Study plan

Name of study plan: 10 121 NSTI VSZ 2012 základ

Faculty/Institute/Others:

Department:

Branch of study guaranteed by the department: Welcome page

Garantor of the study branch: Program of study: Welcome page

Type of study: unknown Required credits: 137 Elective courses credits: -6 Sum of credits in the plan: 131

Note on the plan:

Name of the block: Compulsory courses in the program

Minimal number of credits of the block: 128

The role of the block: P

Code of the group: 12NS*1P-VSZ

Name of the group: 2012 NSTI 1.sem povinné VSZ

Requirement credits in the group: In this group you have to gain 34 credits

Requirement courses in the group: In this group you have to complete 8 courses

Credits in the group: 34 Note on the group:

| Code | Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.) | Completion | Credits | Scope | Semester | Role |
|---------|---|------------|---------|----------|----------|------|
| 2351158 | Hydraulic and Pneumatic Systems Antonín Bubák, Tomáš Krannich Antonín Bubák Antonín Bubák (Gar.) | Z,ZK | 4 | 2P+0C+2L | * | Р |
| 2311075 | Mechanics of Mechanisms Václav Bauma, Petr Beneš, Zden k Neusser, Jan Pelikán, Zbyn k Šika, Michael Valášek, Jan Zav el Zbyn k Šika Zbyn k Šika (Gar.) | ZK | 4 | 3P+0C | * | Р |
| 2141093 | Microelectronics Lukáš Novák, Stanislava Papežová Stanislava Papežová Lukáš Novák (Gar.) | Z,ZK | 3 | 2P+0C+1L | * | Р |
| 2353111 | Project 1. Josef Kekula, Petr Kolá, Mat j Sulitka, Vladimír Andrlík Vladimír Andrlík Vladimír Andrlík (Gar.) | Z | 5 | 0P+5C+0L | * | Р |
| 2312017 | Controlled mechanical systems I. Václav Bauma, Zden k Neusser, Zbyn k Šika, Michael Valášek, Ivo Bukovský, Pavel Steinbauer Michael Valášek Michael Valášek (Gar.) | KZ | 3 | 3P+0C | * | Р |
| 2351054 | Production Machines and Equipment Tomáš Krannich | Z,ZK | 5 | 3P+0C+1L | * | Р |

Characteristics of the courses of this group of Study Plan: Code=12NS*1P-VSZ Name=2012 NSTI 1.sem povinné VSZ

| 2351158 | Hydraulic and Pneumatic Systems | Z,ZK | 4 |
|----------------------|--|---------------------|------------------|
| Classification, prin | iciple and structure of hydraulic and pneumatic mechanisms (HPM). Transmission and conversion of energy. Design and function of I | nydraulic and pne | umatic elements |
| Function of typical | HPM. Proportional elements and their applications. Servomechanisms. Hydraulic and pneumatic drives. Assembly, operation and | maintenance. | |
| 2311075 | Mechanics of Mechanisms | ZK | 4 |
| 2141093 | Microelectronics | Z,ZK | 3 |
| Basic characterist | ics of logic circuits and programmable logical systems, input and output circuits - voltage and current matching, D/A and A/D conv | erters, coding, lin | es and protocols |
| of communications | s, electronic and optoelectronic parts for microelectronics, microprocessor system applications. | | |
| 2353111 | Project 1. | Z | 5 |
| Practicing of the d | lesign of machine parts with an emphasis on understanding geometric and dimensional tolerances and surface roughness. | | , |
| 2312017 | Controlled mechanical systems I. | KZ | 3 |
| 2351054 | Production Machines and Equipment | Z,ZK | 5 |
| Manufacturing ma | chines and equipment contains three basic parts. These are forming machines, machine tools and industrial robots and manipulat | ors. Characteristi | cs of machines |
| | | | |

Manufacturing machines and equipment contains three basic parts. These are forming machines, machine tools and industrial robots and manipulators. Characteristics of machines and equipment for realization of discrete technological processes will be explained, technical parameters, basics of construction of production machines and equipment, construction of machine tools, TS design, automation of production machines and equipment, industrial manipulators and robots, their applications, single-purpose and modular machines, production lines. Examples of application of production machines and equipment.

Code of the group: 12NS*2P-VSZ

Name of the group: 2012 NSTI 2.sem povinné VSZ

Requirement credits in the group: In this group you have to gain 33 credits

Requirement courses in the group: In this group you have to complete 7 courses

Credits in the group: 33

Note on the group:

| Code | Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.) | Completion | Credits | Scope | Semester | Role |
|---------|---|------------|---------|----------|----------|------|
| 2311074 | Vibrations of Mechanical Systems Václav Bauma | ZK | 4 | 3P+0C | * | Р |
| 2351084 | Numerical Control of Production Machines and Equipment Control Petr Vavruška | Z,ZK | 4 | 2P+0C+2L | * | Р |
| 2351121 | Drives of Production Machines - Servomechanisms I Vojt ch Matyska | Z,ZK | 4 | 3P+0C+1L | * | Р |
| 2353112 | Project II Tomáš Krannich Tomáš Krannich (Gar.) | Z | 5 | 0P+5C+0L | * | Р |

Characteristics of the courses of this group of Study Plan: Code=12NS*2P-VSZ Name=2012 NSTI 2.sem povinné VSZ

| 2311074 | Vibrations of Mechanical Systems | ZK | 4 | | | | |
|---|--|---------------------|-------------------|--|--|--|--|
| 2351084 | Numerical Control of Production Machines and Equipment Control | Z,ZK | 4 | | | | |
| Numerical controled cutting machines, means of programming, coordinate systems, ISO code. NC program, its creating using CAD/CAM layers, postprocessors. CNC inner structure, | | | | | | | |
| interaction of its parts, control system modes. Real-time operating systems. | | | | | | | |
| 2351121 | Drives of Production Machines - Servomechanisms I | Z,ZK | 4 | | | | |
| Mathematical apparatu | s for signal processing in drives of NC machines and robots, sampling, Fourier and Laplace transforms, Laplace images of typic | cal functions and t | ransfer functions | | | | |
| of drive components. S | ensors of quantities in drives, auxiliary el. circuits, filters. Vibration suppression in NC machines. Pulse excitation. | | | | | | |
| 2353112 | Project II | Z | 5 | | | | |
| The course is focused on the design of forming machines and on the design of the whole automated workplace. The design and design of the drives is designed with respect to a wide | | | | | | | |
| range of selected machine types. Depending on the product, the machine is designed first and then the entire workplace. The project has the character of a study and takes place in | | | | | | | |
| | | | | | | | |

Code of the group: 12NS*3P-VSZ

teams. The thesis is finally defended by all members

Name of the group: 2012 NSTI 3.sem povinné VSZ

Requirement credits in the group: In this group you have to gain 31 credits

Requirement courses in the group: In this group you have to complete 6 courses

Credits in the group: 31 Note on the group:

| Code | Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.) | Completion | Credits | Scope | Semester | Role |
|---------|---|------------|---------|-----------|----------|------|
| 2351122 | Servomechanisms of Production Machines Vojt ch Matyska, Jan Moravec Vojt ch Matyska Vojt ch Matyska (Gar.) | Z,ZK | 4 | 3P+0C+1L | * | Р |
| 2353113 | Project III Petr Kolá | Z | 10 | 0P+10C+0L | * | Р |

Characteristics of the courses of this group of Study Plan: Code=12NS*3P-VSZ Name=2012 NSTI 3.sem povinné VSZ

| 2351122 | Servomechanisms of Production Machines | Z,ZK | 4 | | | |
|---|--|------|----|--|--|--|
| Actuator in servomecha | Actuator in servomechanisms (hydraulic motors and electric motors), control equipment. Transmission mechanisms of production machines feed drives. Increasing of feed drive axes | | | | | |
| dynamics, special kinematics arrangement. Dynamic model of feed drive axis. Vibration suppression in feed drive axes. | | | | | | |
| 2353113 | Project III | Z | 10 | | | |

Code of the group: 12NS*4P-VSZ

Name of the group: 2012 NSTI 4.sem povinné VSZ

Requirement credits in the group: In this group you have to gain 30 credits

Requirement courses in the group: In this group you have to complete 7 courses

Credits in the group: 30

Note on the group:

| Code | Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.) | Completion | Credits | Scope | Semester | Role |
|---------|---|------------|---------|-----------|----------|------|
| 2353998 | Diploma Project Tomáš Krannich, Petr Kolá, Vladimír Andrlík, Michal Fürbacher, Petr Vavruška, Jan Brajer, Michal Stejskal, Eduard Stach Vladimír Andrlík Vladimír Andrlík (Gar.) | Z | 10 | 0P+10C+0L | * | Р |
| 2351123 | Drives of Production Machines - Servomechanisms III. Ji í Švéda | Z,ZK | 4 | 3P+0C+1L | * | Р |
| 2353890 | Project IV. Vladimír Andrlík | Z | 4 | 0P+10C+0L | * | Р |
| 2351087 | Industrial Robots and Manipulators Tomáš Krannich, Petr Kolá, Vladimír Andrlík, Ji í Švéda Petr Kolá Petr Kolá (Gar.) | Z,ZK | 3 | 2P+0C+1L | * | Р |
| 2383062 | Budget and Project Economic Assessment | Z | 2 | 1P+2C | * | Р |

Characteristics of the courses of this group of Study Plan: Code=12NS*4P-VSZ Name=2012 NSTI 4.sem povinné VSZ

| 2353998 | Diploma Project | | 10 | ı | | |
|--|--|---------------------|---------------------|---|--|--|
| The course focuses on | processing the final thesis within the scope of the assigned topic of the bachelor thesis. The student is acquainted with the gi | eneral principles o | of the final thesis | ı | | |
| and during regular weekly consultations with the supervisor proceeds in the professional solution of the assigned problem and at the same time works on the actual text of the final | | | | | | |
| thesis. In the course of | the solution, the student completes a small oral presentation where the work in progress is presented. | | | ı | | |

| 2351123 | Drives of Production Machines - Servomechanisms III. | Z,ZK | 4 |
|---------|--|------|---|
| 2353890 | Project IV. | Z | 4 |

Constructional and computational processing of real tasks of motion nodes and systems. A high level of creative thinking and innovative designs and practices are required. The tasks have a direct link to industrial practice and its needs. The second part is focused on the design of machine tool construction nodes (eg cradle, milling head, quill). The aim is to create a real construction node of a machine tool with all design calculations and drawing documentation in the form of a design drawing according to the entered parameters

| 2351087 | Industrial Robots and Manipulators | Z,ZK | 3 | | | |
|--|--|------|---|--|--|--|
| Construction of industrial robots and manipulators, kinematic structures, various types of driving units, moving units, end effectors. | | | | | | |
| 2383062 | Budget and Project Economic Assessment | Z | 2 | | | |

The goal of the course is to improve the knowledge gained within the basic bachelor's degree course Management and Economics of the Enterprise. The course focuses primarily on deepening of basic knowledge and skills in the creation and evaluation of the operational budget, proper preparation and evaluation of costing model for manufactured products and the economic evaluation of an investment project, as it corresponds to contemporary knowledge and the development of management methods and techniques. Students specify a simple fictional industrial or engineering company or its sub-section (preferably inspired by their practical experience, internships or training program in real company). The first student's task is to prepare a detailed plan and budget of a project (e.g. new product development, product or process innovation, etc.) focused on improvement of profitability, competitiveness or effectiveness of the company. The second task is cost calculation for chosen calculation unit. Last task within this course is the evaluation of economical effectiveness of the project described within the first task. The dynamic methods like Net Present Value (NPV), Internal Rate of Return (IRR) or Discounted Payback Period (DPP) are used for this evaluation. The quality of realization and presentation of the task's outputs together with the results of the test decides on granting / denial of credit.

Name of the block: Compulsory elective courses

Minimal number of credits of the block: 3

The role of the block: PV

Code of the group: 12N**3Q--JV

Name of the group: 2012 N 3.sem povinná jazyková výuka

Requirement credits in the group: In this group you have to gain 2 credits

Requirement courses in the group: In this group you have to complete 1 course

Credits in the group: 2 Note on the group:

| Code | Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.) | Completion | Credits | Scope | Semester | Role |
|---------|---|------------|---------|-------|----------|------|
| 2043081 | English - Preparatory Course / FME Veronika Kratochvílová | Z | 2 | 0P+2C | * | PV |
| 2043086 | Czech - Preparatory Course Petr Laurich, Hana Volejníková | Z | 2 | 0P+2C | * | PV |
| 2043083 | French - Preparatory Course / FME Dušana Jirovská Michaela Schusová Dušana Jirovská (Gar.) | Z | 2 | 0P+2C | * | PV |
| 2043082 | German - Lower Intermediate Course Petr Laurich, Jaroslava Kommová, Eliška Vítková Jaroslava Kommová Jaroslava Kommová (Gar.) | Z | 2 | 0P+2C | * | PV |
| 2043085 | Russian - Preparatory Course / FME Hana Volejníková, Dušana Jirovská Eliška Vítková | Z | 2 | 0P+2C | * | PV |
| 2043084 | Spanish - Preparatory Course / FME Jaime Andrés Villagómez Eliška Vítková | Z | 2 | 0P+2C | * | PV |

Characteristics of the courses of this group of Study Plan: Code=12N**3Q--JV Name=2012 N 3.sem povinná jazyková výuka

| 2043081 | English - Preparatory Course / FME | Z | 2 | | | |
|--|------------------------------------|---|---|--|--|--|
| Aim: Understanding clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. Writing in a simple way about | | | | | | |
| familiar topics. Reading and comprehension of simple texts. Improvement of professional language. European level A1 - A2. | | | | | | |

| 2043086 | Czech - Preparatory Course | Z | 2 |
|----------------------|---|--------------------|------------------|
| Aim: Understanding | g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the | m. Writing in a si | mple way abou |
| familiar topics. Rea | ding and comprehension of simple texts. Improvement of professional language. | | |
| 2043083 | French - Preparatory Course / FME | Z | 2 |
| Aim: Understanding | g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the | m. Writing in a si | mple way about |
| familiar topics. Rea | ding and comprehension of simple texts. Improvement of professional language. | | |
| 2043082 | German - Lower Intermediate Course | Z | 2 |
| Mapped to the leve | l of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations whi | ch a student mee | s either in the |
| company or in his/h | er free time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Impr | ovement of profes | ssional language |
| 2043085 | Russian - Preparatory Course / FME | Z | 2 |
| Aim: Understanding | g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the | m. Writing in a si | nple way about |
| familiar topics. Rea | ding and comprehension of simple texts. Improvement of professional language. | | |
| 2043084 | Spanish - Preparatory Course / FME | Z | 2 |
| Aim: Understanding | g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about the | m. Writing in a si | mple way about |
| familiar tonics Rea | ding and comprehension of simple texts. Improvement of professional language | | |

Code of the group: 12N**3Q--JZ

Name of the group: 2012 N 3.sem povinná jazyková zkouška

Requirement credits in the group: In this group you have to gain 1 credit

Requirement courses in the group: In this group you have to complete 1 course

Credits in the group: 1 Note on the group:

| Code | Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.) | Completion | Credits | Scope | Semester | Role |
|---------|--|------------|---------|-------|----------|------|
| 2041081 | English - Master Exam Veronika Kratochvílová, Hana Volejníková, Ilona Šimice, Michaela Schusová, Michele Le Blanc Ilona Šimice (Gar.) | ZK | 1 | 0P+0C | * | PV |
| 2041086 | Czech- Master Exam Petr Laurich, Hana Volejníková | ZK | 1 | 0P+0C | * | PV |
| 2041083 | French - Master Exam / FME Dušana Jirovská Dušana Jirovská (Gar.) | ZK | 1 | 0P+0C | * | PV |
| 2041082 | German - Master Exam / FME Petr Laurich, Jaroslava Kommová, Eliška Vítková Jaroslava Kommová Jaroslava Kommová (Gar.) | ZK | 1 | 0P+0C | * | PV |
| 2041085 | Russian - Master Exam / FME Hana Volejníková, Dušana Jirovská Eliška Vítková | ZK | 1 | 0P+0C | * | PV |
| 2041084 | Spanish - Master Exam / FME Jaime Andrés Villagómez Eliška Vítková Jaime Andrés Villagómez (Gar.) | ZK | 1 | 0P+0C | * | PV |

Characteristics of the courses of this group of Study Plan: Code=12N**3Q--JZ Name=2012 N 3.sem povinná jazyková zkouška

| Characteristics of | the courses of this group of Study Plan: Code=12N**3QJZ Name=2012 N 3.sem povinná | jazyková zko | uška |
|----------------------------|--|---------------------|------------------|
| 2041081 | English - Master Exam | ZK | 1 |
| Mapped to the level of 0 | common European Framework of Reference: A2. Aim: Understanding clearly what is spoken about everyday situations which | a student meets | at school or in |
| his/her free time and sp | eaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement | of professional lan | iguage. |
| 2041086 | Czech- Master Exam | ZK | 1 |
| 2041083 | French - Master Exam / FME | ZK | 1 |
| Mapped to the level of C | common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations whic | h a student meets | either at school |
| or in his/her free time ar | nd speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improveme | nt of professional | language. |
| 2041082 | German - Master Exam / FME | ZK | 1 |
| Mapped to the level of C | ommon European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations whic | h a student meets | either at school |
| or in his/her free time ar | nd speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improveme | nt of professional | language. |
| 2041085 | Russian - Master Exam / FME | ZK | 1 |
| Mapped to the level of C | ommon European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations whic | h a student meets | either at school |
| or in his/her free time ar | nd speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improveme | nt of professional | language. |
| 2041084 | Spanish - Master Exam / FME | ZK | 1 |
| Mapped to the level of C | common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations whic | h a student meets | either at school |
| or in his/her free time ar | nd speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improveme | nt of professional | language. |

Name of the block: Elective courses Minimal number of credits of the block: 6

The role of the block: V

Code of the group: 12NS*1V-VSZ

Name of the group: 2012 NSTI 1.sem volitelné VSZ doporu ené

Requirement credits in the group: In this group you have to gain 3 credits

Requirement courses in the group: In this group you have to complete 1 course

Credits in the group: 3

Note on the group:

| Code | Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.) | Completion | Credits | Scope | Semester | Role |
|---------|---|------------|---------|----------|----------|------|
| 2356024 | CAD in Production Machine Design Jaroslav ervenka | Z | 3 | 0P+3C+0L | * | V |

Characteristics of the courses of this group of Study Plan: Code=12NS*1V-VSZ Name=2012 NSTI 1.sem volitelné VSZ doporu ené

2356024 CAD in Production Machine Design Z

Basics of modeling in Siemens NX. Sketching of basic 2D geometry and creation of 3D models. Creating rotating and non-rotating parts and generating 2D drawings (views, sections, dimensions, geometric tolerances). Creating assemblies and subassemblies and creating assembly drawings with positions, generating parts lists. Creating weldments and machined welds. Creating parametric models, using "Synchronous technology" and other special functions.

Code of the group: 12NS*2V-VSZ

Name of the group: 2012 NSTI 2.sem volitelné VSZ doporu ené

Requirement credits in the group: In this group you have to gain 3 credits

Requirement courses in the group: In this group you have to complete 1 course

Credits in the group: 3 Note on the group:

| Code | Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.) | Completion | Credits | Scope | Semester | Role |
|---------|---|------------|---------|----------|----------|------|
| 2356025 | Simulation Production Machine | Z | 3 | 0P+0C+3L | * | V |

Characteristics of the courses of this group of Study Plan: Code=12NS*2V-VSZ Name=2012 NSTI 2.sem volitelné VSZ doporu ené

2356025 | Simulation Production Machine | Z | 3 | Learning outcomes of the course unit The subject is aimed at gaining information about fundamentals of modeling of parts and whole machines by finite element method, preparation of geometry for FEM model, creation of free and mapped mesh, definition of boundary conditions, calculations of properties of single bodies.

List of courses of this pass:

| Code | Name of the course | Completion | Credits |
|--------------------|--|----------------------|--------------|
| 2041081 | English - Master Exam | ZK | 1 |
| Mapped to the le | vel of Common European Framework of Reference: A2. Aim: Understanding clearly what is spoken about everyday situations which a | student meets at s | chool or in |
| his/her free tir | ne and speaking about them. Writing in a simple way about familiar topics. Reading and comprehension of simple texts. Improvement | of professional lan | guage. |
| 2041082 | German - Master Exam / FME | ZK | 1 |
| Mapped to the leve | el of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations which a | student meets eith | er at school |
| or in his/her fre | e time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improvemer | t of professional la | inguage. |
| 2041083 | French - Master Exam / FME | ZK | 1 |
| Mapped to the leve | el of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations which a | student meets eith | er at schoo |
| or in his/her fre | e time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improvemer | t of professional la | inguage. |
| 2041084 | Spanish - Master Exam / FME | ZK | 1 |
| Mapped to the leve | el of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations which a | student meets eith | er at schoo |
| or in his/her fre | e time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improvemer | t of professional la | inguage. |
| 2041085 | Russian - Master Exam / FME | ZK | 1 |
| Mapped to the leve | el of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations which a | student meets eith | er at schoo |
| or in his/her fre | e time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improvemen | t of professional la | inguage. |
| 2041086 | Czech- Master Exam | ZK | 1 |
| 2043081 | English - Preparatory Course / FME | Z | 2 |
| Aim: Understandi | ng clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. | Writing in a simple | way about |
| | familiar topics. Reading and comprehension of simple texts. Improvement of professional language. European level A1 - A2 | | |
| 2043082 | German - Lower Intermediate Course | Z | 2 |
| Mapped to the le | vel of Common European Framework of Reference A2 Aim: Understanding clearly spoken language about everyday situations which | a student meets e | ther in the |
| company or in his/ | ner free time and speaking about them. Writing in a simple way about familiar topics. reading and comprehesion of simple texts. Improver | ment of profession | al language |
| 2043083 | French - Preparatory Course / FME | Z | 2 |
| Aim: Understandi | ng clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. | Writing in a simple | way about |
| | familiar topics. Reading and comprehension of simple texts. Improvement of professional language. | | |
| 2043084 | Spanish - Preparatory Course / FME | Z | 2 |
| Aim: Understandi | ng clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. | Writing in a simple | way about |
| | familiar topics. Reading and comprehension of simple texts. Improvement of professional language. | | |

| | Russian - Preparatory Course / FME | Z | 2 |
|--|--|--|---|
| Aim: Understanding | g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. | Writing in a simple | way about |
| | familiar topics. Reading and comprehension of simple texts. Improvement of professional language. | | |
| 2043086 | Czech - Preparatory Course | Z | 2 |
| Aim: Understanding | g clearly what is spoken about everyday situations which a student meets at school or in his/her free time and speaking about them. | Writing in a simple | way about |
| | familiar topics. Reading and comprehension of simple texts. Improvement of professional language. | | |
| 2141093 | Microelectronics | Z,ZK | 3 |
| | s of logic circuits and programmable logical systems, input and output circuits - voltage and current matching, D/A and A/D converte | rs, coding, lines ar | nd protocols |
| | of communications, electronic and optoelectronic parts for microelectronics, microprocessor system applications. | | |
| 2311074 | Vibrations of Mechanical Systems | ZK | 4 |
| 2311075 | Mechanics of Mechanisms | ZK | 4 |
| 2312017 | Controlled mechanical systems I. | KZ | 3 |
| 2351054 | Production Machines and Equipment | Z,ZK | 5 |
| | chines and equipment contains three basic parts. These are forming machines, machine tools and industrial robots and manipulators | | _ |
| _ | realization of discrete technological processes will be explained, technical parameters, basics of construction of production machines | | |
| | S design, automation of production machines and equipment, industrial manipulators and robots, their applications, single-purpose and | | |
| | lines. Examples of application of production machines and equipment. | | , , , |
| 2351084 | Numerical Control of Production Machines and Equipment Control | Z,ZK | 4 |
| | d cutting machines, means of programming, coordinate systems, ISO code. NC program, its creating using CAD/CAM layers, postpro | | |
| Trainionioai controlo | interaction of its parts, control system modes. Real-time operating systems. | | o. o. aota.o, |
| 2351087 | Industrial Robots and Manipulators | Z,ZK | 3 |
| 2001007 | Construction of industrial robots and manipulators, kinematic structures, various types of driving units, moving units, end effec | | 0 |
| 2351121 | Drives of Production Machines - Servomechanisms I | Z,ZK | 4 |
| | ratus for signal processing in drives of NC machines and robots, sampling, Fourier and Laplace transforms, Laplace images of typical fi | | - |
| matricinatical appai | of drive components. Sensors of quantities in drives, auxiliary el. circuits, filters. Vibration suppression in NC machines. Pulse exc | | ci idilottorio |
| 2351122 | Servomechanisms of Production Machines | Z,ZK | 4 |
| | echanisms (hydraulic motors and electric motors), control equipment. Transmission mechanisms of production machines feed drives | | |
| Actuator in servoin | dynamics, special kinematics arrangement. Dynamic model of feed drive axis. Vibration suppression in feed drive axes. | . Increasing or leed | dilve axes |
| 2351123 | Drives of Production Machines - Servomechanisms III. | Z,ZK | 4 |
| | | | |
| 2351158 | Hydraulic and Pneumatic Systems | Z,ZK | 4 |
| | iple and structure of hydraulic and pneumatic mechanisms (HPM). Transmission and conversion of energy. Design and function of hydr of typical HPM. Proportional elements and their applications. Servomechanisms. Hydraulic and pneumatic drives. Assembly, operatic | = | |
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| 2353111 | Project 1. | | _ |
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| 2252442 | Practicing of the design of machine parts with an emphasis on understanding geometric and dimensional tolerances and surface ro | oughness. | |
| 2353112 | Practicing of the design of machine parts with an emphasis on understanding geometric and dimensional tolerances and surface representations of the design of machine parts with an emphasis on understanding geometric and dimensional tolerances and surface representations. | bughness. | 5 |
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The quality of realization and presentation of the task's outputs together with the results of the test decides on granting / denial of credit.