Recomended pass through the study plan

Name of the pass: Electrical Engineering, Power Engineering and Management

Faculty/Institute/Others: Faculty of Electrical Engineering

Department:

Pass through the study plan: Electrical Engineering, Power Engineering and Management

Branch of study guranteed by the department: Common courses

Guarantor of the study branch:

Program of study: Electrical Engineering, Power Engineering and Management

Type of study: Bachelor full-time

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

	Name of the course / Name of the group of courses					
Code	(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
B0B01LAG	Linear Algebra Ji í Velebil, Jakub Rondoš, Natalie Žukovec, Daniel Gromada, Josef Dvo ák, Mat j Dostál Ji í Velebil Ji í Velebil (Gar.)	Z,ZK	8	4P+2S	Z	Р
B0B16MME	Macro and Microekonomics	Z,ZK	4	2P+2S	Z	Р
B0B01MA1	Mathematical Analysis 1 Josef Dvo ák, Martin K epela, Josef Tkadlec, Veronika Sobotíková Josef Tkadlec Josef Tkadlec (Gar.)	Z,ZK	7	4P+2S	Z,L	Р
B0B99PRP	Procedural Programming	Z,ZK	6	2P+2C	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
B1B14ZEL	Fundamentals of Electrotechnical Engineering	KZ	3	2P+2C	Z	Р
		Min. cours.				
2015_BEEMH	Humanitní p edm ty B0B16ET1,B0B16FIL, (see the list of groups below)	1	Min/Max			
		Max. cours.	4/28			Р
		9				

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
B0B01DRN	Differencial Equations and Numerical Analysis Jakub Rondoš, Daniel Gromada, Josef Dvo ák, Petr Habala, Jakub Stan k Petr Habala Petr Habala (Gar.)	Z,ZK	4	2P+2C	L	Р
B1B31EOS	Electric circuits Martin Pokorný, Michal Šimek Martin Pokorný Martin Pokorný (Gar.)	Z,ZK	6	3P+2S	Z	Р
B1B02FY1	Physics 1 Petr Koní ek Petr Koní ek (Gar.)	Z,ZK	8	4P+1L+2C	L	Р
B0B01MA2	Mathematical Analysis 2 Miroslav Korbelá , Petr Hájek, Martin Bohata, Jaroslav Tišer, Karel Pospíšil, Paola Vivi, Hana Tur inová Petr Hájek Jaroslav Tišer (Gar.)	Z,ZK	7	4P+2S	L,Z	Р
B1B15VYA	Computational Applications Jan Kyncl Jan Kyncl (Gar.)	KZ	4	2P+2C	L	Р

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 or	codes of members of this below the list of courses)	Com	pletion	Credit	Scope	Semester	Role
					Min.	cours.				
2015_BE	ЕМН	н	umanitní p ec	lm ty	Max.	1 cours.	Min/Ma 4/28	X		P
						9				
B0B16ET1	Ethic 1		B0B16FIL	Philosophy B0B16		B0B16FI	1 1	Philosophy 1		
B0B16HTE	History of t	echnology and econom	B0B16HT1	History of science and technolog		B0B16HI1 H		History 1		
B0B16MPS	Psycholog	у	B0B16MPL	Psychology for managers		A003TV	/ Physical Educ		ation	

List of courses of this pass:

Code	Name of the course	Completion	Credits	
A003TV	3TV Physical Education			
B0B01DRN	Differencial Equations and Numerical Analysis	Z,ZK	4	
	es students to the classical theory of ordinary differential equations (separable and linear ODEs) and also to bsics of numerical meth		ulations a	
stability, numerical	solutions of algebraic and differential equations and their systems). The course takes advantage of the synnergy between theoretical	al and practical po	int of view	
B0B01LAG	Linear Algebra	Z,ZK	8	
The course covers th	ne initial parts of linear algebra. Firstly, the basic notions of a linear space and linear mappings are covered (linear dependence and inde	'	coordinate	
etc). The calculus o	f matrices (determinants, inverse matrices, matrices of a linear map, eigenvalues and eigenvectors, diagonalisation, etc) is covered	next. The applicati	ons includ	
	solving systems of linear equations, the geometry of a 3D space (including the scalar product and the vector product) and SN	√D.		
B0B01MA1	Mathematical Analysis 1	Z,ZK	7	
·	The aim of the course is to introduce students to basics of differential and integral calculus of functions of one variable.		•	
B0B01MA2	Mathematical Analysis 2	Z,ZK	7	
The subject covers	s an introduction to the differential and integral calculus in several variables and basic relations between curve and surface integrals.	Other part contain	ns function	
	series and power series with application to Taylor and Fourier series.			
B0B16ET1	Ethic 1	KZ	4	
Aim of this subject is	s to provide the students an orientation not only in general problems of ethics but above all to offer instructions for solving various situ	ations of human li	fe. Essent	
parts of	the subject are discussions in which students can react to lectures but also to actual questions coming with news and look for the co	ommunal answers		
B0B16FI1	Philosophy 1	KZ	4	
We deal with the	most important persons, schools and ideas of ancient philosophy. We are concerned especially on transdisciplinary nature of philos	ophy and connect	ion of old	
	philosophical thoughts with recent problems of science, technology, economics and politics.			
B0B16FIL	Philosophy	ZK	2	
We deal with the	most important persons, schools and ideas of ancient philosophy. We are concerned especially on transdisciplinary nature of philosophy.	ophy and connect	ion of old	
	philosophical thoughts with recent problems of science, technology, economics and politics.			
B0B16HI1	History 1	KZ	4	
B0B16HT1	History of science and technology 1	KZ	4	
B0B16HTE	History of technology and economic	ZK	2	
B0B16MME	Macro and Microekonomics	Z,ZK	4	
Basic economic torn	ns, market, law of demand, law of supply, market equilibrium, price regulation, price and income elasticities, consumer's behavior, prod	ucer's behavior, co	st, revenu	
Jasic economic tem	re, monopoly, government macroeconomic policy, gross domestic product, multipliers, money, inflation, banking system, monetary p	olicy, labor market	, business	
	cycle, fiscal policy, foreign trade policy, comparative advantage, CR and EU, Euro.			
	cycle, fiscal policy, foreign trade policy, comparative advantage, CR and EU, Euro. Psychology for managers	ZK	2	
profit, market failu		ZK Z,ZK	2	
profit, market failu	Psychology for managers Psychology	Z,ZK	-	
B0B16MPL B0B16MPS B0B99PRP	Psychology for managers Psychology Procedural Programming	Z,ZK Z,ZK	4	
B0B16MPL B0B16MPS B0B99PRP B1B02FY1	Psychology for managers Psychology	Z,ZK Z,ZK Z,ZK	4 6 8	
B0B16MPL B0B16MPS B0B99PRP B1B02FY1 The basic course of	Psychology for managers Psychology Procedural Programming Physics 1	Z,ZK Z,ZK Z,ZK st one is a classica	4 6 8 I mechan	
B0B16MPL B0B16MPS B0B99PRP B1B02FY1 The basic course of and the second one	Psychology for managers Psychology Procedural Programming Physics 1 physics at the Faculty of Electrical Engineering - Physics 1, is devoted to the introduction into two important areas of physics. The first	Z,ZK Z,ZK Z,ZK st one is a classica	4 6 8 Il mechani ticle, syste	
B0B16MPL B0B16MPS B0B99PRP B1B02FY1 The basic course of and the second one of mass particles at	Psychology for managers Psychology Procedural Programming Physics 1 physics at the Faculty of Electrical Engineering - Physics 1, is devoted to the introduction into two important areas of physics. The first is the electric and magnetic field. Within the framework of the classical mechanics, the students study the particle kinematics; dynamic	Z,ZK Z,ZK Z,ZK st one is a classica cs of the mass party can meet during to	4 6 8 Il mechan ticle, syste	
B0B16MPL B0B16MPS B0B99PRP B1B02FY1 The basic course of and the second one of mass particles alstudies. The classical	Psychology for managers Psychology Procedural Programming Physics 1 physics at the Faculty of Electrical Engineering - Physics 1, is devoted to the introduction into two important areas of physics. The first 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	Z,ZK Z,ZK Z,ZK st one is a classica cs of the mass party can meet during to dents can use the	4 6 8 Il mechani ticle, syste their furthe facts gain	
B0B16MPL B0B16MPS B0B99PRP B1B02FY1 The basic course of and the second one of mass particles austudies. The classical	Psychology for managers Psychology Procedural Programming Physics 1 physics at the Faculty of Electrical Engineering - Physics 1, is devoted to the introduction into two important areas of physics. The first 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 all mechanics is followed by the relativistic mechanics, electric and magnetic field - both stationary as well as non-stationary. The students are considered in the process of the constant of the classical magnetic field - both stationary as well as non-stationary. The students are considered in the classical magnetic field - both stationary as well as non-stationary.	Z,ZK Z,ZK Z,ZK st one is a classica cs of the mass party can meet during to dents can use the	4 6 8 Il mechani ticle, syste their furthe facts gaine	
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in DC circuits and in sinusoidal steady state as well as transients, caused by changes in the circuit. Acquired knowledge should, among other things, also be used for critical assessment							
	of the results of the analysis and simulation of electrical circuits by means of software tools.						
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 course						
contains funda	contains fundamentals of Safety Electrical Engineering. In this way the students receive qualification of instructed person that enables them to work on electrical equipment.						
BEZZ	Basic Health and Occupational Safety Regulations	Z	0				
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 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/f3.html Generated: day 2025-07-12, time 09:37.