# Study plan

# Name of study plan: Electronics and Communications - Electronics

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: Electronics and Communications Type of study: Follow-up master full-time Required credits: 109 Elective courses credits: 11 Sum of credits in the plan: 120 Note on the plan:

Name of the block: Compulsory courses in the program Minimal number of credits of the block: 109 The role of the block: P

Code of the group: 2018\_MEKEP1 Name of the group: Compulsory subjects of the programme Requirement credits in the group: In this group you have to gain 84 credits Requirement courses in the group: In this group you have to complete 14 courses Credits in the group: 84 Note on the group: Specializace elektronika

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 Completion Credits Scope Semester Code Role members) Tutors, authors and guarantors (gar.) CAD in HF Technique BE2M17CADA Z.ZK 6 2P+2C L. Р Zbyn k Škvor Zbyn k Škvor Zbyn k Škvor (Gar.) **Custom Electronics Design** BE2M34ZETA ΚZ 6 2P+2L Ζ Ρ Vladimír Janí ek Vladimír Janí ek (Gar.) **Design of Integrated Circuits** BE2M34NIS 2P+2C L Z,ZK 6 Р Vladimír Janí ek **Vladimír Janí ek** Ji í Jakovenko (Gar.) **Digital Signal Processing** BE2M31DSPA Z,ZK 6 2P+2C Ζ Р Petr Pollák Petr Pollák Petr Pollák (Gar.) **Electronic Security Systems** Ζ BE2M34EZSA Z,ZK 6 2P+2C Р Miroslav Husák, Tomáš Teplý Miroslav Husák Miroslav Husák (Gar.) Integrated System Structures BE2M34SIS 6 2P+2C Ζ Z,ZK Р Vladimír Janí ek, Ji í Jakovenko **Ji í Jakovenko** Ji í Jakovenko (Gar.) **Microprocessors** 7 BE2M37MAM Z.ZK 6 2P+2L Р Stanislav Vítek Stanislav Vítek Stanislav Vítek (Gar.) **Microsystems** BE2M34MST Z,ZK 6 2P+2L L Р Miroslav Husák, Alexandr Laposa, Adam Bou a Miroslav Husák Miroslav Husák (Gar.) Nanoelectronics and Nanotechnology BE2M34NANA Z,ZK 6 2P+2C 1 Ρ Jan Voves Jan Voves Jan Voves (Gar.) **Planar Integrated Optics** 7 BE2M34PIOA Z,ZK 6 2P+2C Ρ Vít zslav Je ábek, Václav Prajzler Václav Prajzler Václav Prajzler (Gar.) Project BE2MPROJ6 Ζ 6 0p+6s Р Jan Šístek, Pavel Máša, Ivan Pravda, Lubor Jirásek, Zden k Be vá , František Rund František Rund František Rund (Gar.) Solid State Physics BE2M34SST 6 3P+1L Ζ Z,ZK Р Jan Voves Jan Voves Jan Voves (Gar.) VLSI System Design BE2M34NSV Z,ZK 6 2P+2L Ζ Ρ Pavel Hazdra Pavel Hazdra Pavel Hazdra (Gar.) **Wireless Technologies** BE2M32BTSA Z,ZK 6 2P + 2L Z,L Р Zden k Be vá , Lukáš Vojt ch, Zbyn k Kocur, Pavel Mach **Ján Ku erák** Zden k Be vá (Gar.)

#### Characteristics of the courses of this group of Study Plan: Code=2018\_MEKEP1 Name=Compulsory subjects of the programme

BE2M17CADA CAD in HF Technique

Z,ZK

6

BE2M34ZETA Custom Electronics Design	KZ	6
The course deals with the design methodology of advanced custom electronics. The aim is to convert theoretical knowledge of previous studies into	specific proposals	for practical
applications. Student are getting familiar with the problems encountered in the professional electronic design and manufacturing. This course is based	on real experience	in development
and production, showing the latest technological trends and component base.		
BE2M34NIS Design of Integrated Circuits	Z,ZK	6
Main tasks of integrated circuits designer; design abstraction levels - Y chart. Definitions of specification, feasibility study, criteria for technology and	design kits selecti	on. Integrated
systems design and simulation methodologies. Main features of full custom design, gate array, standard cells, programmable array logic. Design asp		-
systems. Verilog-A, Verilog-AMS, VHDL-A. Logic and physical synthesis. Frond End and Back End design. Floorplanning, place and route, layout, pa	rasitic extraction,	time analysis,
testbenches design and verification.		
BE2M31DSPA   Digital Signal Processing	Z,ZK	6
The subject gives overview about basic methods of digital signal processing and their applications (examples from speech and biological signal proc	essing): disrete-ti	me signals and
systems, signal characteristics in time and frequency domain, Fourier transform, fast algorithms for DFT computation, introduction to digital filter des	ign, digital filtering	g in time and
frequency domain, decimation and interpolation and their usage in filter banks, basics of LPC analysis. Further details can be found at <a< td=""><td></td><td></td></a<>		
href=http://noel.feld.cvut.cz/vyu/be2m31dspa>http://noel.feld.cvut.cz/vyu/be2m31dspa .		
BE2M34EZSA   Electronic Security Systems	Z,ZK	6
The subject describes the system design, electronic solutions, conception characteristics, reliability and its increasing of electronic security and safe	ty systems. It repo	orts solutions of
electronic sensor systems and methods of security system design, usage of modern electronic components and microprocessors. It offers practical	applications suital	ole for safety
systems of houses, cars, industry companies.		
BE2M34SIS Integrated System Structures	Z,ZK	6
Student learn main design methodologies of analog, digital and optoelectronic integrated systems; Detailed description of the technological process	for the IC product	ion; CMOS
technologies and its advanced sub-micron trends; IC chip topology, layout and design rules; Technology of micro-electro-mechanical systems MEMS	S.	
BE2M37MAM Microprocessors	Z,ZK	6
The aim is to make students acquainted with the properties of microprocessor systems, make students familiar with on-chip peripherals, connect ex	ernal circuit to the	processor bus,
and with implementation of the memory or I/O space address extension. Next, taught the students to make simple program in the assembly language	e, C language and	combination of
both. After completion of this subject student should be able to design and implement simpler microprocessor system including connection of neces	sary peripherals a	nd software
design.		
BE2M34MST Microsystems	Z,ZK	6
The course deals with system integration applied in the design of digital and analog systems. It demonstrates the new possibilities of implementation	and application of	of integrated
microelectronic devices based on various physical and biochemical principles. It presents primarily MEMS technology that increases reliability with all	its attributes. The	course presents
the modern action elements and microactuators, whose operation is based on fundamental physical and biochemical principles, including basic app	lications in micron	nanipulation,
microrobots, microdrives, microsurgery, multimedia, medical, industrial control, automotive, etc. In the course are presented the principles of touch scrubble and touch scr	eens, microgenera	tors of electrical
energy. There are mentioned basic elements of the use of nanotechnology and nanoelectronic structures and basic microsystem technologies.		
BE2M34NANA Nanoelectronics and Nanotechnology	Z,ZK	6
The subject is oriented on the present nanotechnologies in the connection with their electronic, photonic and spintrinic applications. Quantum theory	basics are used	o explain the
effects observed in nanostructures. Basic nanoelectronic structures are described with their possible applications. Modern computer methods and m	odels, which are a	able to simulate
the operation of nanoelectronic structures and which are the important tools for their design and optimalisation, are studied.		
BE2M34PIOA Planar Integrated Optics	Z,ZK	6
The subject describes theoretical and technological principles and design of planar integrated optics and optoelectronics as optical dividers, The stu	dents get acquain	ted with the
principles of the light propagation in planar waveguide and with basic devices and structures of integrated optics and optoelectronics as coupling ele	ments, optical mi	croresonators,
planar optical transmitters an receivers with SS-LD, WG-PD . In the course are integrated devices and structures for telecommunication for multiplex	ing and signal pro	cessing. There
are optical elements for physical and chemical sensor application and basic important measurement and diagnostic methods.		
BE2MPROJ6 Project	Z	6
Independent work in the form of a project. A student will choose a topic from a range of topics related to his or her branch of study, which will be spe	- 1	epartment or
Independent work in the form of a project. A student will choose a topic from a range of topics related to his or her branch of study, which will be spe branch departments. The project will be defended within the framework of a subject. List of possible topics: http://www.fel.cvut.cz/en/education/seme	cified by branch d	-
	cified by branch d	-
branch departments. The project will be defended within the framework of a subject. List of possible topics: http://www.fel.cvut.cz/en/education/seme	cified by branch d stral-projects.htm	·
branch departments. The project will be defended within the framework of a subject. List of possible topics: http://www.fel.cvut.cz/en/education/seme         BE2M34SST       Solid State Physics         The subject is aimed on solid state physics including some parts of statistical physics.	cified by branch d stral-projects.htm Z,ZK	6
branch departments. The project will be defended within the framework of a subject. List of possible topics: http://www.fel.cvut.cz/en/education/seme BE2M34SST Solid State Physics	cified by branch d stral-projects.html Z,ZK Z,ZK	6
branch departments. The project will be defended within the framework of a subject. List of possible topics: http://www.fel.cvut.cz/en/education/seme         BE2M34SST       Solid State Physics         The subject is aimed on solid state physics including some parts of statistical physics.         BE2M34NSV       VLSI System Design	cified by branch d stral-projects.htm Z,ZK Z,ZK e integrated circui	6 6 subsystems.
branch departments. The project will be defended within the framework of a subject. List of possible topics: http://www.fel.cvut.cz/en/education/seme         BE2M34SST       Solid State Physics         The subject is aimed on solid state physics including some parts of statistical physics.       BE2M34NSV         VLSI System Design       Introduction to basic building blocks, architecture and design methodologies of advanced VLSI systems. Structure and design of digital and analogu	cified by branch d stral-projects.htm Z,ZK e integrated circui esting and reliabil	6 6 subsystems.
branch departments. The project will be defended within the framework of a subject. List of possible topics: http://www.fel.cvut.cz/en/education/seme         BE2M34SST       Solid State Physics         The subject is aimed on solid state physics including some parts of statistical physics.       BE2M34NSV         VLSI System Design       Introduction to basic building blocks, architecture and design methodologies of advanced VLSI systems. Structure and design of digital and analogu         Integrated system description and synthesis using cell libraries and IP cores. Synchronization, power consumption and parasitics reduction issues.	cified by branch d stral-projects.htm Z,ZK e integrated circui esting and reliabil	6 6 subsystems.
branch departments. The project will be defended within the framework of a subject. List of possible topics: http://www.fel.cvut.cz/en/education/seme         BE2M34SST       Solid State Physics         The subject is aimed on solid state physics including some parts of statistical physics.       BE2M34NSV         VLSI System Design       Introduction to basic building blocks, architecture and design methodologies of advanced VLSI systems. Structure and design of digital and analogu Integrated system description and synthesis using cell libraries and IP cores. Synchronization, power consumption and parasitics reduction issues. T systems. In seminars and labs, the hardware description language VHDL will be explained and used for practical design, synthesis and testing of a set BE2M32BTSA	cified by branch d stral-projects.htm Z,ZK e integrated circui resting and reliabil system on chip. Z,ZK	6 6 subsystems. ity of integrated 6
branch departments. The project will be defended within the framework of a subject. List of possible topics: http://www.fel.cvut.cz/en/education/seme         BE2M34SST       Solid State Physics         The subject is aimed on solid state physics including some parts of statistical physics.       BE2M34NSV         VLSI System Design       Introduction to basic building blocks, architecture and design methodologies of advanced VLSI systems. Structure and design of digital and analogu Integrated system description and synthesis using cell libraries and IP cores. Synchronization, power consumption and parasitics reduction issues. T systems. In seminars and labs, the hardware description language VHDL will be explained and used for practical design, synthesis and testing of a seminars and labs.	cified by branch d stral-projects.htm Z,ZK e integrated circui resting and reliabil system on chip. Z,ZK , principles and pr	6 6 subsystems. ity of integrated 6 otocols used in
branch departments. The project will be defended within the framework of a subject. List of possible topics: http://www.fel.cvut.cz/en/education/seme         BE2M34SST       Solid State Physics         The subject is aimed on solid state physics including some parts of statistical physics.       BE2M34NSV         VLSI System Design       Introduction to basic building blocks, architecture and design methodologies of advanced VLSI systems. Structure and design of digital and analogu Integrated system description and synthesis using cell libraries and IP cores. Synchronization, power consumption and parasitics reduction issues. T systems. In seminars and labs, the hardware description language VHDL will be explained and used for practical design, synthesis and testing of a set BE2M32BTSA         Wireless Technologies         The lectures give overview of fundamental principles of wireless networks in various areas of their application. Students will understand architecture	cified by branch d stral-projects.htm Z,ZK e integrated circui resting and reliabil system on chip. Z,ZK , principles and pr	6 6 subsystems. ity of integrated 6 otocols used in
branch departments. The project will be defended within the framework of a subject. List of possible topics: http://www.fel.cvut.cz/en/education/seme         BE2M34SST       Solid State Physics         The subject is aimed on solid state physics including some parts of statistical physics.       BE2M34NSV         VLSI System Design       Introduction to basic building blocks, architecture and design methodologies of advanced VLSI systems. Structure and design of digital and analogu Integrated system description and synthesis using cell libraries and IP cores. Synchronization, power consumption and parasitics reduction issues. T systems. In seminars and labs, the hardware description language VHDL will be explained and used for practical design, synthesis and testing of a set BE2M32BTSA         Wireless Technologies         The lectures give overview of fundamental principles of wireless networks in various areas of their application. Students will understand architecture different wireless technologies and learn how these technologies can be exploited in real world applications. The goal is to teach students how to solve.	cified by branch d stral-projects.htm Z,ZK e integrated circui resting and reliabil system on chip. Z,ZK , principles and pr	6 6 subsystems. ity of integrated 6 otocols used in

### Code of the group: 2018\_MEKEDIF

## Name of the group: Diploma Thesis

Requirement credits in the group: In this group you have to gain 25 credits Requirement courses in the group: In this group you have to complete 1 course

## Credits in the group: 25

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
BDIP25	Diploma Thesis	Z	25	22s	L	Р

Characteristics of the courses of this group of Study Plan: Code=2018\_MEKEDIP Name=Diploma Thesis

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

Code of the group: 2018\_MEKEVOL

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: ~Student can choose arbitrary subject of themagister's program (EEM - Electrical Engineering, Power Engineering and Management, EK - Electronics and Communications, KYR - Cybernetics and Robotics, OI - Open Informatics, OES - Open Electronics Systems) which is not part of his curriculum. Student can choose with consideration of recommendation of the branch guarantee.You can find a selection of optional courses organized by the departments on the web site http://www.fel.cvut.cz/cz/education/volitelne-predmety.html

Code of the group: 2018\_MEKEH

Name of the group: Humanities subjects

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
AE0M32KMP	Communications and Media Law	Z,ZK	4	2P + 2C	Z,L	V
BE0M16HSD	History of economy and social studies Marcela Efmertová Marcela Efmertová (Gar.)	Z,ZK	4	2P+2S	Z,L	V
BE0M16HT2	History of science and technology 2 Marcela Efmertová	Z,ZK	4	2P+2S	L	V
BE0M16FI2	Philosophy II	Z,ZK	4	2P+2S	L	V
BE0M16MPS	Psychology	Z,ZK	4	2P+2S	L	V
BE0M16TE1	Theology	Z,ZK	4	2P+2S	L	V

#### Characteristics of the courses of this group of Study Plan: Code=2018\_MEKEH Name=Humanities subjects

AE0M32KMP	Communications and Media Law	Z,ZK	4			
A complex course dedicated to interdisciplinary problems - the legal aspects of electronic communications (information and communications systems), as well as media from the						
viewpoint of European a	and national law. It analyses the areas of informatics, electronic communications, information society services, copyright and g	general intellectua	I property rights,			
the protection of identity	, introduction to software law and the Internet as a global communication and information system.					
BE0M16HSD	History of economy and social studies	Z,ZK	4			
This subject deals with	he history of the European and Czech society in the 19th - 21th centuries. It follows the forming of the European and Czech	political represen	tation, its aims			
and achieved results as	well as the social, economical, technical and cultural development and coexistence of the various ethnical groups.					
BE0M16HT2	History of science and technology 2	Z,ZK	4			
This subject traces histo	rical developments in electrical engineering branches in the world and in the Czech Lands. Its ultimate goal is to stimulate s	, tudents' interest ir	the history and			
traditions of the subject,	while highlighting the developments in technical education and professional organizations, the process of shaping scientific	life and the influe	nce of technical			
engineers						
BE0M16FI2	Philosophy II	Z,ZK	4			
The course is oriented on the transdisciplinar aspects of philosophy, informatics, physics, mathematics and biology.						
BE0M16MPS	Psychology	Z,ZK	4			
BE0M16TE1	Theology	Z,ZK	4			
This subject provides to students the basic orientation in christian theology and requires no special previous education. After short philosophic lecture the basic theologic disciplines						
are gone through. The subject is determined not only to believer students who want to know the reliable theologic grounding but also above all to ones who want to get know Christianity						
- religion from which graws our civilization up.						

# List of courses of this pass:

Code	Name of the course	Completion	Credits			
AE0M32KMP	Communications and Media Law	Z,ZK	4			
A complex course dedicated to interdisciplinary problems - the legal aspects of electronic communications (information and communications systems), as well as media from the viewpoint of European and national law. It analyses the areas of informatics, electronic communications, information society services, copyright and general intellectual property rights,						
	the protection of identity, introduction to software law and the Internet as a global communication and information system.					
BDIP25	Diploma Thesis	Z or bronch of study	25 ( which will			
-	comprehensive work for the Master's degree study programme. A student will choose a topic from a range of topics related to his or h y branch department or branch departments. The diploma thesis will be defended in front of the board of examiners for the comprehe					
BE0M16FI2	Philosophy II The course is oriented on the transdisciplinar aspects of philosophy, informatics, physics, mathematics and biology.	Z,ZK	4			
BE0M16HSD	History of economy and social studies	Z,ZK	4			
This subject deals	with the history of the European and Czech society in the 19th - 21th centuries. It follows the forming of the European and Czech pol and achieved results as well as the social, economical, technical and cultural development and coexistence of the various ethnical		on, its aims			
BE0M16HT2	History of science and technology 2	Z,ZK	4			
-	historical developments in electrical engineering branches in the world and in the Czech Lands. Its ultimate goal is to stimulate stude oject, while highlighting the developments in technical education and professional organizations, the process of shaping scientific life engineers		-			
BE0M16MPS	Psychology	Z,ZK	4			
BE0M16TE1	Theology	Z,ZK	4			
	es to students the basic orientation in christian theology and requires no special previous education. After short philosophic lecture the subject is determined not only to believer students who want to know the reliable theologic grounding but also above all to ones who	-	-			
are gone through. I	- religion from which graws our civilization up.	o want to get know	Ormotidinity			
BE2M17CADA	CAD in HF Technique	Z,ZK	6			
	Introduction into principles and techniques used in modern microwave circuit design.					
BE2M31DSPA	Digital Signal Processing verview about basic methods of digital signal processing and their applications (examples from speech and biological signal process	Z,ZK	6 bas alsonais			
	haracteristics in time and frequency domain, Fourier transform, fast algorithms for DFT computation, introduction to digital filter desig frequency domain, decimation and interpolation and their usage in filter banks, basics of LPC analysis. Further details can be found href=http://noel.feld.cvut.cz/vyu/be2m31dspa>http://noel.feld.cvut.cz/vyu/be2m31dspa.	n, digital filtering ir	-			
BE2M32BTSA	Wireless Technologies	Z.ZK	6			
	verview of fundamental principles of wireless networks in various areas of their application. Students will understand architecture, pri	,	-			
different wireless te	chnologies and learn how these technologies can be exploited in real world applications. The goal is to teach students how to solve pr	roblems related to	deployment			
BE2M34EZSA	of wireless networks, their operation or development of wireless networks components. Electronic Security Systems	Z,ZK	6			
1	bes the system design, electronic solutions, conception characteristics, reliability and its increasing of electronic security and safety s		-			
electronic sensor	systems and methods of security system design, usage of modern electronic components and microprocessors. It offers practical ap systems of houses, cars, industry companies.	plications suitable	for safety			
BE2M34MST	Microsystems	Z,ZK	6			
The course deals with system integration applied in the design of digital and analog systems. It demonstrates the new possibilities of implementation and application of integrated microelectronic devices based on various physical and biochemical principles. It presents primarily MEMS technology that increases reliability with all its attributes. The course presents the modern action elements and microactuators, whose operation is based on fundamental physical and biochemical principles, including basic applications in micromanipulation, microrobots, microdrives, microsurgery, multimedia, medical, industrial control, automotive, etc. In the course are presented the principles of touch screens, microgenerators of electrical energy. There are mentioned basic elements of the use of nanotechnology and nanoelectronic structures and basic microsystem technologies.						
BE2M34NANA	Nanoelectronics and Nanotechnology	Z,ZK	6			
-	nted on the present nanotechnologies in the connection with their electronic, photonic and spintrinic applications. Quantum theory be nanostructures. Basic nanoelectronic structures are described with their possible applications. Modern computer methods and mode					
enects observed in	the operation of nanoelectronic structures and which are the important tools for their design and optimalisation, are studied		to simulate			
BE2M34NIS	Design of Integrated Circuits	Z,ZK	6			
	rated circuits designer; design abstraction levels - Y chart. Definitions of specification, feasibility study, criteria for technology and design abstraction levels - Y chart.	-	-			
	d simulation methodologies. Main features of full custom design, gate array, standard cells, programmable array logic. Design aspects , Verilog-AMS, VHDL-A. Logic and physical synthesis. Frond End and Back End design. Floorplanning, place and route, layout, paras		-			
testbenches design and verification.						
BE2M34NSV	VLSI System Design	Z,ZK	6			
	ic building blocks, architecture and design methodologies of advanced VLSI systems. Structure and design of digital and analogue in	-	-			
	lescription and synthesis using cell libraries and IP cores. Synchronization, power consumption and parasitics reduction issues. Testi n seminars and labs, the hardware description language VHDL will be explained and used for practical design, synthesis and testing		-			
BE2M34PIOA	Planar Integrated Optics	Z,ZK	6			
	ribes theoretical and technological principles and design of planar integrated optics and optoelectronics as optical dividers, The stude					
principles of the light propagation in planar waveguide and with basic devices and structures of integrated optics and optoelectronics as coupling elements, optical microresonators, planar optical transmitters an receivers with SS-LD, WG-PD. In the course are integrated devices and structures for telecommunication for multiplexing and signal processing. There						
are optical elements for physical and chemical sensor application and basic important measurement and diagnostic methods.						
BE2M34SIS	Integrated System Structures	Z,ZK	6			
	in design methodologies of analog, digital and optoelectronic integrated systems; Detailed description of the technological process for hnologies and its advanced sub-micron trends; IC chip topology, layout and design rules; Technology of micro-electro-mechanical sys	-	n; CMOS			

BE2M34SST Solid State Physics	Z,ZK	6			
The subject is aimed on solid state physics including some parts of statistical physics.					
BE2M34ZETA Custom Electronics Design	KZ	6			
The course deals with the design methodology of advanced custom electronics. The aim is to convert theoretical knowledge of previous studies into space of the studies of t	becific proposals fo	or practical			
applications. Student are getting familiar with the problems encountered in the professional electronic design and manufacturing. This course is based on real experience in development					
and production, showing the latest technological trends and component base.					
BE2M37MAM Microprocessors	Z,ZK	6			
The aim is to make students acquainted with the properties of microprocessor systems, make students familiar with on-chip peripherals, connect external circuit to the processor bus,					
and with implementation of the memory or I/O space address extension. Next, taught the students to make simple program in the assembly language, C language and combination of					
both. After completion of this subject student should be able to design and implement simpler microprocessor system including connection of necessary peripherals and software					
design.					
BE2MPROJ6 Project	Z	6			
Independent work in the form of a project. A student will choose a topic from a range of topics related to his or her branch of study, which will be specified by branch department or					
branch departments. The project will be defended within the framework of a subject. List of possible topics: http://www.fel.cvut.cz/en/education/semestral-projects.html					

For updated information see <u>http://bilakniha.cvut.cz/en/f3.html</u> Generated: day 2025-07-14, time 22:03.