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	Р
BD5B01LAG	Linear Algebra	Z,ZK	8	28KP+6KC	Z	Р
BD5B16MME	Macro and Microekonomics	Z,ZK	4	14KP+6KS	Z	Р
BD5B01MA1	Mathematical Analysis 1	Z,ZK	8	28KP+6KC	Z	Р
BD5B36PRP	Procedural Programming Ivan Jelinek Ivan Jelinek Ivan Jelinek (Gar.)	Z,ZK	6	14KP+6KC	Z	Р
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	KZ	4	14KP+6KC	Z	Р

Number of semester: 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	Z,ZK	5	14KP+6KC	L	Р
BD5B34EPS	Electronics Lubor Jirásek	KZ	4	14KP+6KL	. L	Р
BD5B02FY1	Physics 1 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		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 Stanislav Vítek (Gar.)	KZ	4	14KP+6KC	Z	Р
		Min. cours.				
2040 DEEKDV/K	Povinn volitelné p edm ty BD5B37AVT,BD5B31CZS, (see the list of groups below)	9	Min/Max			5,7
2016_BEEKPV-K		Max. cours.	36/72			PV
		18				

Number of semester: 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 Vladimír Janí ek, Lubor Jirásek Lubor Jirásek	Z	4	0+4s	L	Р
BD5B34MIK	Microcontrollers Tomáš Teplý	Z,ZK	4	14KP+6KL	. L	Р
BD5B01STP	Statistics and Probability	Z,ZK	6	14KP+6KC	L	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.	Min/Max 0/999			V

Number of semester: 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 Vladimír Janí ek, Lubor Jirásek	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.	Min/Max 0/999			V

Number of semester: 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
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

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 specification	courses and on see here o	codes of members of this r below the list of courses)	Com	pletion	Credit	Scope	Semester	Role
2016_BEE	KPV-K	Povir	nn volitelné	p edm ty		cours. 9 . cours. 18	Min/Ma 36/72	7		PV
BD5B37AVT	Audiovisua	l Technology	BD5B31CZS	Digital Signal Processing		BD5B32I	DAT I	Data Networks		
BD5B32DIT	Digital Tecl	nnique	BD5B17ELD	Electrodynamics		BD5B15B	EN1 I	Power Engine	ering 1	
BD5B15EN2	Power Eng	ineering 2	BD5B15EN3	Power Engineering 3		BD5B13l	MVE I	Materials for F	Power Electrica	I E
BD5B34MIT	Microelecti	ronics	nics BD5B34SEE Senzors in Electronics and Elect BD5B37SAS Signa		Signals and sy	/stems				
BD5B17TBK	Wireless C	communication Technique	BD5B13VST	Power components and technology	/	BD5B13\	/VZ I	// Anufacturing	of Power Devi	ces
BD5B14ZPO	Fundameta	als of Electric Drives	BD5B14ZSP	Electric Machines and Apparatuse		BD5B142	ZVE I	Power Electronics		
2016_BEEH	KVOL-K	\	/olitelné p ed	m ty	Min.	cours.	Min/Ma 0/999			V

	List of courses of this pass:		
Code	Name of the course	Completion	Credits
BBAP20	Bachelor thesis	Z	20
BD5B01DRN	Differencial Equations and Numerical Analysis	Z,ZK	6
1	ces students to the classical theory of ordinary differential equations (separable and linear ODEs) and also to bsics of numerical meth-	•	-
	al solutions of algebraic and differential equations and their systems). The course takes advantage of the synnergy between theoretical	,	
BD5B01LAG	Linear Algebra	Z,ZK	8
BD5B01MA1	Mathematical Analysis 1	Z,ZK	8
=====================================	The aim of the course is to introduce students to basics of differential and integral calculus of functions of one variable.	_, `	
BD5B01MA2		Z,ZK	8
BD5B01STP	Statistics and Probability	Z,ZK	6
	ntroduce the students to the theory of probability and mathematical statistics, and show them the computing methods together with the	,	_
BD5B02FY1	Physics 1	Z,ZK	7
	f physics at the Faculty of Electrical Engineering - Physics 1, is devoted to the introduction into two important areas of physics. The firs	,	
	e is the electric and magnetic field. Within the framework of the classical mechanics, the students study the particle kinematics; dynamic		
	and rigid bodies. The students should be able to solve basic problems dealing with the description of mechanical systems, which they	•	
studies. The classic	cal mechanics is followed by the relativistic mechanics, electric and magnetic field - both stationary as well as non-stationary. The stud	lents can use the	facts gained
in this course in the	e 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 Physic	s 2 is closely linked with the course Physics 1. Within the framework of this course the students will first of all learn foundations of the	rmodynamics. Fol	lowing topic
- the theory of wav	es - will give to the students basic insight into the properties of waves and will help to the students to understand that the presented d	lescription of the v	waves has a
	er in spite of the waves character. Particular types of waves, such as acoustic or optical waves are the subjects of the following section		
	vill complete the student?s general education in physics. The knowledge gained in this course will help to the students in study of such		s robotics,
	nputer vision, measuring technique and will allow them to understand the principles of novel technologies and functioning of new elec		
BD5B13MVE	Materials for Power Electrical Engineering	Z,ZK	4
	l description of basic properties and basic types of materials for electrical engineering is carried out. Types of conductors, supercondu		•
	conductors, which are used in power electrical engineering, are presented. The stress is put on relationships between properties, tech	٠,	
will meet, in highe	or detail, with ceramics for electrical engineering, with properties of mica, glass and their applications, with environmental conductive j	oining, with mater	ials for thin
	and thick films and with selected nanomaterials and their applications.		1
BD5B13VST	Power components and technology	Z,ZK	4
-	s in electrical engineering will be characterized, their arrangement and basic technologies for mechanical joints and plastic parts. Man	-	
and impregnation p	processes will also been presented. Next part of a course will be focused on basic technologies for semiconductors including power in	tegration. Beam te	echnologies,
	technologies using plasma, packaging and basic assembly technologies will also been presented.		1
BD5B13VVZ	Manufacturing of Power Devices	Z,ZK	4
	oject is focused on manufacturing of power electrical machines and devices from construction and technological point of wiev. Main particular in the control of the control	•	
	d rotating machines, namely their magnetic circuits and windings. Second half of the subject is dedicated to manufacturing of power s		
	ers including diagnostics, reliable operation. Last part of lectures deals with layouts of manufactirung, lean management and planning		1
BD5B14ZEL	Fundamentals of Electrotechnical Engineering	KZ	4
	ids necessary knowledge of creating technical documentation, including oral and written presentation of technical information. The se		
rocused on expl	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 explains	s the basic building blocks of the electric drive. The designof components, electrical drives, typical load characteristics. Further are d	iscussed the bas	sic control
structures for drives	with DC and AC motors and components required for their implementation as the structure of a control computer circuits to switch fr and implementation regulators themselves in digital form.	om analog signa	lls to digital
BD5B14ZSP	Electric Machines and Apparatuses Basics	Z,ZK	4
	he principles of machines for convertsion of mechanical energy to electrical and back. It discusses the principles of basic functions a		rotating an
on-rotating electric	machines. Following the behavior of electrical machines are discussed basic devices for protection and switching, including behavio	ral and switching	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 introdu properties and applications of power electronic converters, their advantages, disadvantages, and fuse sizing.	ced to the basic	principles,
BD5B15EN1	Power Engineering 1	Z,ZK	4
BD5B15EN2	Power Engineering 2	Z,ZK	4
BD5B15EN3	Power Engineering 2	KZ	4
			-
BD5B16MME	Macro and Microekonomics	Z,ZK	4
BD5B16MPS	Psychology	Z Mationalian and a	4
	ality, psychology of work and organization. Psychology in human resources management. The manager, his role and competencies. ommunication and conflict resolution. Work group and team, conducting meetings. Time management and delegation. Dealing with str culture and organizational change.		
BD5B16ZFM		7 7V	1
	Basics of Financial Management	Z,ZK KZ	4
BD5B17ELD	Electrodynamics This subject empowers its students with a unified approach to time-varying electromagnetic fields and waves.		4
BD5B17EMP	Electromagnetic Field	Z,ZK	5
·	This course gets its students acquinted with principles and applied electromagnetic field theory basics.		
BD5B17TBK	Wireless Communication Technique	Z,ZK	4
	ons belong to the fastest developing technical fields. Besides widely used mobile telephony systems, this field also includes many other		
	ns. Different types of radio modems are also built in the majority of electronic devices like PCs, tablets, notebooks, cameras, etc. Wit		-
-	operation of billions of wireless sensors is expected. The subject is common to all students of the Electronics and Communication students of the Electronic students of the		
· · · · · · · · · · · · · · · · · · ·	nt aspects of this technical branch. Obtained knowledge should enable the students to design, project, adjust or manufacture any wire		-
•	sides wireless system analysis, the lectures include review of physical backgrounds, survey of the most important existing radio systems	_	-
	cies, description of electromagnetic wave propagation and related antennas. Instructions concerning propagation also cover behavio		
	de buildings. Lectures concerning analysis of typical wireless systems also cover description of related radio-frequency, microwave		
	es include practical calculations of wireless systems, computer analysis and synthesis of important structures and circuits, and relate		
BD5B31CZS	Digital Signal Processing	Z,ZK	4
55551020		_, `	
	Electronic Circuits 1	Z,ZK	5
BD5B31EO1	Electronic Circuits 1 Electronic Circuits 2		5 5
BD5B31EO1 BD5B31EO2		Z,ZK	
BD5B31EO1 BD5B31EO2 BD5B32DAT	Electronic Circuits 2	Z,ZK Z,ZK Z,ZK	5 4
BD5B31EO1 BD5B31EO2 BD5B32DAT he course introduces	Electronic Circuits 2 Data Networks	Z,ZK Z,ZK Z,ZK ous communication	5 4 on protoco
BD5B31EO1 BD5B31EO2 BD5B32DAT he course introduces	Electronic Circuits 2 Data Networks s students with the fundamentals of data communication networks. The course objective is to provide broader understanding of various controls.	Z,ZK Z,ZK Z,ZK ous communication	5 4 on protoco
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BEZB	Safety in Electrical Engineering for a Bachelor's Degree	Z	0						
The purpose of the	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 of it. This introductory cou								
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	pment.						
BEZZ	Basic Health and Occupational Safety Regulations	Z	0						
The guidelines wer	e worked out based on The Training Scheme for Health and Occupational Safety designed for employees and students of the Czech	echnical Universit	y 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 http://bilakniha.cvut.cz/en/FF.html Generated: day 2025-11-27, time 00:11.