# Study plan

# Name of study plan: Electrical Engineering, Power Engineering and Management -Electrical Engineering and Management

Faculty/Institute/Others: Faculty of Electrical Engineering Department: Branch of study guaranteed by the department: Welcome page Garantor of the study branch: Program of study: Electrical Engineering, Power Engineering and Management Type of study: Bachelor full-time Required credits: 171 Elective courses credits: 9 Sum of credits in the plan: 180 Note on the plan:

Name of the block: Compulsory courses in the program Minimal number of credits of the block: 155 The role of the block: P

Code of the group: 2015\_BEEMBAP Name of the group: Bachelor Project Requirement credits in the group: In this group you have to gain 15 credits Requirement courses in the group: In this group you have to complete 1 course Credits in the group: 15 Note on the group:

	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
BBAP15	Bachelor thesis	Z	15	15s	L,Z	Р

 Characteristics of the courses of this group of Study Plan: Code=2015\_BEEMBAP Name=Bachelor Project

 BBAP15
 Bachelor thesis
 Z
 15

### Code of the group: 2015 BEEMBBE

Name of the group: Safety of the bachelor's studies

Requirement credits in the group:

Requirement courses in the group: In this group you have to complete at least 2 courses

Credits in the group: 0

Note on the group:

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 <b>Radek Havlí ek</b> Vladimír K la (Gar.)	Z	0	2BP+2BC	Z,L	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	Ρ

### Characteristics of the courses of this group of Study Plan: Code=2015\_BEEMBBE Name=Safety of the bachelor's studies

 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 introductory course contains fundamentals of Safety Electrical Engineering. In this way the students receive qualification of instructed person that enables them to work or electrical equipment.
 Q

 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 Czect 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.

# Code of the group: 2015\_BEEMH Name of the group: Humanities subjects Requirement credits in the group: In this group you have to gain at least 4 credits (at most 28) Requirement courses in the group: In this group you have to complete at least 1 course (at most 9)

Credits in the group: 4

Note on the group:

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
B0B16ET1	Ethic 1 Vladimír Sláme ka Vladimír Sláme ka Vladimír Sláme ka (Gar.)	KZ	4	2P+2C	Z	Р
B0B16FIL	Philosophy Peter Zamarovský Peter Zamarovský Peter Zamarovský (Gar.)	ZK	2	2P+0S	Z,L	Р
B0B16FI1	Philosophy 1 Peter Zamarovský Peter Zamarovský Peter Zamarovský (Gar.)	KZ	4	2P+2S	Z	Р
B0B16HTE	History of technology and economic Marcela Efmertová, Jan Mikeš Marcela Efmertová Marcela Efmertová (Gar.)	ZK	2	2P+0S	Z,L	Р
B0B16HT1	History of science and technology 1 Marcela Efmertová, Jan Mikeš Marcela Efmertová Marcela Efmertová (Gar.)	KZ	4	2P+2S	Z	Р
B0B16HI1	History 1 Milena Josefovi ová Milena Josefovi ová Milena Josefovi ová (Gar.)	KZ	4	2P+2S	Z	Р
B0B16MPS	<b>Psychology</b> Jan Fiala <b>Jan Fiala</b> Jan Fiala (Gar.)	Z,ZK	4	2P+2S	Z,L	Р
B0B16MPL	Psychology for managers Jan Fiala <b>Jan Fiala</b> Jan Fiala (Gar.)	ZK	2	2P+0S	Z,L	Р
A003TV	Physical Education Ji í Drnek	Z	2	0+2	L,Z	Р

### Characteristics of the courses of this group of Study Plan: Code=2015\_BEEMH Name=Humanities subjects

B0B16ET1	Ethic 1	KZ	4
Aim of this subject is	to provide the students an orientation not only in general problems of ethics but above all to offer instructions for solving various	situations of hun	nan life. Essential
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 communa	al answers.	
B0B16FIL	Philosophy	ZK	2
We deal with the mo	st important persons, schools and ideas of ancient philosophy. We are concerned especially on transdisciplinary nature of philo	sophy and conne	ction of old
philosophical though	ts with recent problems of science, technology, economics and politics.		
B0B16FI1	Philosophy 1	KZ	4
We deal with the mo	st important persons, schools and ideas of ancient philosophy. We are concerned especially on transdisciplinary nature of philo	sophy and conne	ction of old
philosophical though	ts with recent problems of science, technology, economics and politics.		
B0B16HTE	History of technology and economic	ZK	2
B0B16HT1	History of science and technology 1	KZ	4
B0B16HI1	History 1	KZ	4
B0B16MPS	Psychology	Z,ZK	4
B0B16MPL	Psychology for managers	ZK	2
A003TV	Physical Education	Z	2

Code of the group: 2015\_BEEMP Name of the group: Compulsory subjects of the programme Requirement credits in the group: In this group you have to gain 136 credits Requirement courses in the group: In this group you have to complete 26 courses Credits in the group: 136 Note on the group:

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 Petr Habala, Jakub Rondoš, Jakub Stan k, Daniel Gromada, Josef Dvo ák Petr Habala Petr Habala (Gar.)	Z,ZK	4	2P+2C	L	Ρ
B1B38EMA	Electrical Measurements Jakub Svatoš <b>Jakub Svatoš</b> Jakub Svatoš (Gar.)	KZ	5	2P+2L	L	Р
B1B31EOS	Electric circuits Martin Pokorný, Michal Šimek Martin Pokorný Martin Pokorný (Gar.)	Z,ZK	6	3P+2S	Z	Р
B1B15EN1	Power Engineering 1	Z,ZK	6	3P+2S	L	Р
B1B15EN2	Power Engineering 2 Ivo Doležel, Zden k Müller	Z,ZK	5	2P+2L	Z	Р

B1B17EMP	Electromagnetic Field	Z,ZK	5	2P+2C	Z	Р
	Vít zslav Pankrác Vít zslav Pankrác Vít zslav Pankrác (Gar.) Elektronics for Heavy-current engeneering	_,		21.120		
B1B34EPS	Vladimír Janí ek, Adam Bou a, Jan Novák, Tomáš Teplý, Tomáš Martan Vladimír Janí ek Vladimír Janí ek (Gar.)	KZ	4	2P+2L	Z	Р
B1B02FY1	Physics 1 Petr Koní ek Petr Koní ek Petr Koní ek (Gar.)	Z,ZK	8	4P+1L+2C	L	Р
B1B02FY2	Physics 2 Petr Koní ek, Marek Brothánek, Vojt ch Jandák Petr Koní ek Petr Koní ek (Gar.)	Z,ZK	7	3P+1L+2C	Z	Р
B0B01KAN	<b>Complex Analysis</b> Zden k Mihula, Hana Tur inová <b>Zden k Mihula</b> Zden k Mihula (Gar.)	Z,ZK	5	2P+2S	Z	Р
B0B01LAG	Linear Algebra Jakub Rondoš, Daniel Gromada, Josef Dvo ák, Ji í Velebil, Natalie Žukovec, Mat j Dostál <b>Ji í Velebil</b> 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
B0B01MA2	Mathematical Analysis 2 Hana Tur inová, Miroslav Korbelá, Petr Hájek, Martin Bohata, Jaroslav Tišer, Karel Pospíšil, Paola Vivi <b>Petr Hájek</b> Jaroslav Tišer (Gar.)	Z,ZK	7	4P+2S	L,Z	Р
B1B13MVE	Materials for Power Electrical Engineering	Z,ZK	5	2P+2L	Z	Р
B0B99PRP	Procedural Programming	Z,ZK	6	2P+2C	Z	Р
B1BPROJ4	Bachelor project Jan Mikeš, Zden k Müller, Jan Kyncl, Jan Bauer, Ivana Beshajová Pelikánová, Karel Künzel, Stanislav Bou ek, Ji í Vaší ek, Miroslav Vítek, Jan Bauer Jan Bauer (Gar.)	Z	4	4s	Z,L	Р
B1B13PPS	Industrial computer systems Karel Künzel Karel Künzel Karel Künzel (Gar.)	Z,ZK	4	2P+2L	L	Р
B0B01STP	Statistics and Probability Jakub Stan k, Miroslav Korbelá, Kate ina Helisová, Bogdan Radovi Kate ina Helisová Kate ina Helisová (Gar.)	Z,ZK	5	2P+2S	L	Р
B1B13VST	Technology in Electrical Engineering	Z,ZK	5	3P+2L	L	Р
B1B15VYA	Computational Applications Jan Kyncl Jan Kyncl (Gar.)	KZ	4	2P+2C	L	Р
B1B13VVZ	Manufacturing of Power Devices	Z,ZK	5	2P+2L	Z	Р
B1B14ZPO	Fundametals of Electric Drives Pavel Kobrle Pavel Kobrle	Z,ZK	5	2P+2L	Z	Р
B1B14ZSP	Electric Machines and Apparatuses Basics Pavel Kobrle, Pavel Mindl Pavel Kobrle Pavel Kobrle (Gar.)	Z,ZK	5	3P+2L	L	Р
B1B14ZEL	Fundamentals of Electrotechnical Engineering	KZ	3	2P+2C	Z	Р
B1B14ZVE	Power Electronics Jan Bauer, Ji í Lettl <b>Ji í Lettl</b> Ji í Lettl (Gar.)	Z,ZK	4	2P+2L	Z	Р
B0B01DRNDiThis course introduces studstability, numerical solutionsB1B38EMAEI	e courses of this group of Study Plan: Code=2015_BEEMP Name fferencial Equations and Numerical Analysis ents to the classical theory of ordinary differential equations (separable and linear ODEs) of algebraic and differential equations and their systems). The course takes advantage ectrical Measurements indamentals of measurement and instrumentation. Based on the principle of the methods	) and also to bsio of the synnergy	cs of nume between t	Z, erical methods of heoretical and	ZK (errors in cal practical po (Z	4 Iculations and int of view. 5
	citance and inductance) a structure and properties of measuring instruments are explain f magnetic measurements close the course.	ned including prin	nciples of t	heir correct ap	plication and	d an accuracy
B1B31EOS EI The subject describes funda form the basis of knowledge in DC circuits and in sinusoid	ectric circuits amental methods of electrical circuit analysis. The aim is to unify different level of knowle necessary for next subjects. It presents the difference among physical circuit and its mod dal steady state as well as transients, caused by changes in the circuit. Acquired knowled	lels, and then it p	resents th	om schools of o e behavior of b	asic ideal cir	cuit elements
	s and simulation of electrical circuits by means of software tools.			7	ZK	6
	wer Engineering 2				ZK	5
	ectromagnetic Field			Z,	ZK	5
-	s acquinted with principles and applied electromagnetic field theory basics. ektronics for Heavy-current engeneering				Z	4
Knowledge of current basic and large analog, digital and	passive and active electronic components. Structure, physical and circuit properties of c d optical signals. More complex circuit systems and communication technologies. Measu	-	-	ehavior when w	vorking with	both small
The basic course of physics and the second one is the el of mass particles and rigid l studies. The classical mech	hysics 1 at the Faculty of Electrical Engineering - Physics 1, is devoted to the introduction into tw ectric and magnetic field. Within the framework of the classical mechanics, the students s bodies. The students should be able to solve basic problems dealing with the description anics is followed by the relativistic mechanics, electric and magnetic field - both stationar f electrical circuits, theory of electrotechnical materials or radioelectronics. Apart of this, 2.	study the particle of mechanical s ry as well as nor	kinematic systems, w n-stationar	cs. The first one s; dynamics of /hich they can i y. The students	the mass pa meet during can use the	rticle, system their further e facts gained

B1B02FY2	Physics 2	Z.ZK	7
	•	thermodynamics.	Following topic
- the theory of waves - w	vill give to the students basic insight into the properties of waves and will help to the students to understand that the present	ed description of t	he waves has a
universal character in sp	ite of the waves character. Particular types of waves, such as acoustic or optical waves are the subjects of the following sec	tion. Quantum me	chanics and
nuclear physics will com	plete the student?s general education in physics. The knowledge gained in this course will help to the students in study of s	uch modern areas	as robotics,
computer vision, measu	ring technique and will allow them to understand the principles of novel technologies and functioning of new electronic devic	es.	
B0B01KAN	Complex Analysis	Z.ZK	5
The course is an introdu		I ' I	cluding their
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	•	I ' I	-
<u> </u>		7 7K	1
		1 ' 1	-
		policy, labor mark	et, business
		7 71/	7
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	,	I ' I	•
-		lls. Other part cont	ains function
series and power series	with application to Taylor and Fourier series.		
B1B13MVE	Materials for Power Electrical Engineering	Z,ZK	5
At first a physical descri	ption of basic properties and basic types of materials for electrical engineering is carried out. Types of conductors, supercon-	ductors, insulators	s, magnetic
materials and semicond	uctors, which are used in power electrical engineering, are presented. The stress is put on relationships between properties,	, technology and t	he use. The
student will meet, in high	ner detail, with ceramics for electrical engineering, with properties of mica, glass and their applications, with environmental c	conductive joining,	with materials
for thin and thick films a	nd with selected nanomaterials and their applications.		
B0B99PRP	Procedural Programming	Z,ZK	6
B1BPROJ4		Z	4
		 7.7K	
The subject is focused o	n basic knowledges about computer control systems used in electrotechnic engineering and energetics. Students works with	I ' I	•
-		hardware for data	a acquisition and
data processing, softwa	re tools and application examples. There are presented elementary digital circuits, the representation of numbers and their p	hardware for data processing in micro	a acquisition and pcomputer and
data processing, softwa fundamental block of mi	re tools and application examples. There are presented elementary digital circuits, the representation of numbers and their p croprocessor and microcomputer. The single chip microcomputer, embedded application, industrial PC and design to industri	hardware for data processing in micro rial condition are p	a acquisition and ocomputer and presented.
data processing, softwa fundamental block of mi B0B01STP	re tools and application examples. There are presented elementary digital circuits, the representation of numbers and their p croprocessor and microcomputer. The single chip microcomputer, embedded application, industrial PC and design to industri Statistics and Probability	hardware for data processing in micro rial condition are p Z,ZK	a acquisition and pecomputer and presented. 5
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Code of the group: 2015\_BZAJ Name of the group: Exam from the english language Requirement credits in the group: Requirement courses in the group: In this group you have to complete 2 courses Credits in the group: 0 Note on the group:

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
B0B04B1K	English language B1 - classified assessment Markéta Havlí ková, Pavla Péterová, Erik Peter Stadnik, Michael Ynsua, Dana Saláková, Petra Juna Jennings <b>Petra Juna Jennings</b> Petra Juna Jennings (Gar.)	KZ	0	0C	Z,L	Р
B0B04B2Z	English language B2 - exam Markéta Havlí ková, Michael Ynsua, Dana Saláková, Petra Juna Jennings Petra Juna Jennings Petra Juna Jennings (Gar.)	Z,ZK	0	0C	Z,L	Р

#### Characteristics of the courses of this group of Study Plan: Code=2015\_BZAJ Name=Exam from the english language

B0B04B1K	English language B1 - classified assessment	KZ	0
verifying of the student?	s skills of B1 level		
B0B04B2Z	English language B2 - exam	Z,ZK	0
I) The B2 English Exam	is a compulsory subject for all Faculty of Electrical Engineering students at the Czech Technical University. According to the	Study and Exami	nation Rules and
Regulations for Student	s at CTU (Part III, Article 4), a compulsory subject is one whose completion is a necessary condition in order to successfully	complete the stud	ly programme. In
addition, this requires the	ne passing of an examination evaluated on the scale A, B, C, D, or E (SERR Part III, Article 6). II) According to the Common E	uropean Framew	ork of Reference
for Languages (CEFR),	an international standard for describing language ability, the definition of an English language learner who has achieved the	B2 (Upper-Intern	nediate) level is
one who can understan	d the main ideas of complex text on both concrete and abstract topics, including technical discussions in his/her field of specia	lisation. Can intera	act with a degree
of fluency and spontane	ity that makes regular interaction with native speakers quite possible without strain for either party. Can produce clear, detail	ed text on a wide r	ange of subjects
and explain a viewpoint	on a topical issue giving the advantages and disadvantages of various options. III) Students who have successfully passed	an approved inter	national exam
within the past five year	s may present their certificate to the Department of Languages, Faculty of Electrical Engineering.Upon approval, students are	then exempt from	both the Written
Test and the Oral Part.	For a list of approved international exams go the department website: http://jazyky.fel.cvut.cz/		

## Name of the block: Compulsory courses of the specialization Minimal number of credits of the block: 16

The role of the block: PO

## Code of the group: 2015\_BEEMPO2

Name of the group: Compulsory subjects of the branch

Requirement credits in the group: In this group you have to gain 16 credits

- Requirement courses in the group: In this group you have to complete 4 courses
- Credits in the group: 16

## Note on the group:

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
B0B16PPP	Business Law	KZ	4	2P+2S	L	PO
B1B16UEE	Economy of Power Industry	KZ	4	2P+2S	Z	PO
B1B16ZFM	Basics of Financial Management	Z,ZK	4	2P+2S	Z	PO
B0B16ZPU	Basics of Business Economics	KZ	4	2P+2S	L	PO

### Characteristics of the courses of this group of Study Plan: Code=2015\_BEEMPO2 Name=Compulsory subjects of the branch

B0B16PPP	Business Law	KZ	4
B1B16UEE	Economy of Power Industry	KZ	4
B1B16ZFM	Basics of Financial Management	Z,ZK	4
B0B16ZPU	Basics of Business Economics	KZ	4

Name of the block: Elective courses Minimal number of credits of the block: 0 The role of the block: V

Code of the group: 2015\_BJKA Name of the group: English language courses Requirement credits in the group: Requirement courses in the group: Credits in the group: 0 Note on the group:

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
B0B04A21	English Language A2-1 Dana Saláková	Z		2s	Z	V
B0B04A22	English Language A2-2 Dana Saláková	Z	0	2s	L	V
B0B04B11	English Language B1-1 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	0	2C	Z	V
B0B04B12	English Language B1-2 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	0	2C	L	V
B0B04B21	English Language B2-1 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	3	2C	Z	V
B0B04B22	English Language B2-2 Petra Juna Jennings Petra Juna Jennings (Gar.)	Z	3	2C	Z,L	V
Characteristics	of the courses of this group of Study Plan: Code=2015_BJKA Name	=English lan	guage co	ourses		
B0B04A21	English Language A2-1	_			Z	
The course is open	to students who are beginners in their second language. Course objective: Achieving compete	nce in basic Engli	sh.		I	
B0B04A22	English Language A2-2				Z	0
The course is open	to students who are beginners in their second foreign language. The course objective is to dev	elop and sustain	their basic k	nowledge o	f the English	anguage.
B0B04B11	English Language B1-1				Z	0
Course objective: Br	roadening the basic knowledge of general English; mastering basic specialised language; focusi	ng on text analysis	s and vocabu	ulary expan	sion; understa	nding spoke
English.						
B0B04B12	English Language B1-2				Z	0
Course objective: Br	roadening the basic knowledge of general English; mastering basic specialised language; focusi	ng on text analysis	and vocabu	ulary expan	sion; understa	nding spoke
English.						
B0B04B21	English Language B2-1				Z	3
This course is desig	ned as a full-year, two semester preparation course for the universitys compulsory B2-level En	glish Examination	(Anglický ja	zyk B2 - zk	ouška - B0B0	4B2Z*). Wh <sup>i</sup>
the course is focuse	ed on helping students reach a level required to pass the B2-level English Examination (or impl	rove their English	for a higher	mark), it als	so focuses mo	re on the
academic and techn	nical vocabulary and grammar expected of students at the university level. *NOTE: This exam is a	also used for deter	rmining an a	ppropriate l	evel of Englis	n for Erasm

/ International Study.

#### B0B04B22 English Language B2-2

This course is designed as a full-year, two semester preparation course for the universitys compulsory B2-level English Examination (Anglický jazyk B2 - zkouška - BoB04B2Z \*). While the course is focused on helping students reach a level required to pass the B2-level English Examination (or improve their English for a higher mark), it also focuses more on the academic and technical vocabulary and grammar expected of students at the university level. \*NOTE: This exam is also used for determining an appropriate level of English for Erasmus / International Study.

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Code of the group: BTV Name of the group: Physical education Requirement credits in the group: Requirement courses in the group: Credits in the group: 0 Note on the group:

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
TVV	Physical education	Z	0	0+2	Z,L	V
A003TV	Physical Education Ji í Drnek	Z	2	0+2	L,Z	V
TV-V1	Physical education	Z	1	0+2	Z,L	V
TVV0	Physical education	Z	0	0+2	Z,L	V

#### Characteristics of the courses of this group of Study Plan: Code=BTV Name=Physical education

A003TV	Physical Education	Z	2
TVV	Physical education	Z	0
TV-V1	Physical education	Z	1
TVV0	Physical education	Z	0

Code of the group: BTVK Name of the group: Physical education courses Requirement credits in the group: Requirement courses in the group: Credits in the group: 0 Note on the group:

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
TVKLV	Physical Education Course	Z	0	7dní	L	V
TVKZV	Physical Education Course	Z	0	7dní	Z	V

#### Characteristics of the courses of this group of Study Plan: Code=BTVK Name=Physical education courses

TVKLV	Physical Education Course	Z	0
TVKZV	Physical Education Course	Z	0
•	· · · · · · · · · · · · · · · · · · ·		

Code of the group: 2015\_BEEMVOL Name of the group: Elective subjects Requirement credits in the group: Requirement courses in the group: Credits in the group: 0 Note on the group: ~Nabío

~Nabídku volitelných předmětů uspořádaných podle kateder najdete na webových stránkách http://www.fel.cvut.cz/cz/education/volitelne-predmety.html\\

### List of courses of this pass:

Code	Name of the course	Completion	Credits
A003TV	Physical Education	Z	2
B0B01DRN	Differencial Equations and Numerical Analysis	Z,ZK	4
This course introduc	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
stability, numerical	solutions of algebraic and differential equations and their systems). The course takes advantage of the synnergy between theoretic	al and practical po	int of view.
B0B01KAN	Complex Analysis	Z,ZK	5
The course is an	introduction to the fundamentals of complex analysis and its applications. The basic principles of Fourier, Laplace, and Z-transform a	are explained, inclu	uding their
	applications, particularly to solving differential and difference equations.		
B0B01LAG	Linear Algebra	Z,ZK	8
The course covers the	he initial parts of linear algebra. Firstly, the basic notions of a linear space and linear mappings are covered (linear dependence and ind	ependence, basis,	coordinates
etc). The calculus of	f matrices (determinants, inverse matrices, matrices of a linear map, eigenvalues and eigenvectors, diagonalisation, etc) is covered	next. The applicati	ons include
	solving systems of linear equations, the geometry of a 3D space (including the scalar product and the vector product) and S	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 cover	s an introduction to the differential and integral calculus in several variables and basic relations between curve and surface integrals	. Other part contair	ns function
	series and power series with application to Taylor and Fourier series.		
B0B01STP	Statistics and Probability	Z,ZK	5
The aim of the co	purse is to introduce students to the fundamentals of probability theory and mathematical statistics, their computational methods as	well as applications	s of these
	mathematical tools to practical examples.		
B0B04A21	English Language A2-1	Z	
	The course is open to students who are beginners in their second language. Course objective: Achieving competence in basic E	nglish.	•
B0B04A22	English Language A2-2	Z	0
The course is ope	en to students who are beginners in their second foreign language. The course objective is to develop and sustain their basic knowle	dge of the English	language.
B0B04B11	English Language B1-1	Z	0
Course objective: Br	roadening the basic knowledge of general English; mastering basic specialised language; focusing on text analysis and vocabulary exp	bansion; understan	ding spoker
	English.		
B0B04B12	English Language B1-2	Z	0
Course objective: Br	roadening the basic knowledge of general English; mastering basic specialised language; focusing on text analysis and vocabulary exp	, bansion; understan	, ding spoker
	English.		
B0B04B1K	English language B1 - classified assessment	KZ	0
	verifying of the student's skills of B1 level		•
B0B04B21	English Language B2-1	Z	3
This course is desig	ned as a full-year, two semester preparation course for the universitys compulsory B2-level English Examination (Anglický jazyk B2-	- zkouška - B0B04I	B2Z*). While
the course is focu	sed on helping students reach a level required to pass the B2-level English Examination (or improve their English for a higher mark)	, it also focuses m	ore on the
academic and techn	ical vocabulary and grammar expected of students at the university level. *NOTE: This exam is also used for determining an appropria	ate level of English	for Erasmus
	/ International Study.		
B0B04B22	English Language B2-2	Z	3
This course is desig	ned as a full-year, two semester preparation course for the universitys compulsory B2-level English Examination (Anglický jazyk B2 -	zkouška - B0B04E	32Z *). While
	sed on helping students reach a level required to pass the B2-level English Examination (or improve their English for a higher mark)		
academic and techn	ical vocabulary and grammar expected of students at the university level. *NOTE: This exam is also used for determining an appropria	ate level of English	for Erasmus
	/ International Study.		

Regulations for Stu	English language B2 - exam	7 71/	0
-	exam is a compulsory subject for all Faculty of Electrical Engineering students at the Czech Technical University. According to the Stud	Z,ZK ly and Examinatio	0 n Rules and
	idents at CTU (Part III, Article 4), a compulsory subject is one whose completion is a necessary condition in order to successfully comp	plete the study pr	ogramme. In
addition, this requir	res the passing of an examination evaluated on the scale A, B, C, D, or E (SERR Part III, Article 6). II) According to the Common Europ	ean Framework	of Reference
for Languages (CE	EFR), an international standard for describing language ability, the definition of an English language learner who has achieved the B2	(Upper-Intermed	iate) level is
	stand the main ideas of complex text on both concrete and abstract topics, including technical discussions in his/her field of specialisati		•
-	ntaneity that makes regular interaction with native speakers quite possible without strain for either party. Can produce clear, detailed te:	-	-
-	wpoint on a topical issue giving the advantages and disadvantages of various options. III) Students who have successfully passed an a years may present their certificate to the Department of Languages, Faculty of Electrical Engineering. Upon approval, students are then		
within the past live	Test and the Oral Part. For a list of approved international exams go the department website: http://jazyky.fel.cvut.cz/	rexempt nom bot	
B0B16ET1	Ethic 1	KZ	4
	is to provide the students an orientation not only in general problems of ethics but above all to offer instructions for solving various situations in the students and the students are solving various situations for s		1 .
	f 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
	e most important persons, schools and ideas of ancient philosophy. We are concerned especially on transdisciplinary nature of philoso		
	philosophical thoughts with recent problems of science, technology, economics and politics.		
B0B16FIL	Philosophy	ZK	2
	e most important persons, schools and ideas of ancient philosophy. We are concerned especially on transdisciplinary nature of philoso	ophy and connect	tion 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
	market, law of demand, law of supply, market equilibrium, price regulation, price and income elasticities, consumer's behavior, produ		
	ure, monopoly, government macroeconomic policy, gross domestic product, multipliers, money, inflation, banking system, monetary po		
. ,	cycle, fiscal policy, foreign trade policy, comparative advantage, CR and EU, Euro.		
B0B16MPL	Psychology for managers	ZK	2
B0B16MPS	Psychology	Z,ZK	4
B0B16PPP	Business Law	KZ	4
B0B16ZPU	Basics of Business Economics	KZ	4
B0B99PRP	Procedural Programming	Z,ZK	6
B1B02FY1	Physics 1	Z,ZK	8
	ا f physics at the Faculty of Electrical Engineering - Physics 1, is devoted to the introduction into two important areas of physics. The first		-
and the second one of mass particles a	and rigid bodies. The students should be able to solve basic problems dealing with the description of mechanical systems, which they		-
of mass particles a studies. The classic	and rigid bodies. The students should be able to solve basic problems dealing with the description of mechanical systems, which they cal mechanics is followed by the relativistic mechanics, electric and magnetic field - both stationary as well as non-stationary. The stud e study of electrical circuits, theory of electrotechnical materials or radioelectronics. Apart of this, the knowledge gained in this course i	can meet during lents can use the	their further facts gained
of mass particles a studies. The classic	cal mechanics is followed by the relativistic mechanics, electric and magnetic field - both stationary as well as non-stationary. The stud	can meet during lents can use the	their further facts gained
of mass particles a studies. The classic	cal mechanics is followed by the relativistic mechanics, electric and magnetic field - both stationary as well as non-stationary. The stud e study of electrical circuits, theory of electrotechnical materials or radioelectronics. Apart of this, the knowledge gained in this course is	can meet during lents can use the	their further facts gained
of mass particles a studies. The classic n this course in the B1B02FY2 The course Physics	cal mechanics is followed by the relativistic mechanics, electric and magnetic field - both stationary as well as non-stationary. The stud e study of electrical circuits, theory of electrotechnical materials or radioelectronics. Apart of this, the knowledge gained in this course is consecutive course Physics 2. Physics 2 is 2 is closely linked with the course Physics 1. Within the framework of this course the students will first of all learn foundations of ther	can meet during lents can use the is required for the Z,ZK rmodynamics. Fo	their further facts gained study of the 7 Ilowing topic
of mass particles a studies. The classic n this course in the B1B02FY2 The course Physics - the theory of wave	cal mechanics is followed by the relativistic mechanics, electric and magnetic field - both stationary as well as non-stationary. The stud e study of electrical circuits, theory of electrotechnical materials or radioelectronics. Apart of this, the knowledge gained in this course is consecutive course Physics 2. Physics 2 is 2 is closely linked with the course Physics 1. Within the framework of this course the students will first of all learn foundations of there res - will give to the students basic insight into the properties of waves and will help to the students to understand that the presented d	can meet during lents can use the is required for the Z,ZK rmodynamics. Fo escription of the	their further facts gained e study of the 7 Ilowing topic waves has a
of mass particles a studies. The classic n this course in the B1B02FY2 The course Physic - the theory of wave universal charact	cal mechanics is followed by the relativistic mechanics, electric and magnetic field - both stationary as well as non-stationary. The stude a study of electrical circuits, theory of electrotechnical materials or radioelectronics. Apart of this, the knowledge gained in this course is consecutive course Physics 2. Physics 2 is 2 is closely linked with the course Physics 1. Within the framework of this course the students will first of all learn foundations of theres - will give to the students basic insight into the properties of waves and will help to the students to understand that the presented d ter in spite of the waves character. Particular types of waves, such as acoustic or optical waves are the subjects of the following section	can meet during lents can use the is required for the Z,ZK rmodynamics. Fo escription of the n. Quantum mech	their further facts gained a study of the 7 Ilowing topic waves has a hanics and
of mass particles a studies. The classic n this course in the B1B02FY2 The course Physic - the theory of wave universal charact nuclear physics w	cal mechanics is followed by the relativistic mechanics, electric and magnetic field - both stationary as well as non-stationary. The stude a study of electrical circuits, theory of electrotechnical materials or radioelectronics. Apart of this, the knowledge gained in this course is consecutive course Physics 2. Physics 2 is 2 is closely linked with the course Physics 1. Within the framework of this course the students will first of all learn foundations of theres - will give to the students basic insight into the properties of waves and will help to the students to understand that the presented d ter in spite of the waves character. Particular types of waves, such as acoustic or optical waves are the subjects of the following section will complete the student?s general education in physics. The knowledge gained in this course will help to the students in study of such	can meet during lents can use the is required for the Z,ZK rmodynamics. Fo lescription of the n. Quantum mech n modern areas a	their further facts gained a study of the 7 Ilowing topic waves has a hanics and
of mass particles a studies. The classic n this course in the B1B02FY2 The course Physic - the theory of wave universal charact nuclear physics w corr	cal mechanics is followed by the relativistic mechanics, electric and magnetic field - both stationary as well as non-stationary. The stude a study of electrical circuits, theory of electrotechnical materials or radioelectronics. Apart of this, the knowledge gained in this course is consecutive course Physics 2. Physics 2 is 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 res - will give to the students basic insight into the properties of waves and will help to the students to understand that the presented d ter in spite of the waves character. Particular types of waves, such as acoustic or optical waves are the subjects of the following section will complete the student?s general education in physics. The knowledge gained in this course will help to the students in study of such approximation, measuring technique and will allow them to understand the principles of novel technologies and functioning of new elect	can meet during lents can use the is required for the Z,ZK rmodynamics. Foi lescription of the n. Quantum mech n modern areas a tronic devices.	their further facts gained study of the 7 Ilowing topic waves has a hanics and as robotics,
of mass particles a studies. The classic in this course in the B1B02FY2 The course Physics - the theory of wave universal charact nuclear physics w corr B1B13MVE	cal mechanics is followed by the relativistic mechanics, electric and magnetic field - both stationary as well as non-stationary. The stud e study of electrical circuits, theory of electrotechnical materials or radioelectronics. Apart of this, the knowledge gained in this course is consecutive course Physics 2. Physics 2 is 2 is closely linked with the course Physics 1. Within the framework of this course the students will first of all learn foundations of there res - will give to the students basic insight into the properties of waves and will help to the students to understand that the presented d ter in spite of the waves character. Particular types of waves, such as acoustic or optical waves are the subjects of the following section will complete the student?s general education in physics. The knowledge gained in this course will help to the students in study of such nputer vision, measuring technique and will allow them to understand the principles of novel technologies and functioning of new elect Materials for Power Electrical Engineering	can meet during lents can use the is required for the Z,ZK rmodynamics. Fo lescription of the n. Quantum mech n modern areas a tronic devices. Z,ZK	their further facts gained e study of the 7 Ilowing topic waves has a hanics and as robotics, 5
of mass particles a studies. The classic in this course in the B1B02FY2 The course Physics - the theory of wave universal charact nuclear physics w corr B1B13MVE At first a physica	cal mechanics is followed by the relativistic mechanics, electric and magnetic field - both stationary as well as non-stationary. The stud e study of electrical circuits, theory of electrotechnical materials or radioelectronics. Apart of this, the knowledge gained in this course is consecutive course Physics 2. Physics 2 is 2 is closely linked with the course Physics 1. Within the framework of this course the students will first of all learn foundations of there res - will give to the students basic insight into the properties of waves and will help to the students to understand that the presented d ter in spite of the waves character. Particular types of waves, such as acoustic or optical waves are the subjects of the following section will complete the student?s general education in physics. The knowledge gained in this course will help to the students in study of such nputer vision, measuring technique and will allow them to understand the principles of novel technologies and functioning of new elect Materials for Power Electrical Engineering al description of basic properties and basic types of materials for electrical engineering is carried out. Types of conductors, superconductors, su	can meet during lents can use the is required for the Z,ZK rmodynamics. Fo lescription of the n. Quantum mech n modern areas a tronic devices. Z,ZK uctors, insulators,	their further facts gained e study of the 7 Ilowing topic waves has a hanics and as robotics, 5 magnetic
of mass particles a studies. The classic in this course in the B1B02FY2 The course Physics - the theory of wave universal charact nuclear physics w corr B1B13MVE At first a physica materials and set	cal mechanics is followed by the relativistic mechanics, electric and magnetic field - both stationary as well as non-stationary. The stud e study of electrical circuits, theory of electrotechnical materials or radioelectronics. Apart of this, the knowledge gained in this course is consecutive course Physics 2. Physics 2 is 2 is closely linked with the course Physics 1. Within the framework of this course the students will first of all learn foundations of there res - will give to the students basic insight into the properties of waves and will help to the students to understand that the presented d ter in spite of the waves character. Particular types of waves, such as acoustic or optical waves are the subjects of the following section will complete the student?s general education in physics. The knowledge gained in this course will help to the students in study of such nputer vision, measuring technique and will allow them to understand the principles of novel technologies and functioning of new elect Materials for Power Electrical Engineering al description of basic properties and basic types of materials for electrical engineering is carried out. Types of conductors, supercondu- miconductors, which are used in power electrical engineering, are presented. The stress is put on relationships between properties, to	can meet during lents can use the is required for the Z,ZK rmodynamics. Fo lescription of the n Quantum mech n modern areas a tronic devices. Z,ZK uctors, insulators, echnology and the	their further facts gained e study of the 7 Ilowing topic waves has a hanics and as robotics, 5 magnetic e use. The
of mass particles a studies. The classic in this course in the B1B02FY2 The course Physics - the theory of wave universal charact nuclear physics w corr B1B13MVE At first a physica materials and set	cal mechanics is followed by the relativistic mechanics, electric and magnetic field - both stationary as well as non-stationary. The stud e study of electrical circuits, theory of electrotechnical materials or radioelectronics. Apart of this, the knowledge gained in this course is consecutive course Physics 2. Physics 2 is 2 is closely linked with the course Physics 1. Within the framework of this course the students will first of all learn foundations of there res - will give to the students basic insight into the properties of waves and will help to the students to understand that the presented d ter in spite of the waves character. Particular types of waves, such as acoustic or optical waves are the subjects of the following section will complete the student?s general education in physics. The knowledge gained in this course will help to the students in study of such nputer vision, measuring technique and will allow them to understand the principles of novel technologies and functioning of new elect Materials for Power Electrical Engineering al description of basic properties and basic types of materials for electrical engineering is carried out. Types of conductors, superconductors, su	can meet during lents can use the is required for the Z,ZK rmodynamics. Fo lescription of the n Quantum mech n modern areas a tronic devices. Z,ZK uctors, insulators, echnology and the	their further facts gained e study of the 7 Ilowing topic waves has a hanics and as robotics, 5 magnetic e use. The
of mass particles a studies. The classic in this course in the B1B02FY2 The course Physics - the theory of wave universal charact nuclear physics w com B1B13MVE At first a physica materials and set student will meet,	cal mechanics is followed by the relativistic mechanics, electric and magnetic field - both stationary as well as non-stationary. The stud e study of electrical circuits, theory of electrotechnical materials or radioelectronics. Apart of this, the knowledge gained in this course is consecutive course Physics 2. Physics 2 is 2 is closely linked with the course Physics 1. Within the framework of this course the students will first of all learn foundations of there res - will give to the students basic insight into the properties of waves and will help to the students to understand that the presented d ter in spite of the waves character. Particular types of waves, such as acoustic or optical waves are the subjects of the following section will complete the student?s general education in physics. The knowledge gained in this course will help to the students in study of such nputer vision, measuring technique and will allow them to understand the principles of novel technologies and functioning of new elect Materials for Power Electrical Engineering al description of basic properties and basic types of materials for electrical engineering is carried out. Types of conductors, supercondu- ter in higher detail, with ceramics for electrical engineering, are presented. The stress is put on relationships between properties, te in higher detail, with ceramics for electrical engineering, with properties of mica, glass and their applications, with environmental cond for thin and thick films and with selected nanomaterials and their applications.	can meet during lents can use the is required for the Z,ZK rmodynamics. Fo lescription of the n Quantum mech n modern areas a tronic devices. Z,ZK uctors, insulators, echnology and the ductive joining, wi	their further facts gained e study of the 7 Ilowing topic waves has a hanics and as robotics, 5 magnetic e use. The
of mass particles a studies. The classic in this course in the B1B02FY2 The course Physica - the theory of wave universal charact nuclear physics w com B1B13MVE At first a physica materials and sei student will meet, i B1B13PPS	cal mechanics is followed by the relativistic mechanics, electric and magnetic field - both stationary as well as non-stationary. The stude e study of electrical circuits, theory of electrotechnical materials or radioelectronics. Apart of this, the knowledge gained in this course is consecutive course Physics 2. Physics 2 is 2 is closely linked with the course Physics 1. Within the framework of this course the students will first of all learn foundations of there res - will give to the students basic insight into the properties of waves and will help to the students to understand that the presented d ter in spite of the waves character. Particular types of waves, such as acoustic or optical waves are the subjects of the following section will complete the student?s general education in physics. The knowledge gained in this course will help to the students in study of such nputer vision, measuring technique and will allow them to understand the principles of novel technologies and functioning of new elect Materials for Power Electrical Engineering al description of basic properties and basic types of materials for electrical engineering is carried out. Types of conductors, supercondu- ter in higher detail, with ceramics for electrical engineering, are presented. The stress is put on relationships between properties, the in higher detail, with ceramics for electrical engineering, with properties of mica, glass and their applications, with environmental cond for thin and thick films and with selected nanomaterials and their applications. Industrial computer systems	can meet during lents can use the is required for the Z,ZK rmodynamics. Fo lescription of the n modern areas a tronic devices. Z,ZK uctors, insulators, echnology and the ductive joining, wi	their further facts gained e study of the 7 Ilowing topic waves has a hanics and as robotics, 5 magnetic e use. The th materials
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The course focus	Power Electronics	Z,ZK	4
	es on the basic types of power semiconductor converters, which are used to change the parameters of electricity. Students are introd	duced to the basic	principles,
	properties and applications of power electronic converters, their advantages, disadvantages, and fuse sizing.		1
B1B15EN1	Power Engineering 1	Z,ZK	6
B1B15EN2	Power Engineering 2	Z,ZK	5
B1B15VYA	Computational Applications	KZ	4
B1B16UEE	Economy of Power Industry	KZ	4
B1B16ZFM	Basics of Financial Management	Z,ZK	4
B1B17EMP	Electromagnetic Field	Z,ZK	5
	This course gets its students acquinted with principles and applied electromagnetic field theory basics.	•	•
B1B31EOS	Electric circuits	Z,ZK	6
The subject descr	ibes fundamental methods of electrical circuit analysis. The aim is to unify different level of knowledge of students coming from school	ols of different cat	egories and
-	owledge necessary for next subjects. It presents the difference among physical circuit and its models, and then it presents the behavio		-
	i sinusoidal steady state as well as transients, caused by changes in the circuit. Acquired knowledge should, among other things, also l		
			assessmen
	of the results of the analysis and simulation of electrical circuits by means of software tools.	1	1
B1B34EPS	Elektronics for Heavy-current engeneering	KZ	4
Knowledge of curr	ent basic passive and active electronic components. Structure, physical and circuit properties of components. Component behavior	when working with	n both small
and large analog	digital and optical signals. More complex circuit systems and communication technologies. Measuring the most important applicatio	ns of modern sem	niconductor
	devices.		
B1B38EMA		KZ	5
B1B38EMA	Electrical Measurements		
The subject is for	Electrical Measurements used to fundamentals of measurement and instrumentation. Based on the principle of the methods of electrical quantities measurem	nent (voltage, curr	ent, power,
The subject is for	Electrical Measurements used to fundamentals of measurement and instrumentation. Based on the principle of the methods of electrical quantities measurem ce, capacitance and inductance) a structure and properties of measuring instruments are explained including principles of their corre	nent (voltage, curr	ent, power,
The subject is for frequency, resistant	Electrical Measurements used to fundamentals of measurement and instrumentation. Based on the principle of the methods of electrical quantities measurem ce, capacitance and inductance) a structure and properties of measuring instruments are explained including principles of their corre estimation. Fundamentals of magnetic measurements close the course.	nent (voltage, curr ct application and	ent, power, an accuracy
The subject is for frequency, resistant B1BPROJ4	Electrical Measurements used to fundamentals of measurement and instrumentation. Based on the principle of the methods of electrical quantities measurem ce, capacitance and inductance) a structure and properties of measuring instruments are explained including principles of their corre estimation. Fundamentals of magnetic measurements close the course. Bachelor project	nent (voltage, curr ct application and	ent, power, an accuracy
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The subject is for frequency, resistant B1BPROJ4 BBAP15 BEZB	Electrical Measurements used to fundamentals of measurement and instrumentation. Based on the principle of the methods of electrical quantities measurem ce, capacitance and inductance) a structure and properties of measuring instruments are explained including principles of their corre estimation. Fundamentals of magnetic measurements close the course. Bachelor project Bachelor thesis Safety in Electrical Engineering for a Bachelor's Degree	ct application and Z	ent, power, an accuracy 4 15 0
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For updated information see <u>http://bilakniha.cvut.cz/en/f3.html</u> Generated: day 2025-06-08, time 15:59.