Recomended pass through the study plan

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

Faculty/Institute/Others: Faculty of Electrical Engineering 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: Electrical Engineering, Electronics and Communications Type of study: Bachelor 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	Ρ
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 (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	Р
BD5B14ZEL	Fundamentals of Electrotechnical Engineering Ivana Nová Ivana Nová	КZ	4	14KP+6KC	Z	Р

Number of semes	ster: 2					
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 (Gar.)	KZ	4	14KP+6KL	. L	Ρ
BD5B02FY1	Physics 1 Jaroslav Plocek Jaroslav Plocek Jaroslav Plocek (Gar.)	Z,ZK	7	14KP+6KC	L	Р
BD5B16MPS	Psychology Josef ernohous, Alena Klesalová, Jaroslav Knápek Jaroslav Knápek Alena Klesalová (Gar.)	z	4	14KP+6KS	L	Р
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	Р
BD5B31EO2	Electronic Circuits 2 Ji í Náhlík Ji í Hospodka Ji í Hospodka (Gar.)	Z,ZK	5	14KP+6KC	Z	Р
BD5B02FY2	Physics 2 Jaroslav Plocek Jaroslav Plocek (Gar.)	Z,ZK	7	14KP+6KC	Z	Р
BD5B37PPC	C/C++ programming Stanislav Vítek Stanislav Vítek (Gar.)	KZ	4	14KP+6KC	Z	Р
		Min. cours.				
	Povinn volitelné p edm tv	9	Min/Max			5)/
2024_BEEKPV-K	BD5B37AVT,BD5B31CZS, (see the list of groups below)	Max. cours.	36/72			PV
		18				

Number of semes	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	Р
BD5B34MIK	Microcontrollers Tomáš Teplý, Vladimír Janí ek Tomáš Teplý Tomáš Teplý (Gar.)	Z,ZK	4	14KP+6KL	. L	Р
BD5B01STP	Statistics and Probability Kate ina Helisová Kate ina Helisová Kate ina Helisová (Gar.)	Z,ZK	6	14KP+6KC	L	Р
2024_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
2024_BEEKVOL-K	Volitelné p edm ty	Min. cours. 0	Min/Max 0/999			V

Number of semes	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.)		Credits	Scope	Semester	Role
BD5B99IN2	Individual project Lubor Jirásek, Vladimír Janí ek	Z	8	0+8s	Z	Ρ
2024_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
2024_BEEKVOL-K	Volitelné p edm ty	Min. cours. 0	Min/Max 0/999			V

Number of semes	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	Р
BD5B16ZFM	Basics of Financial Management Blanka Ku erková, Old ich Starý Old ich Starý Old ich Starý (Gar.)	Z,ZK	4	14KP+6KS	L	Р
2024_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 courses and codes of members of this group (for specification see here or below the list of courses)			Com	pletion	Credit	s Scope	Semester	Role
2024_BEE	KPV-K	Povir	nn volitelné	p edm ty	Min. Max.	cours. 9 cours. 18	Min/Ma 36/72	ax		PV
BD5B37AVT	Audiovisua	al Technology	BD5B31CZS	Digital Signal Processing		BD5B320	DAT	Data Networks		
BD5B32DIT	Digital Tecl	hnique	BD5B17ELD	Electrodynamics		BD5B15E	EN1	Power Engine	ering 1	
BD5B15EN2	Power Eng	ineering 2	BD5B15EN3	Power Engineering 3		BD5B13	MVE	Materials for F	ower Electrica	I E
BD5B34MIT	Microelect	ronics	BD5B34SEE	Senzors in Electronics and Elect	BD5B37SAS Signals and systems		/stems			
BD5B17TBK	Wireless C	Communication Technique	BD5B13VST	Power components and technology	/	BD5B13	/VZ	Manufacturing	of Power Devi	ces
BD5B14ZPO	Fundameta	als of Electric Drives	BD5B14ZSP	Electric Machines and Apparatuse		BD5B142	ZVE	Power Electronics		
2024_BEE	(VOL-K		Volitelné p ed	m ty	Min.	cours. 0	Min/Ma 0/999	ax		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					
BD5B01DRN Differencial Equations and Numerical Analysis Z,ZK 6 This course introduces students to the classical theory of ordinary differential equations (separable and inear ODEs) and also to basis of numerical and practical point of view. BD5B01LAG Z,ZK 8 BD5B01LAG Linear Algebra Z,ZK 8 BD5B01MA1 Mathematical Analysis 1 Z,ZK 8 BD5B01MA2 Z,ZK 8 BD5B01STP Statistics and Probability Z,ZK 7 The aaim is to introduce the students to the theory of probability and mathematical statistics, and show them the computing methods together with their applications of pravis. BD5B012 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, setem-stude setem of mass particles. Schamematical systems, which the can meet during their further studes. The students should be able to sole basic problem dealing with the description of mechanical systems. Which the can meet during their fur	BBAP20	Bachelor thesis	Z	20					
This course introduces students to the classical theory of ordinary differential equations (separable and linear ODE); and also to bisics of numerical methods (errors in calculations and their systems). The course takes advantage of the synnergy between theoretical and practical point of view. BD5B01LAG Linear Algebra Z,ZK 8 BD5B01LAG Z,ZK 8 BD5B01MA2 Z,ZK 8 BD5B01STP Statistics and Probability Z,ZK 6 The aim of the course 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 Stavents to the classical mechanics, decritical engineering - Physics 1, is devoted to the introduction into two important areas of physics. The first one is a classical mechanics decritical engineering - Physics 1, is devoted to the introductins, the students shytems can use the fact dag and and the properties of and magnetic field - obst stationary are well as on-stationary. The students can use the fact dag and and the source are physics. The first one is a classical mechanics, decritical engineering - Physics 2 The course Physics 2 is closely linked with the course Physics 1. Within the framework of the isource and magnetic field - obst stationary are well as on-stat	BD5B01DRN	Differencial Equations and Numerical Analysis	Z,ZK	6					
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. BD5801LAG C,ZK 8 BD5801MA1 Mathematical Analysis 1 Z,ZK 8 BD5801MA2 Z,ZK 8 BD5801MA2 Z,ZK 8 BD5801TP 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. BD5802FY1 Z,ZK 7 The basic course of physics at the Faculty of Electrical Engineering - Physics 1 Y,ZK 7 7 The basic course of physics. The students should be able to solve basic problems dealing with the description of mechanical system meet during their further studies. The electrical and magnetic field - both stationary as well as non-stationary. The students can use the facts gained in this course in the study of the curse is neguring for the study of the curse is neguring for the subsystes 1. Within the framework of this course in 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 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 basic orbotem cance as topics. The st	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					
BD5B01LAG Linear Algebra Z,ZK 8 BD5B01MA1 Mathematical Analysis 1 Z,ZK 8 BD5B01MA2 Z,ZK 8 BD5B01MA2 Z,ZK 8 BD5B01STP Statistics and Probability Z,ZK 8 BD5B01STP 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, the students shuld be able to solve basic problems dealing with the deceptription of mechanical systems, which they can meet during their further studes. The classical mechanics or adventice and magnetic field - both stationary as well as non-students canders, and the second one is the electric and magnetic field - both stationary as well as non-students canders, and the second well were shall were shall be able to solve basic problems dealing with the docurse physics 2. 7 BD5B02FY2 Physics 2 Z,ZK 7 The course Physics 2 is dosely 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 testrod were were as an universal character is splite of the waves has a crucitical engineering + Physics 2 Z,ZK 7	stability, numerica	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.							
BD5B01MA1 Mathematical Analysis 1 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 BD5B01STP Statistics and Probability and the course 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. 8 BD5B02FV1 Physics 1 2,ZK 7 The basic course of physics at the Faculty of Electrical Engineering - Physics 1, is devolde 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 students 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 universal character in spite of the waves character. Particular types of waves, such as acoustic or optical waves are the subjects of conductors, super conductors, supereconductors, instand or supresis and their applications	BD5B01LAG	Linear Algebra	Z,ZK	8					
BD5B01MA2 Z,ZK 8 BD5B01MA2 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 BD5B01FN Z,ZK 7 The basic course of physics at the Faculty of Electrical Engineering. Physics 1, is devoled to the introduction into two important areas of physics. The students should be able to solve basic problems dealing with the description of mechanical systems, which they can meet during their furthers truthers. The students is followed by the relativistic reachanics, and the second one is the electric al magnetic field. Within the framework of the classical mechanics, Apart of this, the knowledge gained in this course is required for the study of 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 1. Within the framework of this course the students to understand that the presented description of the twaves has a universal character. Paricular types of waves, such as accoustic or optical waves are the subjects of the following section. Quantum mechanics and nuclear physics will complete the students basic insight into the properties of waves and will help to the students to understand that the presented description of the waves charas in publications, with environmental conductors, involators, magnetic devices. Computer vision, measuring technique and will allow them to understand the principles of onovel technologies and func	BD5B01MA1	Mathematical Analysis 1	Z,ZK	8					
BD5B01MA2 Z,ZK 8 BD5B01STP C,ZK 60 BD5B01STP C,ZK 60 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 BD5B02FY1 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, sthe students study the particle kinematics; dynamics of the mass particle, system of mass particle kinematics; double able to solve basic problems dealing with the description of mechanical systems, which they can meet during their further studies. The classical mechanics, electrica di angenetic field. Within the framework of the classical mechanics, and the second 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 varey shas a universal character in spite of the students basic insight into the properties of waves and will help to the students on 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 mechanics and nuclear physical description of basic properties and basic types of materials for electrical Engineering are presented. The stress is put on reliationship section. Countum mechanics and their applications, when write means the vare presented description of the varees has a universal character in spite of the students of the classcharadter. Particulara t		The aim of the course is to introduce students to basics of differential and integral calculus of functions of one variable.							
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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. BDSB02FY1 Physics 1 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 is required for the study 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 instudy 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. BDSB13MVE Materials for Power Electrical Engineering is carried out. Types of conductors, superconductors, insultance, magnetic and their applications. At first a physical description of basic properties and basic types of materials for	BD5B01STP	Statistics and Probability	Z,ZK	6					
BD5B02FY1 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. 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. Youth stationary as well as non-stationary. The students can use the facts gained in this course is required for the study of the consecutive course Physics 2. BD5B02FY2 Physics 2 Z,ZK 7 The course Physics 1 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 means as arobics, computer vision, measuring technique and will allow them to understand the principles of novel technologies and functioning of new electronic devices. EBD5B13MVE Materials for Power Electrical Engineering Z,ZK 4 At first a physical description of basic properties and basic types of materials and their applications. Electrical engineering, are presented. The stress is put on relationships between properties, technology and using. The student will meet, in higher detail,	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.					
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 electrochocial 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 as acoustic or optical waves are the subjects of the following section. Quantum mechanics and nuclear physics will complete 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 allow them to understand the principles of novel technologies and functioning of new electronic devices. BD5B13MVE Materials for Power Electrical Engineering is carried out. Types of conductors, superconductors, 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 first of a course will also been presented. Nearting and this feleted this and phications. Sun	BD5B02FY1	Physics 1	Z,ZK	7					
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. 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 DPhysics 2 Sclosely 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 description of basic properties of materials for Power Electrical Engineering 2, Z/K 4 Af first a physical description of basic properties and basic types of materials for electrical engineering is carried out. Types of conductors, superconductors, 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. 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 s	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					
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 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 students basic insight into the properties of waves and will help to the students 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 of new 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, technology and using. The student will meet, in higher detail, with ceramics for electrical engineering, are presented and their applications. The shale toping of modern size and their applications, with environmental conductive joining, with materials for through and with selected nanomaterials and their applications. The student will meet, higher detail, with ceramics for electrical engineering with properties of mice, alsas and their applications, with environmental conductive joining, with materials for throughy and their applications, the	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					
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 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 universal character in spite of the waves character. Particular types of waves, such as acoustic or optical waves are 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 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 ellow the detail, with ceramics for electrical engineering, are presented. The stress is put on relationships between properties, technology of windings, drying and impregnation processes will also been presented. Next part of a course will be focused on basic technologies for mechanical joints and plastic parts. Manufacturing of windings, drying and impregnation processes will also been presented. Next part of a course w	of mass particles a	ind rigid bodies. The students should be able to solve basic problems dealing with the description of mechanical systems, which they	can meet during t	heir further					
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	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
The course extend	ds necessary knowledge of creating technical documentation, including oral and written presentation of technical information. The se	cond half of the se	emester is
focused on expla	aining and practicing the basic parts of electrical engineering, so that the students' initial knowledge is increased to the level needed	in the following se	mesters.
BD5B14ZPO	Fundametals of Electric Drives	Z,ZK	4
The course expla	ins the basic building blocks of the electric drive. The designof components, electrical drives, typical load characteristics. Further are	discussed the bas	sic control
structures for drive	s with DC and AC motors and components required for their implementation as the structure of a control computer circuits to switch	from analog signa	ls to digital
	and implementation regulators themselves in digital form.	7 71/	
BD5B14ZSP	Electric Machines and Apparatuses Basics	Z,ZK	4
The course explains	s the principles of machines for convertsion of mechanical energy to electrical and back. It discusses the principles of basic functions	and properties of	rotating and
	c machines. Following the behavior of electrical machines are discussed basic devices for protection and switching, including behavior		problems.
	POWER Electronics	Z,ZR	4 principles
	son the basic types of power semiconductor converters, which are used to change the parameters of electricity. Students are introc	luced to the basic	principies,
BD5B15EN1		7 7K	1
	Power Engineering 1	Z,ZR	4
	Power Engineering 2		4
BD5B15EN3	Power Engineering 3	KZ	4
BD5B16MME	Macro and Microekonomics	Z,ZK	4
BD5B16MPS	Psychology	Z	4
Psychology of perso	onality, psychology of work and organization. Psychology in human resources management. The manager, his role and competencies	s. Motivation and e	ngagement.
Skills development.	Communication and conflict resolution, work group and team, conducting meetings. Time management and delegation, Dealing with s	stress and emotion	s. Company
	Poolog of Financial Management	7 71	4
			4
	Electroaynamics	KΖ	4
	This subject empowers its students with a unined approach to time-varying electromagnetic fields and waves.	7 71/	_
	Electromagnetic Field	Z,ZK	5
	This course gets its students acquinted with principles and applied electromagnetic field freery basics.	7 71/	4
BD5B171BK	WIREIESS COMMUNICATION TECHNIQUE	Z,ZK	4 d stationary
communicating syst	ations belong to the lastest developing technical fields. Besides widely used mobile telephony systems, this field also includes many of	lith expected fact d	
of Internet of Things	erns. Direction of hillions of wireless sensors is expected. The subject is common to all students of the Electronics and Communication st	udv program its m	
is to teach all import	tant aspects of this technical branch. Obtained knowledge should enable the students to design, project, adjust or manufacture any w	ireless communica	ation system
or its components. B	lesides wireless system analysis, the lectures include review of physical backgrounds, survey of the most important existing radio system	ns together with co	rresponding
operational freque	encies, description of electromagnetic wave propagation and related antennas. Instructions concerning propagation also cover behav	ior of EM waves in	n an urban
environment or in	iside buildings. Lectures concerning analysis of typical wireless systems also cover description of related radio-frequency, microwave	e and mm-wave cir	cuits and
components. Exerci	ses include practical calculations of wireless systems, computer analysis and synthesis of important structures and circuits, and rela	ted laboratory mea	surements
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BD5B31CZS	Digital Signal Processing	Z,ZK	4
BD5B31CZS BD5B31EO1	Digital Signal Processing Electronic Circuits 1	Z,ZK Z,ZK	4 5
BD5B31CZS BD5B31EO1 BD5B31EO2	Digital Signal Processing Electronic Circuits 1 Electronic Circuits 2	Z,ZK Z,ZK Z,ZK	4 5 5
BD5B31CZS BD5B31EO1 BD5B31EO2 BD5B32DAT	Digital Signal Processing Electronic Circuits 1 Electronic Circuits 2 Data Networks	Z,ZK Z,ZK Z,ZK Z,ZK	4 5 5 4
BD5B31CZS BD5B31EO1 BD5B31EO2 BD5B32DAT The course introduc	Digital Signal Processing Electronic Circuits 1 Electronic Circuits 2 Data Networks ces students with the fundamentals of data communication networks. The course objective is to provide broader understanding of var	Z,ZK Z,ZK Z,ZK Z,ZK ious communicatio	4 5 5 4 on protocols
BD5B31CZS BD5B31EO1 BD5B31EO2 BD5B32DAT The course introduc used in specific typ	Digital Signal Processing Electronic Circuits 1 Electronic Circuits 2 Data Networks es students with the fundamentals of data communication networks. The course objective is to provide broader understanding of var es of data networks based on the layered OSI model. The course also provides students with fundamental understanding of TCP/IP	Z,ZK Z,ZK Z,ZK Z,ZK ious communicatio protocol family as	4 5 5 4 on protocols it is used in
BD5B31CZS BD5B31EO1 BD5B31EO2 BD5B32DAT The course introduc used in specific typ	Digital Signal Processing Electronic Circuits 1 Electronic Circuits 2 Data Networks ses students with the fundamentals of data communication networks. The course objective is to provide broader understanding of var es of data networks based on the layered OSI model. The course also provides students with fundamental understanding of TCP/IP the Internet era of networking, including practical experience with the data networks in laboratory.	Z,ZK Z,ZK Z,ZK Z,ZK ious communicatio protocol family as	4 5 5 4 on protocols it is used in
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BD5B38EMA	Electrical Measurements	KZ	5					
BD5B99IN1	3D5B99IN1 Individual project							
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 introdu	ctory course					
contains funda	amentals of Safety Electrical Engineering. In this way the students receive qualification of instructed person that enables them to work	on electrical equi	ipment.					
BEZZ	Basic Health and Occupational Safety Regulations	Z	0					
The guidelines wer	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 provide	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/f3.html</u> Generated: day 2025-08-20, time 10:46.