitatea mediului, epidemiologie si sanatate publica	Environmental quality, epidemiology and public health	5	E
Educatie fizica si sport	Sports	2	V

Electrotehnica	Electrotechnics	3	V
Grafica asistata de calculator	Computer Aided Graphics	4	V
Limba engleza	English	2	V
Metode numerice	Numerical Methods	5	E
Rezistenta materialelor	Materials Strength	4	E
Surse, procese si produse poluante	Sources, processes and polluting products	5	E
Analiza si sinteza proceselor tehnologice	Analysis and Synthesis of Technological Processes	3	V
Educatie fizica si sport	Sports	2	V
Electronica	Electronics	3	V
Elemente de electrochimie si coroziune	Elements of Electrochemistry and Corrosion	4	E
Limba engleza	English	2	V
Mecanica fluidelor	Fluid Mechanics	4	E
Organe de masini	Machine Parts	3	E
Organe de masini	Machine Parts	1	P
Practica de domeniu	Domain Practical Training	4	V
Termotehnica	Thermotechnics	4	E
Bazele proceselor de prelucrare si valorificare a deseurilor	Essentials of processing and recovery of waste	5	E
Management ecologic	Environmental management	4	E
Nanotehnologii	Nanotechnologies	4	E
Poluarea aerului	Air Pollution	5	E
Senzori si actuatori	Sensors and Actuators	3	V
Tehnologii si echipamente de epurare a apelor uzate	Technologies and Equipment for Used-Water Treatment	5	E
Transfer de caldura si masa	Heat and Mass Transfer	4	E
Fizica atmosferei si hidrologie	Atmospheric Physics and Hydrology	4	E
Poluarea aerului	Air Pollution	3	V
Poluarea aerului	Air Pollution	1	P
Practica	Practical Training	2	V
Surse de radiatii si tehnici de protectie	Sources of Radiation and Protective Techniques	4	E
Tehnici de achizitie, monitorizare si diagnoza a calitatii mediului	Technology of acquisition, monitoring and diagnosis of environment	4	E
Tehnologii si echipamente de epurare a apelor uzate	Technologies and Equipment for Used-Water Treatment	4	E
Tehnologii si echipamente de epurare a apelor uzate	Technologies and Equipment for Used-Water Treatment	1	P
Tratarea deseurilor toxice si periculoase	Treatment of Toxic and Hazardous Waste	3	V
Utilaje specifice ingineriei mediului	Devices Specific to Environmental Engineering	3	V
Utilaje specifice ingineriei mediului	Devices Specific to Environmental Engineering	1	P
Biotehnologii	Biotechnology	4	E
Depozite ecologice	Ecological deposits	4	E
Energii regenerabile	Renewable Energy	5	E
Evaluarea impactului de mediu	Environmental Impact Assessment	4	E
Evaluarea impactului de mediu	Environmental Impact Assessment	1	P
Legislatia protectiei mediului	Environment Protection Legislation	3	V
Regularizari de rauri si indiguiri	Regularization of Rivers and Dams	4	V
Tehnologii de tratare si valorificare a deseurilor	Waste Treatment and Recovery Technologies	5	E
Automatizarea proceselor tehnologice si biotehnologice	Automation of Technological and Biotechnological Processes	4	E
Dezvoltare durabila	Sustainable Development	3	V
Economia mediului	Environmental economics	3	V
Elaborare proiect diploma	Graduation project elaboration	2	V
Management energetic	Energy Management	4	E
Managementul securitatii si sanatatii in munca	Management of Health and Safety at Workplace	3	V
Sisteme informatice in ingineria mediului	Information Technology Systems in Environmental Engineering	3	V
Tehnologii de tratare si valorificare a deseurilor	Waste Treatment and Recovery Technologies	3	E
Tehnologii de tratare si valorificare a deseurilor	Waste Treatment and Recovery Technologies	1	P
Tehnologii si echipamente pentru tratarea solurilor poluate	Technologies and Equipment for Contaminated Soils Treatment	4	E
Analiza matematica	Mathematical Analysis	5	E



Chimie	Chemistry	5	E
Comunicare	Communication	2	V
Educatie fizica si sport	Sports	1	V
Fizica	Physics	5	V
Geometrie descriptiva	Descriptive Geometry	5	E
Limba engleza	English	2	V
Stiinta si ingineria materialelor	Materials Science and Engineering	5	E
Algebra liniara, geometrie analitica si diferentia	Linear Algebra, Analytic Geometry and Differential	5	E
Desen tehnic si infografica	Drawings and Infographics	4	V
Educatie fizica si sport	Sports	1	V
Electrotehnica	Electrotechnics	5	E
Limba engleza	English	2	V
Mecanica	Mechanics	5	E
Programarea calculatoarelor si limbaje de programare	Computers Programming and Programming Languages	4	V
Tehnologia materialelor	Materials Technology	4	E
Cercetari operationale	Operational Research	4	E
Educatie fizica si sport	Sports	2	V
Grafica asistata de calculator	Computer Aided Graphics	4	V
Limba engleza	English	2	V
Metode numerice	Numerical Methods	4	E
Prelucrari prin aschiere	Cutting operations	4	V
Rezistenta materialelor	Materials Strength	5	E
Termotehnica si echipamente termice	Thermotechnics and thermal equipment	5	E
Bazele economiei	Fundamentals of Economy	3	E
Calcul de pret si cost	Calculation of Price and Cost	3	E
Contabilitate	Accounting	3	E
Educatie fizica si sport	Sports	2	V
Limba engleza	English	2	V
Managementul calitatii	Quality Management	3	E
Mecanica fluidelor si echipamente hidraulice	Fluid mechanics and hydraulic equipment	3	E
Mecanisme si organe de masini I	Mechanisms and Machine Parts I	3	E
Mecanisme si organe de masini I	Mechanisms and Machine Parts I	1	P
Practica de domeniu	Domain Practical Training	4	V
Tolerante si control dimensional	Dimensional Control and Tolerances	3	V
Cercetari operationale	Operational Research	3	E
Elemente de drept civil	Elements of Civil Law	3	E
Managementul proceselor de montaj	Management of Assembly Processes	3	E
Marketing	Marketing	4	V
Organe de masini II	Machine Parts II	4	E
Organe de masini II	Machine Parts II	3	P
Proiectarea sculelor aschietoare	Cutting-Tools Design	3	P
Proiectarea sculelor aschietoare	Cutting-Tools Design	4	E
Tehnologia fabricarii produselor	Product Manufacturing Technology	3	V
Bazele generarii suprafetelor	Essentials of Surface Generation	3	E
Contabilitate financiara	Financial Accounting	3	E
Drept financiar - fiscal	Fiscal and Financial Law	3	V
Inginerie concurentiala	Competitive Engineering	3	E
Logistica industriala	Industrial Logistics	3	E
Practica	Practical Training	4	V
Proiectare tehnologica asistata	Computer-aided Design	3	E
Tehnologia fabricarii produselor	Product Manufacturing Technology	2	P
Tehnologia fabricarii produselor	Product Manufacturing Technology	3	E
Utilaje pentru prelucrari mecanice	Equipment for Machining	3	V

Contabilitate financiara	Financial Accounting	3	E
Contabilitate financiara	Financial Accounting	1	P
Dispozitive de prelucrare	Machining Devices	4	E
Dispozitive de prelucrare	Machining Devices	2	P
Management	Management	4	E
Managementul fabricatiei asistate	Management of Assisted Manufacturing	4	V
Prelucrarea maselor plastice	Plastic Materials Processing	4	E
Prelucrarea maselor plastice	Plastic Materials Processing	2	P
Prelucrari prin deformare plastica	Plastic Deformation Technologies	2	P
Prelucrari prin deformare plastica	Plastic Deformation Technologies	4	E
Analiza sistemelor economice	Economic Systems Analysis	2	P
Analiza sistemelor economice	Economic Systems Analysis	3	E
Legislatia muncii	Labor Legislation	3	E
Management	Management	3	E
Management	Management	2	P
Managementul cercetarii si dezvoltarii	Management of Research and Development	4	E
Managementul mediului	Environmental Management	4	E
Planificarea resurselor intreprinderii - ERP	Enterprise Resource Planning - ERP	4	V
Tehnologii de rapid - prototyping	Rapid - prototyping technologies	4	V
Tutoriat elaborare proiect diploma	Tutorial on Graduation Paper Work	1	V
Analiza matematica	Mathematical Analysis	5	E
Chimie	Chemistry	5	E
Comunicare	Communication	2	V
Educatie fizica si sport	Sports	1	V
Fizica	Physics	5	V
Geometrie descriptiva	Descriptive Geometry	5	E
Limba engleza	English	2	V
Stiinta si ingineria materialelor	Materials Science and Engineering	5	E
Algebra liniara, geometrie analitica si diferentia	Linear Algebra, Analytic Geometry and Differential	4	E
Chimie fizica	Physical chemistry	5	E
Desen tehnic si infografica	Drawings and Infographics	5	V
Educatie fizica si sport	Sports	1	V
Electrotehnica	Electrotechnics	3	V
Limba engleza	English	2	V
Programarea calculatoarelor si limbaje de programare	Computers Programming and Programming Languages I	5	E
Tehnologia materialelor	Materials Technology	5	E
Educatie fizica si sport	Sports	2	V
Ingineria fabricatiei	Engineering of manufacturing	1	P
Ingineria fabricatiei	Engineering of manufacturing	4	E
Limba engleza	English	2	V
Metode numerice	Numerical Methods	4	E
Programarea calculatoarelor si limbaje de programare II	Computers Programming and Programming Languages II	1	P
Programarea calculatoarelor si limbaje de programare II	Computers Programming and Programming Languages II	4	E
Rezistenta materialelor	Materials Strength	4	E
Tehnici de analiza si caracterizare a materialelor	Tehniqoue of analysis and characterization material:	4	E
Termotehnica	Thermotechnics	4	V
Educatie fizica si sport	Sports	2	V
Electronica si automatizari	Electronics and automation	3	E
Limba engleza	English	2	V
Mecanica fluidelor	Fluid Mechanics	3	V
Metalurgie fizica I	Physical Metallurgy I	3	E
Organe de masini si mecanisme	Machine parts and mechanisms	1	P
Organe de masini si mecanisme	Machine parts and mechanisms	3	E
Practica de domeniu	Domain Practical Training	4	V

Proprietatile materialelor	Material properties	3	E
Protectia mediului in industrie	Environmental protection in industry	3	V
Teoria plasticitatii si ruperii materialelor	The theory of plasticity and material breakage	3	E
Baze de date	Database	3	V
Elaborarea metalelor si aliajelor neferoase	Elaboration of Non-Ferrous Metals and Alloys	4	E
Elaborarea metalelor si aliajelor neferoase	Elaboration of Non-Ferrous Metals and Alloys	1	P
Fabricarea asistata de calculator si tehnici de prototipare	Computer-Assisted Manufacturing and Prototyping Techniques	5	E
Materiale compozite	Composite Materials	4	V
Metalurgie fizica	Physical Metallurgy	5	E
Metoda diferentelor si elementelor finite	Differences and Finite Elements Method	3	V
Senzori si actuatori	Sensors and Actuators	5	E
Elaborarea aliajelor feroase	Elaboration of Ferrous Alloys	5	E
Elaborarea aliajelor feroase	Elaboration of Ferrous Alloys	1	P
Informatica aplicata in analiza structurala a materialelor	Informatics Applied in The Structural Analysis of Materials	4	V
Materiale multifunctionale	Multifunctional Materials	3	V
Practica	Practical Training	3	V
Procesarea prin turnare	Casting Processing	4	E
Programarea interfetelor grafice	Programming Graphical Interfaces	4	E
Programarea interfetelor grafice	Programming Graphical Interfaces	1	P
Sisteme de achizitie, interfete si instrumentatie virtuala	Acquisition Systems, Interfaces and Virtual Instrumentation	5	E
Management si marketing	Management and Marketing	4	V
Managementul mediului si al deseurilor	Environmental and Waste Management	4	V
Modelarea procesarii materialelor in stare lichida	Modeling Liquid Materials Processing	5	E
Prelucrarea plastica a materialelor	Plastic Processing of Materials	4	V
Rețele de calculatoare	Computer Networks	3	V
Tehnologia procesarii pulberilor	Powder Processing Technology	4	E
Tehnologia procesarii pulberilor	Powder Processing Technology	1	P
Tratamente termice si termochimice	Thermal and Thermochemical Treatments	5	E
Automatizarea proceselor tehnologice	Automation of technological processes	4	E
Degradarea si protectia materialelor	Materials Degradation and Protection	4	V
Elaborare proiect diploma	Graduation project elaboration	3	V
Managementul calitatii	Quality Management	3	V
Materiale ceramice si refractare	Ceramic and Refractory Materials	4	E
Modelarea si optimizarea proceselor	Process Modeling and Optimization	4	V
Modelarea si simularea procesarii materialelor in stare solida	Modeling and Simulation of Solid State Processing	4	E
Proiectarea si utilizarea materialelor	Design and Use of Materials	3	E
Proiectarea si utilizarea materialelor	Design and Use of Materials	1	P
Ingineria suprafetelor		5	E
Management si marketing	Management and Marketing	4	V
Managementul mediului si al deseurilor	Environmental and Waste Management	4	E
Prelucrarea plastica a materialelor	Plastic Processing of Materials	4	V
Proiectarea asistata de calculator	Computer-Aided Design	3	V
Tehnologia procesarii pulberilor	Powder Processing Technology	4	E
Tehnologia procesarii pulberilor	Powder Processing Technology	1	P
Tratamente termice si termochimice	Thermal and Thermochemical Treatments	5	E
Automatizarea proceselor tehnologice	Automation of technological processes	4	E
Elaborare proiect diploma	Graduation project elaboration	3	V
Managementul calitatii	Quality Management	3	V
Materiale avansate	Advanced materials	4	V
Modelarea si optimizarea proceselor	Process Modeling and Optimization	3	V
Procedee speciale de prelucrare a materialelor	Special processing of materials	4	E
Proiectarea si utilizarea materialelor	Design and use of materials	1	P
Proiectarea si utilizarea materialelor	Design and use of materials	4	E

