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)	Completion	Credits	Scope	Semester	Role	
	Tutors, authors and guarantors (gar.)						
BEZB	Safety in Electrical Engineering for a Bachelor's Degree Ivana Nová, Radek Havlíček, Vladimír Kůla Radek Havlíček Vladimír Kůla (Gar.)	Z	0	2BP+2BC	Z,L	Р	
B0B01LAG	Linear Algebra Daniel Gromada, Jiří Velebil, Jakub Rondoš, Natalie Žukovec, Matěj Dostál Jiří Velebil Jiří Velebil (Gar.)	Z,ZK	8	4P+2S	Z	Р	
B0B16MME	Macro and Microekonomics	Z,ZK	4	2P+2S	Z	Р	
B0B01MA1	Mathematical Analysis 1 Martin Křepela, Josef Tkadlec, Josef Dvořák, 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 Havlíček, Vladimír Kůla Radek Havlíček Vladimír Kůla (Gar.)	Z	0	2BP+2BC	Z	Р	
B1B14ZEL	Fundamentals of Electrotechnical Engineering	KZ	3	2P+2C	Z	Р	
		Min. cours.					
2015_BEEMH	Humanitní předměty B0B16ET1,B0B16FIL, (see the list of groups below)	1	Min/Max			P	
		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 Daniel Gromada, Jakub Rondoš, Josef Dvořák, Petr Habala, Jakub Staněk Petr Habala Petr Habala (Gar.)	Z,ZK	4	2P+2C	L	Р
B1B31EOS	Electric circuits Martin Pokorný Martin Pokorný (Gar.)	Z,ZK	6	3P+2S	Z	Р
B1B02FY1	Physics 1 Petr Koníček Petr Koníček (Gar.)	Z,ZK	8	4P+1L+2C	L	Р
B0B01MA2	Mathematical Analysis 2 Martin Bohata, Miroslav Korbelář, Petr Hájek, Jaroslav Tišer, Karel Pospíšil, Paola Vivi, Hana Turčinová Martin Bohata 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	s Scope	Semester	Role
2015_BE	ЕМН	н	umanitní přec	lmětv		cours. 1 cours. 9	Min/Ma	ax		P
B0B16ET1	Ethic 1		B0B16FIL	Philosophy		B0B16FI	1	Philosophy 1		
B0B16HTE	History of	technology and econom	y and econom B0B16HT1 History of science and technolog .			B0B16HI1 Histo		History 1		
B0B16MPS	Psycholog	у	B0B16MPL	Psychology for managers A003TV Physical Education		ation				

List of courses of this pass:

A003TV	Name of the course	Completion	Credite
	Physical Education	Z	2
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 ar
stability, numerical	solutions of algebraic and differential equations and their systems). The course takes advantage of the synnergy between theoretical	al and practical po	nt of view.
B0B01LAG	Linear Algebra	Z,ZK	8
	e initial parts of linear algebra. Firstly, the basic notions of a linear space and linear mappings are covered (linear dependence and inde	,	coordinate
	matrices (determinants, inverse matrices, matrices of a linear map, eigenvalues and eigenvectors, diagonalisation, etc) is covered	•	
	solving systems of linear equations, the geometry of a 3D space (including the scalar product and the vector product) and S\	/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
	an introduction to the differential and integral calculus in several variables and basic relations between curve and surface integrals.		s function
•	series and power series with application to Taylor and Fourier series.	·	
B0B16ET1	Ethic 1	KZ	4
	to provide the students an orientation not only in general problems of ethics but above all to offer instructions for solving various situ		e. Essent
parts of t	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
I I	most important persons, schools and ideas of ancient philosophy. We are concerned especially on transdisciplinary nature of philos	ophy and connecti	on of old
	philosophical thoughts with recent problems of science, technology, economics and politics.		
B0B16FIL	Philosophy	ZK	2
	most important persons, schools and ideas of ancient philosophy. We are concerned especially on transdisciplinary nature of philos	ophy and connecti	
	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
	is, market, law of demand, law of supply, market equilibrium, price regulation, price and income elasticities, consumer's behavior, prod	,	•
	e, monopoly, government macroeconomic policy, gross domestic product, multipliers, money, inflation, banking system, monetary product, multipliers, money, monetary product, multipliers, money, multipliers, multipliers, money, multipliers, multipliers, multipliers, money, multipliers, multiplier		
	cycle, fiscal policy, foreign trade policy, comparative advantage, CR and EU, Euro.		
B0B16MPL		ZK	2
	Psychology for managers	ZK	2
B0B16MPS	Psychology for managers Psychology	ZK Z,ZK	2
B0B16MPS B0B99PRP	Psychology for managers Psychology Procedural Programming	ZK Z,ZK Z,ZK	2 4 6
B0B16MPS B0B99PRP B1B02FY1	Psychology for managers Psychology Procedural Programming Physics 1	ZK Z,ZK Z,ZK Z,ZK	2 4 6 8
B0B16MPS B0B99PRP B1B02FY1 The basic course of p	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 firs	ZK Z,ZK Z,ZK Z,ZK Z,ZK st one is a classica	2 4 6 8 I mechani
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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	safety course is to give the students basic knowledge of electrical equipment and installation as to avoid danger arising from operation	of it. This introdu	ctory 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 2025-12-08, time 07:01.