Recomended pass through the study plan

Name of the pass: Electrical Engineering, Electronics and Communication - Passage through study

Faculty/Institute/Others: Department: Pass through the study plan: Electrical Enginnering, Electronics and Communications Branch of study guranteed by the department: Common courses Guarantor of the study branch: Program of study: Welcome page Type of study: unknown combined Note on the pass:

Coding of roles of courses and groups of courses:

P - compulsory courses of the program, PO - compulsory courses of the branch, Z - compulsory courses, S - compulsory elective courses, PV compulsory elective courses, F - elective specialized courses, V - elective courses, T - physical training courses

Coding of ways of completion of courses (KZ/Z/ZK) and coding of semesters (Z/L): KZ - graded assesment, Z - assesment, ZK - examination, L - summer semester, Z - winter semester

Number of semester: 1

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
BEZB	Safety in Electrical Engineering for a Bachelor's Degree Ivana Nová, Radek Havlí ek, Vladimír K la Radek Havlí ek Vladimír K la (Gar.)	Z	0	2BP+2BC	Z,L	Ρ
BD5B01LAG	Linear Algebra	Z,ZK	8	28KP+6KC	Z	Р
BD5B16MME	Macro and Microekonomics Helena Fialová	Z,ZK	4	14KP+6KS	Z	Р
BD5B01MA1	Mathematical Analysis 1 Paola Vivi Josef Tkadlec Josef Tkadlec (Gar.)	Z,ZK	8	28KP+6KC	Z	Ρ
BD5B36PRP	Procedural Programming Ivan Jelínek Ivan Jelínek Ivan Jelínek (Gar.)	Z,ZK	6	14KP+6KC	Z	Ρ
BEZZ	Basic Health and Occupational Safety Regulations Ivana Nová, Radek Havlí ek, Vladimír K la Radek Havlí ek Vladimír K la (Gar.)	Z	0	2BP+2BC	Z	Ρ
BD5B14ZEL	Fundamentals of Electrotechnical Engineering Ivana Nová Ivana Nová	KZ	4	14KP+6KC	Z	Ρ

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
BD5B01DRN	Differencial Equations and Numerical Analysis	Z,ZK	6	14KP+6KC	L	Р
BD5B31EO1	Electronic Circuits 1 Roman mejla Roman mejla Roman mejla (Gar.)	Z,ZK	5	14KP+6KC	L	Р
BD5B34EPS	Electronics Lubor Jirásek Lubor Jirásek Lubor Jirásek (Gar.)	KZ	4	14KP+6KL	. L	Ρ
BD5B02FY1	Physics 1 Jaroslav Plocek Jaroslav Plocek Jaroslav Plocek (Gar.)	Z,ZK	7	14KP+6KC	L	Ρ
BD5B16MPS	Psychology Josef ernohous, Alena Klesalová, Jaroslav Knápek Jaroslav Knápek Alena Klesalová (Gar.)	Z	4	14KP+6KS	L	Ρ
BD5B01MA2	Miroslav Korbelá Miroslav Korbelá Petr Hájek (Gar.)	Z,ZK	8	28KP+6KC	L	Р

Number of semester: 3

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
BD5B17EMP	Electromagnetic Field Jan Machá , Zbyn k Škvor Zbyn k Škvor Jan Machá (Gar.)	Z,ZK	5	14KP+6KS	Z	Ρ
BD5B31EO2	Electronic Circuits 2 Ji í Náhlík Ji í Hospodka Ji í Hospodka (Gar.)	Z,ZK	5	14KP+6KC	Z	Ρ
BD5B02FY2	Physics 2 Jaroslav Plocek Jaroslav Plocek (Gar.)	Z,ZK	7	14KP+6KC	Z	Ρ
BD5B37PPC	C/C++ programming Stanislav Vítek Stanislav Vítek (Gar.)	ΚZ	4	14KP+6KC	Z	Р
		Min. cours.				
	Povinn volitelné p edm ty	9	Min/Max			514
2016_BEEKPV-K	BD5B37AVT,BD5B31CZS, (see the list of groups below)	Max. cours.	36/72			PV
		18				

Number of seme	ster: 4					
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
BD5B38EMA	Electrical Measurements Vladimír Haasz Vladimír Haasz (Gar.)	KZ	5	14P+6L	L	Р
BD5B99IN1	Individual project Lubor Jirásek, Vladimír Janí ek Lubor Jirásek	Z	4	0+4s	L	Ρ
BD5B34MIK	Microcontrollers Tomáš Teplý, Vladimír Janí ek Tomáš Teplý Tomáš Teplý (Gar.)	Z,ZK	4	14KP+6KL	. L	Ρ
BD5B01STP	Statistics and Probability Kate ina Helisová Kate ina Helisová (Gar.)	Z,ZK	6	14KP+6KC	L	Ρ
2016_BEEKPV-K	Povinn volitelné p edm ty BD5B37AVT,BD5B31CZS, (see the list of groups below)	Min. cours. 9 Max. cours. 18	Min/Max 36/72			PV
2016_BEEKVOL-K	Volitelné p edm ty	Min. cours. 0	Min/Max 0/999			V

Number of seme	ster: 5					
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
BD5B99IN2	Individual project Lubor Jirásek, Vladimír Janí ek	Z	8	0+8s	Z	Р
2016_BEEKPV-K	Povinn volitelné p edm ty BD5B37AVT,BD5B31CZS, (see the list of groups below)	Min. cours. 9 Max. cours. 18	Min/Max 36/72			PV
2016_BEEKVOL-K	Volitelné p edm ty	Min. cours. 0	Min/Max 0/999			V

Number of seme	ster: 6					
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
BBAP20	Bachelor thesis Roman mejla Roman mejla (Gar.)	Z	20	12S	L,Z	Ρ
BD5B16ZFM	Basics of Financial Management Blanka Ku erková, Old ich Starý Old ich Starý (Gar.)	Z,ZK	4	14KP+6KS	L	Р
2016_BEEKPV-K	Povinn volitelné p edm ty BD5B37AVT,BD5B31CZS, (see the list of groups below)	Min. cours. 9	Min/Max 36/72			PV

Max. cours.			
18			

List of groups of courses of this pass with the complete content of members of individual groups

Kód		Name of the group of group (for specificat	of courses and ion see here of	d codes of members of this or below the list of courses)	Con	pletion	Credit	s Scope	Semester	Role
2016_BEE	EKPV-K	Pov	inn volitelné	p edm ty		. cours. 9 . cours. 18	Min/Ma 36/72			PV
BD5B37AVT	Audiovisua	l Technology	BD5B31CZS	Digital Signal Processing		BD5B32		Data Network	S	
BD5B32DIT	Digital Tecl	nnique	BD5B17ELD	Electrodynamics		BD5B15	EN1 F	ower Engine	ering 1	
BD5B15EN2	Power Eng	ineering 2	BD5B15EN3	Power Engineering 3		BD5B13	MVE I	Aterials for F	Power Electrica	l E
BD5B34MIT	Microelect	ronics	BD5B34SEE	Senzors in Electronics and Elect		BD5B37	SAS S	Signals and systems		
BD5B17TBK	Wireless C	ommunication Technique	BD5B13VST	Power components and technology	/	BD5B13	vvz i	/lanufacturing	of Power Dev	ices
BD5B14ZPO	Fundameta	als of Electric Drives	BD5B14ZSP	Electric Machines and Apparatuse		BD5B14	ZVE F	Power Electronics		
2016_BEE	KVOL-K		Volitelné p e	dm ty	Min	. cours. 0	Min/Ma 0/999	x		v

List of courses of this pass:

BBAP20 G 20 BD5B01DRN Differencial Equations and Numerical Analysis Z,ZK 6 This course introduces students to the classical theory of ordinary differential equations (separable and linear ODEs) and also to bics of numerical and practical point of view. BD5B01MA1 Z,ZK 8 BD5B01MA2 Mathematical Analysis 1 Z,ZK 8 BD5B01MA2 The aim of the course is to introduce students to basics of differential and integral calculus of functions of one variable. Z,ZK 8 BD5B01MA2 The aim of the course is to introduce students to basics of differential and integral calculus of functions of one variable. Z,ZK 8 BD5B01MA2 Z,ZK 6 7 7 The basic course of physics at the Faculty of Electrical Engineering - Physics 1, is devoted to the introduction into two important areas of physics. The first one is a classical mechanics, each or a sequence of physics at the Faculty of Electrical Engineering - Physics 1, is devoted to the introduction in the wareal to an use the faculty of the transformer of a classical mechanics, each calcular and rajdeb basic problems dealing with the description of mechanical systems, which they can used the integral calculus to the students to the students to buy the relativistic mechanics, lectric an angenetic field - both stationary as well as non-stationary. The students can use the facult gained in this course in the study of electrical Engineering is a cansical mechanics, each cana canasta in	Code	Name of the course	Completion	Credits
This course introduces students to the classical theory of ordinary differential equations (separative and linear ODEs) and also to basics of numerical methods (errors in calculations and stability, numerical solutions of algebraic and differential equations and their systems). The course takes advantage of the synnergy between theoretical and practical point of view. BD5B01LAG Linear Algebra Z,ZK 8 BD5B01MA1 Mathematical Analysis 1 Z,ZK 8 BD5B01MA2 The aim of the course is to introduce students to basics of differential and integral calculus of functions of one variable. Z,ZK 8 BD5B01MA2 Z,ZK 8 8 8 7 8 BD5B01MP Statistics and Probability Z,ZK 8 7 The basic course of physics. The factor of probability and mathematical statistics, and show them the computing methods together with their applications of praxis. 7 The basic course of physics. The factorical Engineering - Physics 1, is devoted to the introducion in two important areas of physics. The first one is a classical mechanics and the description of mechanical systems, which they can meet during their further studies. The students is tollowed by the relativistic mechanics, aperatice and right bodies. The students is not be able to solve basic problems dealing with the description of mechanical systems, which they can meet during their further students. The course Physics 2 is closely linked with the course Physics 1. Z,ZK 7 <	BBAP20	Bachelor thesis	Z	20
stability, numerical solutions of algebraic and differential equations and their systems). The course takes advantage of the synnergy between theoretical and practical point of view. BD5B01LAG Linear Algebra Z,ZK 8 BD5B01MA2 Z,ZK 8 BD5B01MA2 Z,ZK 8 BD5B01MA2 Z,ZK 8 BD5B01MA2 Z,ZK 8 BD5B01STP Z,ZK 6 BD5B02FY1 Physics 1 C,ZK 7 BD5B02FY1 Physics 1 C,ZK 7 BD5B02FY1 Physics 1 C,ZK 7 The basic course of physics at the Faculty of Electrical Engineering - Physics 1 colspan="2">C,ZK 7 BD5B02FY1 Physics 1 colspan="2">C,ZK 7 Colspan="2">Colspan="2">C,ZK 7 Colspan="2"	BD5B01DRN	Differencial Equations and Numerical Analysis	Z,ZK	6
BD5B01LAG Linear Ålgebra Z,ZK 8 BD5B01MA1 Mathematical Analysis 1 Z,ZK 8 BD5B01MA2 The aim of the course is to introduce students to basics of differential and integral calculus of functions of one variable. 8 BD5B01STP Statistics and Probability Z,ZK 8 BD5B02FY1 Statistics and Probability and mathematical statistics, and show them the computing methods together with their applications of praxis. 8 BD5B02FY1 Physics 1 Physics 1 Z,ZK 7 The basic course of physics at the Faculty of Electrical Engineering - Physics 1, is devoted to the introduction into two important areas of physics. The first one is a classical mechanics and magnetic field. Within the framework of the classical mechanics, the students students students so an use the facts galend in this course in the study of electrical circuits, theory of electrotechical and magnetic field - both students atomary as well as non-stationary. The students can use the facts galend in this course in the study of electrical circuits, theory of electrotechical materials or radioelectrotechics. Apart of this, the knowledge galend in this course is required for the study of the course Physics 1. Within the framework of this course the students to understand that the presented description of the waves character. Particular types of waves and will help to the students basic insight into the properties of waves and will help to the students on Quertary and the scheer of the waves character. Particular types of waves and will help to the students basic ins	This course introdu	ces students to the classical theory of ordinary differential equations (separable and linear ODEs) and also to bsics of numerical meth	ods (errors in calc	ulations and
BD5B01MA1 Mathematical Analysis 1 Z,ZK 8 BD5B01MA2 E.Z.K 8 BD5B01MA2 Z,ZK 8 BD5B01STP Statistics and Probability Z,ZK 6 The aim is to introduce the students to the theory of probability and mathematical statistics, and show them the computing methods together with their applications of praxis. 7 The basic course of physics at the Faculty of Electrical Engineering - Physics 1, is devoted to the introduction into two important areas of physics. The first one is a classical mechanics and the second one is the electric and magnetic field. Within the framework of the classical mechanics is followed by the relativistic mechanics, electric and magnetic field - both stationary as well as non-stationary. The students can use the facts gained in this course in the study of electrical circuits, theory of electrotechnical materials or radioelectronics. Apart of this, the knowledge gained in this course is required for the study of the course Physics 2. 7 BD5B02FY2 Physics 2 Z,ZK 7 The course Physics 2 is closely linked with the course Physics 1. Within the framework of this course Physics 2. Z,ZK 7 BD5B02FY2 Physics 2 Z,ZK 7 The course Physics 2 is closely linked with the course Physics 1. Within the framework of this course the students to understand the presented description of the waves shas a uninversal character in spite of the waves character.	stability, numerica	I solutions of algebraic and differential equations and their systems). The course takes advantage of the synnergy between theoretic	al and practical poi	int of view.
BD5B01MA2 Z,ZK 8 BD5B01MA2 Z,ZK 6 BD5B01STP Statistics and Probability Z,ZK 6 BD5B01STP Physics 1 Z,ZK 6 The aim is to introduce the students to the theory of probability and mathematical statistics, and show them the computing methods together with their applications of praxis. BD5B01STP Z,ZK 7 The basic course of physics at the Faculty of Electrical Engineering -Physics 1. is deviced to the introduction into two important areas of physics. The first one is a classical mechanical systems, which they can meet during their further studies. The classical mechanics is tollowed by the relativities mechanics, electric and magnetic field. Within the framework of the classical mechanical systems, which they can meet during their further studies. The classical mechanics is tollowed by the relativities mechanics, electric and magnetic field - both stationary as well as non-stationary. The students can use the facts gained in this course in the study of electrical circuits, theory of electrotechnical materials or radiolectronics. Apart of this, the knowledge gained in this course is required for the study of the course Physics 2 is closely linked with the course Physics 1. Within the framework of this course the students will first of all learn foundations of thermodynamics. Following topic - the theory of waves - will give to the student? general education in physics. The knowledge gained in this course will help to the students in study of such modern areas as robotics, computer vision, measuring technique and will help to the students will first of all learn foundations of thermagnetic field.	BD5B01LAG	Linear Algebra	Z,ZK	8
BD5B01MA2 Z,ZK 8 BD5B01STP Statistics and Probability Z,ZK 6 The aim is to introduce the students to the theory of probability and mathematical statistics, and show them the computing methods together with their applications of praxis. BD5B02FY1 Z,ZK 7 The basic course of physics at the Faculty of Electrical Engineering - Physics 1, is devoted to the introduction into two important areas of physics. The first one is a classical mechanics and the second one is the electric and magnetic field. Within the first memovrk of the classical mechanics, the students study the particles and rigit bodies. The students should be able to solve basic problems dealing with the description of mechanical systems, which they can meet during their further studies. The students should be able to solve basic problems dealing with the description of mechanical systems, which they can meet during their further studies. The students can use the facts gained in this course in the study of electrical circuits, theory of electrotechnical materials or radioelectronics. Apart of this, the knowledge gained in this course is required for the study of the course Physics 2 is closely linked with the course Physics 1. Within the firamework of this course the students to understand that the presented description of the waves has a universal character in spite of the waves character. Particular types of waves, such as acoustic or optical waves are will help to the students to understand the the presented description of the waves has a universal character in spite of the wave character. Particular types of waves, such as acoustic or optical waves are the sludents in study of such mechanics and muclear physics and mucleaning of the waves has a universal character in spite of the waves ch	BD5B01MA1	Mathematical Analysis 1	Z,ZK	8
BD5B01STP Statistics and Probability Z,ZK 6 The aim is to introduce the students to the theory of probability and mathematical statistics, and show them the computing methods together with their applications of praxis. BD5B02FY1 Z,ZK 7 The basic course of physics at the Faculty of Electrical Engineering - Physics 1, is devoted to the introduction into two important areas of physics. The first one is a classical mechanics, and the second one is the electric and magnetic field. Within the framework of the classical mechanics, the students study the particle kinematics, dynamics of the mass particle, system of mass particles and rigid bodies. The students should be able to solve basic problems dealing with the description of mechanical systems, which they can meet during their further studies. The classical mechanics, electric and magnetic field - both stationary as well as non-stationary. The students can use the facts gained in this course in the study of electrical circuits, theory of electrotechnical materials or radioelectronics. Apart of this, the knowledge gained in this course is required for the study of the course Physics 2 is closely linked with the course Physics 1. Within the framework of this course the students will first of all learn foundations of thermodynamics. Following topic - the theory of waves - will give to the students basic insight into the properties of waves and will help to the students in study of such modern areas as robotics, computer vision, measuring technique and will allow them to understand the principes of novel technologies and functioning of new electronic devices. BD5B13WVE Materials for Power Electrical Engineering Z,ZK 4 At first a physical description of b		The aim of the course is to introduce students to basics of differential and integral calculus of functions of one variable.		
The aim is to introduce the students to the theory of probability and mathematical statistics, and show them the computing methods together with their applications of praxis. BD5B02FY1 Physics 1 Physics 1 Z,ZK 7 The basic course of physics at the Faculty of Electrical Engineering - Physics 1, is devoted to the introduction into two important areas of physics. The first one is a classical mechanics and the second one is the electric and magnetic field builts. The dassical mechanics is followed by the relativistic mechanics, electric and magnetic field - both stationary as well as non-stationary. The students should be able to solve basic problems dealing with the description of mechanical systems, which they can meet during their further use the facts gained in this course in the study of electrical circuits, theory of electrotechnical materials or radioelectronics. Apart of this, the knowledge gained in this course is required for the study of the course Physics 2 is closely linked with the course Physics 1. Within the framework of this course the students will first of all learn foundations of thermodynamics. Following topic - the theory of waves - will give to the students bacic insight into the properties of waves, such as acoustic or optical waves are the subjects of the following section. Quantum mechanics and unclear physics will complete the student? general education in physics. The knowledge gained in this course will help to the students in study of such moethanics and suniversity and sectiption of basic types of maxes, such as acoustic oropical waves are functioning of new electronic devices. BD5B13WVE Materials for Power Electrical Engineering is carried out. Types of conductors, superconductors, mulators, magnetic materials or electrical engineering, with properties of mica, glass and their app	BD5B01MA2		Z,ZK	8
BD5B02FY1 Z,ZK 7 The basic course of physics at the Faculty of Electrical Engineering - Physics 1, is devoted to the introduction into two important areas of physics. The first one is a classical mechanics and the second one is the electric and magnetic field. Within the framework of the classical mechanics, the students study the particle kinematics; dynamics of the mass particle, system of mass particles and rigid bodies. The students should be able to solve basic problems dealing with the description of mechanical systems, which they can meet during their further studies. The classical mechanics is followed by the relativistic mechanics, electric and magnetic field - both stationary as well as non-stationary. The students can use the facts gained in this course in the study of electrical circuits, theory of electrotechnical materials or radioelectronics. Apart of this, the knowledge gained in this course is required for the study of the consecutive course Physics 2. BD5B02FY2 Physics 2 Z,ZK 7 The course Physics 2 is closely linked with the course Physics 1. Within the framework of this course the students will first of all learn foundations of thermodynamics. Following topic - the theory of waves - will give to the students basic insight into the properties of waves and will help to the students in study of such modern areas as robotics, computer vision, measuring technique and will allow them to understand the principles of novel technologies and functioning on ew electronic devices. BD5B13WEI Materials for Power Electrical Engineering Z,ZK 4 At first a physical description of basic properties of materials for electrical engineering with expericlenologies for mechanical join	BD5B01STP	Statistics and Probability	Z,ZK	6
The basic course of physics at the Faculty of Electrical Engineering - Physics 1, is devoted to the introduction into two important areas of physics. The first one is a classical mechanics and the second one is the electric and magnetic field. Within the framework of the classical mechanics, the students study the particle kinematics; dynamics of the mass particle, system of mass particles and rigid bodies. The students should be able to solve basic problems dealing with the description of mechanical systems, which they can meet during their further studies. The classical mechanics is followed by the relativistic mechanics, electric and magnetic field - both stationary as well as non-stationary. The students can use the facts gained in this course in the study of electrical circuits, theory of electrotechnical materials or radioelectronics. Apart of this, the knowledge gained in this course is required for the study of the classical mechanics at physics 2 is closely linked with the course Physics 1. Within the framework of this course the students to understand that the presented description of the waves has a universal character in spite of the waves character. Particular types of waves, such as acoustic or optical waves are the subjects of the following section. Quantum mechanics and nuclear physics description of basic properties and basic types of materials for Power Electrical Engineering is carried out. Types of conductors, superconductors, mechanics, magnetic materials and their applications, with are used in power electrical engineering, as and their applications, with are used in power electrical engineering as and their applications, with environmental conductors joint and with selected nanomaterials and their applications. BD5B13MVE Minit the classical mechanics and thick films and with selected nanomaterials and their applications, super conductors, super of used in power bestrical engineering as the chonologies is put on relationships between properties, technology and using, The student will meet,	The aim is to ir	troduce the students to the theory of probability and mathematical statistics, and show them the computing methods together with the	heir applications of	praxis.
and the second one is the electric and magnetic field. Within the framework of the classical mechanics, the students study the particle kinematics; dynamics of the mass particle, system of mass particles and rigid bodies. The students should be able to solve basic problems dealing with the description of mechanical systems, which they can meet during their further studies. The classical mechanics is followed by the relativistic mechanics, electric and magnetic field - both stationary as well as non-stationary. The students can use the facts gained in this course in the study of electrical circuits, theory of electrotechnical materials or radioelectronics. Apart of this, the knowledge gained in this course is required for the study of Physics 2 and Physics 2 is closely linked with the course Physics 1. Within the framework of this course the students will first of all learn foundations of thermodynamics. Following topic - the theory of waves - will give to the students basic insight into the properties of waves and will help to the students to understand that the presented description of the waves has a universal character in spite of the waves character. Particular types of waves, such as acoustic or optical waves are the subjects of the following section. Quantum mechanics and nuclear physics dilcomplete the student's general education in physics. The knowledge gained in this course will help to the students, superconductors, insulators, magnetic materials for Power Electrical Engineering 2. Z/K 4 A first a physical description of basic properties and basic types of materials for electrical engineering, are presented. The stress is put on relationships between properties, technology and using. The student will neet, in higher detail, with ceramics for electrical engineering, are presented. The stress is put on relations, with environmental conductors including owing dwings, drying and thick films and with selected nanomaterials and their applications. Will envinonmental conductors including ower integration. B	BD5B02FY1	Physics 1	Z,ZK	7
of mass particles and rigid bodies. The students should be able to solve basic problems dealing with the description of mechanical systems, which they can meet during their further studies. The classical mechanics is followed by the relativistic mechanica, electric and magnetic field - both stationary as well as non-stationary. The students can use the facts gained in this course in the study of electrical circuits, theory of electrotechnical materials or radioelectronics. Apart of this, the knowledge gained in this course is required for the study of the consecutive course Physics 2. BD5B02FY2 Physics 2 Z,ZK 7 The course Physics 2 is closely linked with the course Physics 1. Within the framework of this course the students will first of all learn foundations of thermodynamics. Following topic the theory of waves - will give to the students basic insight into the properties of waves and will help to the students to understand that the presented description of the waves has a universal character in spite of the waves character. Particular types of waves, such as acoustic or optical waves are the subjects of the following section. Quantum mechanics and nuclear physics will complete the student?s general education in physics. The knowledge gained in this course will help to the students in study of such modern areas as robotics, computer vision, measuring technique and will allow them to understand the principles of novel technologies and functioning of new electronic devices. ED5B13MVE Z,ZK 4 BD5B13MVE Materials for Power Electrical Engineering Z,ZK 4 At first a physical description of basic properties and basic types of materials or electrical engineering, are presented. The stress is put on relationships between properties, technolog	The basic course of	physics at the Faculty of Electrical Engineering - Physics 1, is devoted to the introduction into two important areas of physics. The first	st one is a classica	l mechanics
studies. The classical mechanics is followed by the relativistic mechanics, electric and magnetic field - both stationary as well as non-stationary. The students can use the facts gained in this course in the study of electrical circuits, theory of electrotechnical materials or radioelectronics. Apart of this, the knowledge gained in this course is required for the study of the consecutive course Physics 2. BD5B02FY2 Z,ZK 7 The course Physics 2 is closely linked with the course Physics 1. Within the framework of this course the students will first of all learn foundations of thermodynamics. Following topic - the theory of waves - will give to the students basic insight into the properties of waves and will help to the students to understand that the presented description of the waves has a universal character in spite of the waves character. Particular types of waves, such as acoustic or optical waves are the subjects of the following section. Quantum mechanics and nuclear physics will complete the student?s general education in physics. The knowledge gained in this course will help to the students in study of such modern areas as robotics, computer vision, measuring technique and will allow them to understand the principles of novel technologies and functioning of new electronic devices. BD5B13MVE Materials for Power Electrical Engineering Z,ZK 4 At first a physical description of basic properties and basic types of materials or electrical engineering, are presented. The stress is put on relationships between properties, technology and using. The student will meet, in higher detail, with ceramics for electrical engineering, with properties of materials and their applications, with environmental conductive joining, with materials or thin and with selected nanomaterials and their applications. <td>and the second one</td> <td>is the electric and magnetic field. Within the framework of the classical mechanics, the students study the particle kinematics; dynami</td> <td>cs of the mass part</td> <td>icle, system</td>	and the second one	is the electric and magnetic field. Within the framework of the classical mechanics, the students study the particle kinematics; dynami	cs of the mass part	icle, system
in this course in the study of electrical circuits, theory of electrotechnical materials or radioelectronics. Apart of this, the knowledge gained in this course is required for the study of the consecutive course Physics 2. BD5B02FY2 C,ZK 7 The course Physics 2 is closely linked with the course Physics 1. Within the framework of this course will first of all learn foundations of thermodynamics. Following topic - the theory of waves - will give to the students basic insight into the properties of waves and will help to the students to understand that the presented description of the waves has a universal character in spite of the waves character. Particular types of waves, such as acoustic or optical waves are the subjects of the following section. Quantum mechanics and nuclear physics measuring technique and will allow them to understand the principles of novel technologies and functioning of new electronic devices. Z,ZK 4 BD5B13MVE Materials for Power Electrical Engineering Z,ZK 4 At first a physical description of basic properties and basic types of mice, glass and their applications, with environmental conductors, insulators, magnetic materials and semiconductors, which are used in power electrical engineering, are presented. The stress is put on relationships between properties, technology and using. The student will meet, in higher detail, with ceramics for electrical engineering, are presented and their applications. 4 BD5B13VST Power components and technology Z,ZK 4 Production systems in electrical engineering will be course will be focused on basic technologies will also been presented. Next part of a course will be focused on basic technologie			•	
consecutive course Physics 2. BD5B02FY2 Physics 2 Z,ZK 7 The course Physics 2 is closely linked with the course Physics 1. Within the framework of this course the students will first of all learn foundations of thermodynamics. Following topic - the theory of waves - will give to the students basic insight into the properties of waves and will help to the students to understand that the presented description of the waves has a universal character in splite of the waves character. Particular types of waves, such as acoustic or optical waves are the subjects of the following section. Quantum mechanics and nuclear physics will complete the student?s general education in physics. The knowledge gained in this course will help to the students in study of such modern areas as robotics, computer vision, measuring technique and will allow them to understand the principles of novel technologies and functioning of new electronic devices. BD5B13MVE Materials for Power Electrical Engineering Z,ZK 4 At first a physical description of basic properties and basic types of materials for electrical engineering, are presented. The stress is put on relationships between properties, technology and using. The student will meet, in higher detail, with ceramics for electrical engineering, are presented. The stress is put on relationships between properties. Z,ZK 4 BD5B13VST Power components and technology Z,ZK 4 Production systems in electrical engineering will be characterized, their arrangement and basic technologies for mechanical joints and plastic parts. Manufacturing of windings,drying and impregnation processes				•
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		0	art of the subject is	s devoted to
converters including diagnostics, reliable operation. Last part of lectures deals with layouts of manufactirung, lean management and planning of manufacturing.	transformers and	rotating machines, namely their magnetic circuits and windings. Second half of the subject is dedicated to manufacturing of power s	emiconductive dev	ices and
	converte	ers including diagnostics, reliable operation. Last part of lectures deals with layouts of manufactirung, lean management and planning	g of manufacturing	

BD5B14ZEL	Fundamentals of Electrotechnical Engineering	KZ	4
	cessary knowledge of creating technical documentation, including oral and written presentation of technical information. The se		
focused on explaining	and practicing the basic parts of electrical engineering, so that the students' initial knowledge is increased to the level needed i	in the following se	emesters.
BD5B14ZPO	Fundametals of Electric Drives	Z,ZK	4
	e basic building blocks of the electric drive. The designof components, electrical drives, typical load characteristics. Further are		
structures for drives with	h DC and AC motors and components required for their implementation as the structure of a control computer circuits to switch f	from analog signa	als to digital
	and implementation regulators themselves in digital form.		
BD5B14ZSP	Electric Machines and Apparatuses Basics	Z,ZK	4
The course explains the p	principles of machines for convertsion of mechanical energy to electrical and back. It discusses the principles of basic functions	and properties of	rotating and
non-rotating electric ma	chines. Following the behavior of electrical machines are discussed basic devices for protection and switching, including behavior	oral and switchin	g problems.
BD5B14ZVE	Power Electronics	Z,ZK	4
The course focuses on	the basic types of power semiconductor converters, which are used to change the parameters of electricity. Students are introductor	uced to the basic	principles,
	properties and applications of power electronic converters, their advantages, disadvantages, and fuse sizing.		
BD5B15EN1	Power Engineering 1	Z,ZK	4
BD5B15EN2	Power Engineering 2	Z,ZK	4
BD5B15EN3	Power Engineering 3	KZ	4
BD5B16MME	Macro and Microekonomics	Z,ZK	4
BD5B16MPS	Psychology	<u>Z,Z</u>	4
	ہے y, psychology of work and organization. Psychology in human resources management. The manager, his role and competencies	—	· ·
	munication and conflict resolution. Work group and team, conducting meetings. Time management and delegation. Dealing with s		
det biopriorit. Oom	culture and organizational change.		.s. company
BD5B16ZFM	Basics of Financial Management	Z,ZK	4
BD5B1021 M BD5B17ELD		KZ	4
	Electrodynamics This subject empowers its students with a unified approach to time-varying electromagnetic fields and waves.	Γ\ <u>∠</u>	4
BD5B17EMP	Electromagnetic Field	Z,ZK	5
	5	Z,ZR	5
	This course gets its students acquinted with principles and applied electromagnetic field theory basics.	7 71/	
BD5B17TBK	Wireless Communication Technique	Z,ZK	4
	s belong to the fastest developing technical fields. Besides widely used mobile telephony systems, this field also includes many oth		
	Different types of radio modems are also built in the majority of electronic devices like PCs, tablets, notebooks, cameras, etc. Wi		
	ration of billions of wireless sensors is expected. The subject is common to all students of the Electronics and Communication stu		
-	spects of this technical branch. Obtained knowledge should enable the students to design, project, adjust or manufacture any wi		-
or its components. Beside	es wireless system analysis, the lectures include review of physical backgrounds, survey of the most important existing radio system		
	s, description of electromagnetic wave propagation and related antennas. Instructions concerning propagation also cover behavi		
environment or inside	buildings. Lectures concerning analysis of typical wireless systems also cover description of related radio-frequency, microwave	and mm-wave c	ircuits and
environment or inside components. Exercises ir	buildings. Lectures concerning analysis of typical wireless systems also cover description of related radio-frequency, microwave nclude practical calculations of wireless systems, computer analysis and synthesis of important structures and circuits, and related	and mm-wave c ed laboratory me	ircuits and asurements
environment or inside components. Exercises in BD5B31CZS	buildings. Lectures concerning analysis of typical wireless systems also cover description of related radio-frequency, microwave nclude practical calculations of wireless systems, computer analysis and synthesis of important structures and circuits, and relat Digital Signal Processing	and mm-wave c ed laboratory me Z,ZK	ircuits and asurements
environment or inside components. Exercises ir BD5B31CZS BD5B31EO1	buildings. Lectures concerning analysis of typical wireless systems also cover description of related radio-frequency, microwave nclude practical calculations of wireless systems, computer analysis and synthesis of important structures and circuits, and relat Digital Signal Processing Electronic Circuits 1	and mm-wave c ed laboratory me Z,ZK Z,ZK	ircuits and asurements 4 5
environment or inside components. Exercises in BD5B31CZS BD5B31EO1 BD5B31EO2	buildings. Lectures concerning analysis of typical wireless systems also cover description of related radio-frequency, microwave nclude practical calculations of wireless systems, computer analysis and synthesis of important structures and circuits, and relat Digital Signal Processing	and mm-wave c red laboratory me Z,ZK Z,ZK Z,ZK	ircuits and asurements 4 5 5
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environment or inside components. Exercises in BD5B31CZS BD5B31EO1 BD5B31EO2 BD5B32DAT The course introduces str	buildings. Lectures concerning analysis of typical wireless systems also cover description of related radio-frequency, microwave nclude practical calculations of wireless systems, computer analysis and synthesis of important structures and circuits, and relat Digital Signal Processing Electronic Circuits 1 Electronic Circuits 2 Data Networks udents with the fundamentals of data communication networks. The course objective is to provide broader understanding of vari data networks based on the layered OSI model. The course also provides students with fundamental understanding of TCP/IP processing and the system of the system o	and mm-wave c and laboratory me Z,ZK Z,ZK Z,ZK Z,ZK ious communicat	ircuits and asurements 4 5 5 4 ion protocols
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BD5B38EMA	Electrical Measurements	KZ	5						
BD5B99IN1	Individual project	Z	4						
BD5B99IN2	Individual project	Z	8						
BEZB	Safety in Electrical Engineering for a Bachelor's Degree	Z	0						
The purpose of the	safety course is to give the students basic knowledge of electrical equipment and installation as to avoid danger arising from operation	n of it. This introduc	ctory course						
contains funda	mentals of Safety Electrical Engineering. In this way the students receive qualification of instructed person that enables them to work	k on electrical equi	pment.						
BEZZ	Basic Health and Occupational Safety Regulations	Z	0						
The guidelines were	The guidelines were worked out based on The Training Scheme for Health and Occupational Safety designed for employees and students of the Czech Technical University in Prague,								
which was provided	which was provided by the Rector's Office of the CTU. Safety is considered one of the basic duties of all employees and students. The knowledge of Health and Occupational Safety								
	regulations forms an integral and permanent part of qualification requirements. This program is obligatory.								

For updated information see <u>http://bilakniha.cvut.cz/en/FF.html</u> Generated: day 2025-06-20, time 15:13.