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.)	adek Havlí ek Vladimír K la Z 0 2BP+2BC Z,				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	4P+2S Z,L		
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.					
	Humanitní p edm ty B0B16ET1,B0B16FIL, (see the list of groups below)	1	Min/Max				
2015_BEEMH		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 courses and codes of members of this group (for specification see here or below the list of courses)			Com	pletion	Credit	Scope	Semester	Role
					Min.	cours.				
2015_BEEMH Human		umanitní p ec	manitní p edm ty		1 cours.	Min/Ma 4/28			Р	
						9				
B0B16ET1	Ethic 1		B0B16FIL	Philosophy		B0B16FI	1 Philosophy 1			
B0B16HTE	History of t	echnology and econom	B0B16HT1	History of science and technolog B0B16HI1 History		History 1				
B0B16MPS	Psycholog	у	B0B16MPL	Psychology for managers A003TV Physical E		Physical Educ	ation			

List of courses of this pass:

1	Name of the course	Completion	Credits
A003TV	TV Physical Education		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 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	ependence, basis,	coordinate
etc). The calculus of	f matrices (determinants, inverse matrices, matrices of a linear map, eigenvalues and eigenvectors, diagonalisation, etc) is covered		ons includ
	solving systems of linear equations, the geometry of a 3D space (including the scalar product and the vector product) and SV	VD.	
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
	s to provide the students an orientation not only in general problems of ethics but above all to offer instructions for solving various situ		
	the subject are discussions in which students can react to lectures but also to actual questions coming with news and look for the co		
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 philosophy.	ophy and connect	ion of old
	philosophical thoughts with recent problems of science, technology, economics and politics.	<u> </u>	1
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.		1
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
	Macro and Microekonomics ns, market, law of demand, law of supply, market equilibrium, price regulation, price and income elasticities, consumer's behavior, prod	Z,ZK	
Basic economic term		Z,ZK lucer's behavior, co	st, revenu
Basic economic term	ns, market, law of demand, law of supply, market equilibrium, price regulation, price and income elasticities, consumer's behavior, prod	Z,ZK lucer's behavior, co	ost, revenu
Basic economic term	ns, market, law of demand, law of supply, market equilibrium, price regulation, price and income elasticities, consumer's behavior, prod re, monopoly, government macroeconomic policy, gross domestic product, multipliers, money, inflation, banking system, monetary p	Z,ZK lucer's behavior, co	st, revenu
Basic economic term profit, market failur	ns, market, law of demand, law of supply, market equilibrium, price regulation, price and income elasticities, consumer's behavior, produce, monopoly, government macroeconomic policy, gross domestic product, multipliers, money, inflation, banking system, monetary policy, foreign trade policy, comparative advantage, CR and EU, Euro.	Z,ZK lucer's behavior, co olicy, labor market	st, revenu , business
Basic economic term profit, market failur	ns, market, law of demand, law of supply, market equilibrium, price regulation, price and income elasticities, consumer's behavior, product, multipliers, money, inflation, banking system, monetary product, money, inflation, banking system, monetary product, multipliers, monetary product, multipliers	Z,ZK ucer's behavior, co olicy, labor market ZK Z,ZK	bst, revenu , business
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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							
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 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 provide	d by the Rector's Office of the CTU. Safety is considered one of the basic duties of all employees and students. The knowledge of He	alth and Occupati	ional 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 2025-06-06, time 03:32.