

FACULTY OF ELECTRICAL ENGINEERING

INFORMATION ON DOCTORAL STUDY

Academic year 2020/2021

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This information is valid as of September 1, 2020. During the academic year, some regulations may change, or changes in personnel may occur.

1 GENERAL INFORMATION ON FACULTY OF ELECTRICAL ENGINEERING

1.1 Identification data

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prof. Ing. Pavel Brandštetter, CSc.	VŠB-TU Ostrava
prof. Ing. Ivo Doležel, CSc.	KEP, FEL ZČU v Plzni
doc. Ing. Pavel Drábek, Ph.D.	KEV, FEL ZČU v Plzni
Ing. Dana Drábová, Ph.D.	SÚJB Praha
doc. Ing. Aleš Hamáček, Ph.D.	KET, FEL ZČU v Plzni, Head of Department
doc. Ing. Jiří Hammerbauer, Ph.D.	KEI, FEL ZČU v Plzni, Vice-Dean for Science
prof. Ing. Stanislav Hanus, CSc.	VUT Brno
prof. Ing. Pavel Karban, Ph.D.	KEP, FEL ZČU v Plzni
prof. Ing. Jiří Kazelle, CSc.	VUT Brno
prof. Ing. Václav Kůs, CSc.	KEV, FEL ZČU v Plzni, Head of Department
prof. Dr. Ing. Jiří Maryška, CSc.	TU Liberec
prof. Ing. Miloš Mazánek, CSc.	ČVUT Praha
prof. RNDr. Stanislav Nešpůrek, DrSc.	ÚMCH AV ČR
doc. Ing. Karel Noháč, Ph.D.	KEE, FEL ZČU v Plzni
prof. Ing. Zdeněk Peroutka, Ph.D.	KEV, FEL ZČU v Plzni, Dean
prof. Ing. Jiří Pinker, CSc.	KEI, FEL ZČU v Plzni
doc. Ing. Milan Polívka, Ph.D.	FEL ČVUT Praha
prof. Ing. Josef Psutka, CSc.	KKY, FAV ZČU v Plzni
doc. Ing. Vlastimil Skočil, CSc.	KET, FEL ZČU v Plzni
Dr. Ing. Ladislav Sobotka	Škoda Electric a.s.
doc. Ing. Radek Škoda, Ph.D.	KEE/RICE, FEL ZČU v Plzni
doc. Ing. Václav Šmídl, Ph.D.	RICE, FEL ZČU v Plzni
doc. Ing. Pavel Trnka, Ph.D.	KET, FEL ZČU v Plzni
prof. Ing. Viktor Valouch, CSc.	Ústav termomechaniky AV ČR
prof. Ing. František Vondrášek, CSc.	KEV, FEL ZČU v Plzni
Ing. Stanislav Votruba	ČEPS, a.s. Praha
Ing. Jan Zdebor, CSc.	KKE, FST ZČU v Plzni
prof. Ing. Lumír Kule, CSc., emeritní profesor ZČU	Honorary member of FEE Scientific Board
prof. Ing. Daniel Mayer, DrSc.	Honorary member of FEE Scientific Board

1.2.2 FEE Disciplinary Committee

Chairman:	prof. Ing. Václav Kůs, CSc.
Members:	doc. Ing. Jiří Skála, Ph.D. (KEI)
	doc. Ing. Radek Polanský, Ph.D. (KET)
	Bc. Patrik Ferbas - student
	Ing. Jan Kaska - student
	Ondřej Růžička - student
Substitutes:	Ing. Jiří Fořt, Ph.D. (KEV)
	doc. Ing. Miloslava Tesařová, Ph.D. (KEE)
	Ing. Marcela Ledvinová, Ph.D. (KEP)
	Ing. Martin Juřík – student
	Bc. Jan Leffler – student
	Bc. Ondřej Rauner - student

1.2.3 FEE Doctoral Study Board

Chairman:	prof. Ing. Pavel Karban, Ph.D.	KEP, FEL ZČU v Plzni
Vice-Chairman:	prof. Ing. Václav Kůs, CSc.	KEV, FEL ZČU v Plzni
Members:	prof. Ing. Ivo Doležel, CSc.	KEP, FEL ZČU v Plzni
	doc. Ing. Pavel Drábek, Ph.D.	KEV, FEL ZČU v Plzni
	Ing. Pavel Dvořák, Ph.D.	Škoda Electric, a. s.
	doc. Dr. Ing. Vjačeslav Georgiev	KEI, FEL ZČU v Plzni
	doc. Ing. Aleš Hamáček, Ph.D.	KET, FEL ZČU v Plzni
	prof. Ing. Miroslav Husák, CSc.	FEL ČVUT Praha
	doc. Ing. Martin Kuchař, Ph.D.	FEI VŠB TU Ostrava
	doc. Ing. Karel Noháč, Ph.D.	KEE, FEL ZČU v Plzni
	doc. Ing. Milan Polívka, Ph.D.	FEL ČVUT Praha
	doc. Ing. Radek Škoda, Ph.D.	KEE/RICE FEL ZČU v Plzni
	doc. Ing. Václav Šmídl, Ph.D. et Ph.D.	RICE, FEL ZČU v Plzni / UTIA AV ČR, v.v.i.
	doc. Ing. Jiří Tupa, Ph.D.	KET, FEL ZČU v Plzni

1.2.4 FEE doctoral study programme guarantee

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1.2.5 FEE study branches guarantees

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prof. Ing. Pavel Karban, Ph.D.	Electrical Engineering
prof. Ing. Zdeněk Peroutka, Ph.D.	Electronics

1.2.6 List of supervisors at UWB FEE

Branch of study: Electronics

doc. Ing. Tomáš Blecha, Ph.D.	KET	prof. Ing. Jiří Pinker, CSc.	KEI
doc. Ing. Pavel Drábek, Ph.D.	KEV	doc. Ing. Martin Pittermann, Ph.D.	KEV
doc. Dr. Ing. Vjačeslav Georgiev	KEI	doc. Ing. Martin Poupa, Ph.D.	KEI
doc. Ing. Aleš Hamáček, Ph.D.	KET	doc. Ing. Jan Řeboun, Ph.D.	KET
doc. Ing. Jiří Hammerbauer, Ph.D.	KEI	doc. Ing. Bohumil Skala, Ph.D.	KEV
doc. Ing. Tomáš Glasberger, Ph.D.	KEV	doc. Ing. Jiří Skála, Ph.D.	KEI
prof. Ing. Pavel Karban, Ph.D.	KEP	Ing. Radek Soukup, Ph.D.	KET
doc. Ing. Ivan Konečný, CSc.	KEI	doc. Ing. František Steiner, Ph.D.	KET
Ing. Tomáš Komrská, Ph.D.	KEV	doc. Ing. Václav Šmídl, Ph.D.	KEV
Ing. Zdeněk Kubík, Ph.D.	KEI	prof. Ing. Milan Štork, CSc.	KEI
prof. Ing. Václav Kůs, CSc.	KEV	Ing. Jakub Talla, Ph.D.	KEV
Ing. Richard Linhart, Ph.D.	KEI	Ing. Oldřich Tureček, Ph.D.	KET
prof. Ing. Václav Mentlík, CSc.	KET	Ing. Ivo Veřtát, Ph.D.	KEI
prof. RNDr. Stanislav Nešpůrek, DrSc.	KET	prof. Ing. František Vondrášek, CSc.	KEV
prof. Ing. Zdeněk Peroutka, Ph.D.	KEV	doc. Ing. Karel Zeman, CSc.	KEV

Branch of study: Electrical Engineering

prof. Ing. Zdeňka Benešová, CSc.	KEP	doc. Ing. Martin Pittermann, Ph.D.	KEV
prof. Ing. Ivo Doležel, CSc.	KEP	doc. Ing. Radek Polanský, Ph.D.	KET
doc. Ing. Aleš Hamáček, Ph.D.	KET	doc. Ing. Jan Řeboun, Ph.D.	KET
doc. Ing. Karel Hruška, Ph.D.	KEV	doc. Ing. Bohumil Skala, Ph.D.	KEV
prof. Ing. Pavel Karban, Ph.D.	KEP	Ing. Radek Soukup, Ph.D.	KET
doc. Ing. Vladimír Kindl, Ph.D.	KEI	doc. Ing. František Steiner, Ph.D.	KET
doc. Ing. Václav Kotlan, Ph.D.	KEP	doc. Ing. Václav Šmídl, Ph.D.	KEV
prof. Ing. Václav Kůs, CSc.	KEV	doc. Ing. Pavel Trnka, Ph.D.	KET
doc. Ing. Jiří Laurenc, CSc.	KEE	doc. Ing. Jiří Tupa, Ph.D.	KET
Ing. František Mach, Ph.D.	KEP	doc. Ing. Olga Tůmová, CSc.	KET
prof. Ing. Václav Mentlík, CSc.	KET	prof. Ing. Zdeněk Vostracký, DrSc.	KEE
prof. RNDr. Stanislav Nešpůrek, DrSc.	KET		
Ing. David Pánek, Ph.D.	KEP		
doc. Ing. Roman Pechánek, Ph.D.	KEV		
prof. Ing. Zdeněk Peroutka, Ph.D.	KEV		

Branch of study: Electrical Power Engineering

prof. Ing. Zdeňka Benešová, CSc.	KEP	doc. Ing. Karel Noháč, Ph.D.	KEE
prof. Ing. Ivo Doležel, CSc.	KEP	doc. Ing. Lucie Noháčová, Ph.D.	KEE
doc. Ing. Emil Dvorský, CSc.	KEE	Ing. David Pánek, Ph.D.	KEP
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Ing. Tomáš Komrská, Ph.D.	KEV	prof. Ing. Jan Škorpil, CSc.	KEE
doc. Ing. Václav Kotlan, Ph.D.	KEP	doc. Ing. Václav Šmídl, Ph.D.	KEV
prof. Ing. Jiří Kožený, CSc.	KEE	doc. Ing. Miloslava Tesařová, Ph.D.	KEE
prof. Ing. Václav Kůs, CSc.	KEV	prof. Ing. Zdeněk Vostracký, DrSc.	KEE
doc. Ing. Jiří Laurenc, CSc.	KEE		
doc. Ing. Zbyněk Martínek, CSc.	KEE		
doc. Ing. Eva Müllerová, Ph.D.	KEE		

1.2.7 Members of committees for State doctoral examinations and Dissertation defence

(status 7. 4. 2020)

Branch of study: Electronics

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prof. Ing. Pavol Fedor, CSc., TU Košice, FEI
doc. Dr. Ing. Jiří Flajtingr, ZČU FEL
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doc. Ing. Jiří Hammerbauer, Ph.D., ZČU FEL
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prof. Ing. Petr Chlebiš, CSc., VŠB TU Ostrava
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prof. Ing. Daniel Mayer, DrSc., ZČU FEL
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 doc. Ing. Václav Žalud, CSc., ČVUT Praha, FEL

Branch of study: Electrical Engineering

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 Ing. František Bernat, CSc., ABB / VŠB TU Ostrava
 doc. Ing. Tomáš Blecha, Ph.D., ZČU FEL
 prof. Ing. Lubomír Brančík, CSc., VUT Brno, FEKT
 prof. Ing. Pavel Brandštetter, CSc., VŠB TU Ostrava
 Ing. Martin Brandt, Ph.D., Stredoslovenská
 distribučná, a.s., Žilina
 Ing. Jaromír Braun, DrSc., ext.
 Ing. Jiří Brázdil, MBA, Ph.D., ORGREZ a.s.
 doc. Ing. Eva Černošková, CSc., UPCE Pardubice,
 FChT
 prof. Ing. Jarmila Dědková, CSc., VUT Brno, FEKT
 prof. Ing. Ivo Doležel, CSc., ZČU FEL
 doc. Ing. Bc. Karel Dušek, Ph.D., ČVUT Praha, FEL
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 doc. Ing. Jan Holub, Ph.D., ČVUT Praha, FEL
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 doc. Ing. Vladimír Kindl, Ph.D., ZČU FEL
 doc. Ing. Zdeňka Kolská, Ph.D., UJEP Ústí nad
 Labem
 Ing. František Kostka, CSc., AV ČR

doc. Ing. Václav Kotlan, Ph.D., ZČU FEL
 Ing. Lukáš Koudela, Ph.D., Daikin Industries Czech
 Republik, s.r.o.
 prof. Ing. Dobroslav Kováč, CSc., TU Košice
 prof. Ing. Jiří Kožený, CSc., ZČU FEL
 doc. Ing. Eva Kučerová, CSc., ZČU FEL
 doc. Ing. Vojtěch Kulda, CSc., ELCOM
 RNDr. Pavel Kůs, Ph.D., MÚ AV ČR
 prof. Ing. Václav Kůs, CSc., ZČU FEL doc. Dr. Ing.
 Jan Kyncl, ČVUT Praha, FEL
 doc. Ing. Jiří Laurenc, CSc., ZČU FEL
 prof. Ing. Jiří Lettl, CSc., ČVUT Praha, FEL
 doc. Ing. Dalibor Lukáš, Ph.D., VŠB TU Ostrava, FEI
 Ing. František Mach, Ph.D., ZČU FEL
 doc. Ing. Pavel Mach, CSc., ČVUT Praha, FEL
 prof. Ing. Daniel Mayer, DrSc., ZČU FEL
 prof. Ing. Václav Mentlík, CSc., ZČU FEL
 Ing. Martin Michajlec, Ph.D., Continental Brandýs nad
 Labem
 doc. Ing. Eva Müllerová, Ph.D., ZČU FEL
 prof. RNDr. Stanislav Nešpůrek, DrSc., AV ČR / ZČU
 FEL
 Ing. David Pánek, Ph.D., ZČU FEL
 doc. Dr. Ing. Miroslav Patočka, VUT Brno, FEKT
 prof. Ing. Zdeněk Peroutka, Ph.D., ZČU FEL
 Ing. Josef Pihera, Ph.D., ZČU FEL
 doc. Ing. Martin Pittermann, Ph.D., ZČU FEL
 doc. Ing. Radek Polanský, Ph.D., ZČU FEL
 doc. Ing. Radek Procházka, Ph.D., ČVUT Praha, FEL
 Ing. Pavel Prosr, Ph.D., ZČU FEL
 Ing. Petr Rada, CSc., e t.
 doc. Ing. Pavol Rafajdus, Ph.D., Žilinská univerzita,
 FEL
 prof. Ing. Aleš Richter, CSc., TUL Liberec, FM
 Ing. Pavel Ritz, Ph.D., Monarfle, s. r. o., Štúrovo
 doc. Ing. Jan Řeboun, Ph.D., ZČU FEL
 doc. Ing. Jakub Siegel, Ph.D., VŠCHT Praha
 doc. Ing. Bohumil Skala, Ph.D., ZČU FEL
 doc. Ing. Vlastimil Skočil, CSc., ZČU FEL

doc. Ing. Milan Smetana, Ph.D., Žilinská univerzita, FEIT
 Ing. Pavel Soukup, Ph.D., ČVUT Praha, UTEF
 prof. Ing. Oldřich Starý, CSc., ČVUT Praha, FEL
 doc. Ing. František Steiner, Ph.D., ZČU FEL
 prof. Ing. Vladimír Šály, Ph.D., STU Bratislava, FEI
 Ing. Lumír Šašek, CSc., ETD Plzeň
 Ing. Milan Šíma, ZČU FEL
 doc. Ing. Michal Šimon, Ph.D., ZČU FST
 doc. Ing. Václav Šmídl, Ph.D., ZČU FEL
 Ing. Jan Švec, Ph.D., ČVUT Praha, FEL
 prof. Ing. Václav Švorčík, DrSc., VŠCHT Praha
 doc. Ing. Pavel Trnka, Ph.D., ZČU FEL
 doc. Ing. David Tuček, Ph.D., UTB Zlín, FAME

doc. Ing. Olga Tůmová, CSc., ZČU FEL
 doc. Ing. Jiří Tupa, Ph.D., ZČU FEL
 doc. Ing. Jan Urbánek, CSc., ČVUT Praha, FEL
 prof. Ing. Viktor Valouch, CSc., AV ČR
 doc. Ing. Michal Váry, Ph.D., STU Bratislava, FEI
 doc. Ing. František Veselka, CSc., VUT Brno, FEKT
 doc. Ing. Ondřej Vítek, Ph.D., VUT Brno, FEKT
 prof. Ing. František Vondrášek, CSc., ZČU FEL
 doc. Ing. Pavel Vorel, Ph.D., VUT Brno, FEKT
 prof. Ing. Zdeněk Vostrácký, DrSc., ZČU FEL
 prof. Ing. Pavel Záskalický, Ph.D., TU Košice, FEI
 Ing. František Zeman, Ph.D., BRUSH SEM, s.r.o.
 doc. Ing. Karel Zeman, CSc., ZČU FEL
 doc. Ing. Jaroslav Žáček, CSc., ČVUT Praha, FEL

Branch of study: Electrical Power Engineering

prof. Ing. Juraj Altus, Ph.D., Žilinská univerzita, FEL
 Ing. Jiří Barták, CSc., ČEPS
 doc. Ing. Lumír Beňa, Ph.D., TU Košice, FEI
 prof. Ing. Zdeňka Benešová, CSc., ZČU FEL
 Ing. František Bernat, CSc., ABB
 doc. Ing. Peter Braciník, Ph.D., Žilinská univerzita, FEL
 Ing. Jiří Brázdil, MBA, Ph.D., ORGREZ a.s.
 prof. Ing. Ivo Doležel, CSc., ZČU FEL
 doc. Ing. Jiří Drápela, Ph.D., VUT, FEKT
 doc. Ing. Emil Dvorský, CSc., ZČU FEL
 prof. Ing. Radomír Goňo, Ph.D., VŠB-TU Ostrava
 doc. Dr. Ing. Jiří Gurecký, VŠB TU Ostrava
 prof. Dr.-Ing. Rainer Haller, ZČU FEL
 doc. Ing. Pavla Hejtmánková, Ph.D., ZČU FEL
 Ing. Jan Hruza, Škoda ETD Transformátory
 doc. Ing. Miroslav Chomát, CSc., AV ČR
 doc. Ing. Eduard Janeček, CSc., ZČU FAV
 prof. Ing. František Janíček, Ph.D., TU Bratislava
 Ing. Martin Kadera, Ph.D., ČEZ, a.s.
 prof. Ing. Pavel Karban, Ph.D., ZČU FEL
 Ing. Martin Kašpírek, Ph.D., E.ON ČR, s.r.o.
 doc. Ing. Viera Khunová, Ph.D., STU Bratislava, FCHPT
 prof. Ing. Michal Kolcun, Ph.D., TU Košice, FEI
 prof. Ing. Irida Kolcunová, Ph.D., TU Košice, FEI
 doc. Ing. Václav Kotlan, Ph.D., ZČU FEL
 Ing. Lukáš Koudela, Ph.D., Daikin Industries Czech Republik, s.r.o.
 prof. Ing. Jiří Kožený, CSc., ZČU FEL
 doc. Ing. Irena Kratochvílová, Ph.D., ČVUT, Praha, FJFI
 doc. Ing. Petr Krejčí, Ph.D., VŠB-TU Ostrava
 prof. Ing. Václav Kůs, CSc., ZČU FEL
 doc. Dr. Ing. Jan Kyncl, ČVUT Praha, FEL
 Ing. František Kysnar, Ph.D., EGC – EnerGoConsult ČB s.r.o., České Budějovice

doc. Ing. Jiří Laurenc, CSc., ZČU FEL
 Ing. Martin Lovecký, Ph.D., Škoda JS, a. s., Plzeň
 Ing. František Mach, Ph.D., ZČU FEL
 doc. Dr. Ing. Věslav Mach, VŠB TU Ostrava
 doc. Ing. Zbyněk Martínek, CSc., ZČU FEL
 doc. Ing. Karel Máslo, CSc., ČEPS a.s. Praha / VUT Brno
 doc. Ing. Petr Mastný, Ph.D., VUT Brno, FEKT
 prof. Ing. Daniel Mayer, DrSc., ZČU FEL
 Ing. David Mezera, Ph.D., E.ON ČR, s.r.o.
 doc. Ing. Pavel Mindl, CSc., ČVUT Praha, FEL
 doc. Ing. Zdeněk Müller, Ph.D., ČVUT Praha, FEL
 doc. Ing. Eva Müllerová, Ph.D., ZČU FEL
 doc. Ing. Karel Noháč, Ph.D., ZČU FEL
 doc. Ing. Lucie Noháčová, Ph.D., ZČU FEL
 Ing. Pavel Novák, Ph.D., ZČU FEL / Schneider Electric Sachsenwerk GmbH, Regensburg, SRN
 doc. Ing. Alena Otčenášová, Ph.D., Žilinská univerzita, FEL
 Ing. David Pánek, Ph.D., ZČU FEL
 Ing. Václav Pašek, Ph.D., Plzeňská teplárenská, a.s.
 prof. Ing. Zdeněk Peroutka, Ph.D., ZČU FEL
 Ing. Antonín Podhrázký, Ph.D., Rillfem Plzeň
 doc. Ing. Igor Poznyak, CSc., ZČU FEL
 doc. Ing. Radek Procházka, Ph.D., ČVUT Praha, FEL
 prof. Ing. Aleš Richter, CSc., TU Liberec, ÚMTI
 Ing. David Rot, Ph.D., ZČU FEL
 prof. Ing. Stanislav Rusek, CSc., VŠB TU Ostrava
 RNDr. Bohumil Sadecký, CSc., EGU Praha
 Ing. Jan Sedláček, Ph.D., ZČU FEL
 prof. Ing. Oldřich Starý, CSc., ČVUT Praha, FEL
 prof. Ing. Vladimír Šály, Ph.D., STU Bratislava, FEI
 doc. Ing. at Ing. Radek Škoda, MSc., Ph.D., ZČU FEL
 Ing. Martin Škopek, Ph.D., Energy Consulting
 prof. Ing. Jan Škorpil, CSc., ZČU FEL
 doc. Ing. Václav Šmídl, Ph.D., ZČU FEL
 Ing. Jan Švec, Ph.D., ČVUT Praha, FEL

doc. Ing. Miloslava Tesařová, Ph.D., ZČU FEL
prof. Ing. Josef Tlustý, CSc., ČVUT Praha, FEL
doc. Ing. Petr Toman, Ph.D., VUT Brno, FEKT
doc. Ing. Pavel Trnka, Ph.D., ZČU FEL
prof. Ing. Viktor Valouch, CSc., AV ČR
doc. Ing. Michal Váry, Ph.D., STU Bratislava, FEI
prof. Ing. Zdeněk Vostracký, DrSc., ZČU FEL

Ing. Stanislav Votruba, ČEPS
Ing. František Vybíralík, CSc., ČEZ, a. s.
Ing. Jan Zdebor, CSc., ZČU FST
Ing. František Zeman, Ph.D., BRUSH SEM, s.r.o.
Ing. František Žák, Ph.D., Energetický regulační úřad
Ing. Petr Žák, Ph.D., Ateliér světelné techniky, s.r.o.

2 INTRODUCTORY INFORMATION ABOUT DOCTORAL STUDIES

Graduates of the corresponding master's degree programme have the opportunity to extend their knowledge in the doctoral study programme. This study represents the third, and highest qualification under the classification of higher education.

The doctoral study programme focuses on scientific research and independent creative activity in research or development. Graduates of doctoral study programmes are awarded the academic qualification "Doctor" (abbreviated to "**Ph.D.**" placed after the name).

The doctoral study programme can be either **full-time or part-time**. Study in the doctoral study programme follows the student's individual study plan with the guidance of a supervisor. The standard length of study is **four (4)** years. Study in the doctoral study programme is monitored and evaluated by the Doctoral Study Board.

The Doctoral study programme consists of two parts that can overlap in time, namely

- the formal study part culminating in the completion of the State doctoral examination, and
- the scientific and professional part focused on elaboration of the Dissertation and its defence.

The programme is completed by the State doctoral examination and a public defence of the Dissertation. The Dissertation defence proves the ability and readiness of the student for independent research activity or development or for independent theoretical and creative activity. The Dissertation must include original and also published results or results accepted for publication.

At UWB FEE, it is possible to achieve a Ph.D. in the study programme „Electrical Engineering and Informatics“ in branch of study:

- **Electrical Engineering**
- **Electronics**
- **Electrical Power Engineering**

At UWB FEE, all doctoral branches of study can be in either Czech or English.

(texts used from Act No. 111/98 Coll., on Higher Education, as amended on 1 January 2018, Article 47)

Educational goals of the study branch Electrical Power Engineering

The graduates show deep knowledge of generating, transmission and use of electric energy as well as of the issues of environment and electromagnetic compatibility. The graduates show deep knowledge of computer and information technology. They are capable of individual creative work on solving complex technical problems and interpretation of the results of their work. The graduates are proficient in spoken as well as written English. They prove their adaptability in scientific work and the capability of generalization.

Educational goals of the study branch Electronics

The graduates show deep knowledge of light-current electronics and telecommunications, power electronics, and electric drives controlled by modern means of light-current electronics. The graduates show deep knowledge of computer and information technology. They are capable of individual creative work on solving complex technical problems and interpretation of the results of their work. The graduates are proficient in spoken as well as written English. They prove their adaptability in scientific work and the capability of generalization.

Educational goals of the study branch Electrical Engineering

The graduates show deep knowledge of heavy-current electronics, constructional and project processes, testing, material engineering and diagnostics. The graduates show deep knowledge of computer and information technology. They are capable of individual creative work on solving complex technical problems and interpretation of the results of their work. The graduates are proficient in spoken as well as written English. They prove their adaptability in scientific work and the capability of generalization.

3 STUDENT'S SOCIAL AFFAIRS

3.1 Accommodation

At UWB, accommodation services for students are provided by UWB **Accommodation and Catering Services of UWB (SKM)**- <http://skm.zcu.cz> (in Czech language). Information on accommodation for doctoral students can be found at:

- Dormitory Bolevecká (L1, L2) – Ms.Ivana Bartoňová
- Dormitories Máchova, Baarova, Klatovská (B1, B2, B3, K1) – Ms.Ing. Dana Stanková and Ms. Dagmar Keglerová
- Dormitory Borská, (A1, A2, A3,) – Ms.Gabriela Vostracká

(<http://skm.zcu.cz/ubytovani-doktorandu.html>)

3.2 Catering

Every FEE student has the possibility to use the UWB catering services. Payment for meals is via a JIS card which each student is provided with. At present it is possible to have meals at two university canteens:

- University canteen 4, Univerzitní 12, Pilsen (on the campus)
- University canteen 1, Kollárova 19, Pilsen (in the city centre)

At UWB, catering services are provided by the **Accommodation and Catering Services of UWB (SKM)** - <http://skm.zcu.cz> (in Czech language). In addition, there are several cafés and bars on the campus.

3.3 Scholarships

All awarded scholarships shall be disbursed by a bank transfer made to an account owned by the student. For this purpose, students are obliged to input their bank account number in the electronic information system STAG.

In the case of a change of decisive factors concerning the award of a scholarship, the student shall send a written notification to the Study Office of the Faculty, or the Section of the Vice-Rector for Teaching and Learning, no later than 30 days after the occurrence thereof.

One-time paid scholarships shall be disbursed at the latest on the 15th day of the month following the month in which the decision on awarding a scholarship has come into force.

Monthly-paid scholarships shall be disbursed at the latest on the 15th day of the relevant month.

First-year students who meet the conditions for the award of an accommodation scholarship shall receive the proportional amount for the 3rd quarter of the calendar year no sooner than on the day the payment for the 4th quarter of the relevant calendar year is made.

(Scholarship regulations of the University of West Bohemia dated 11 April 2017 – čl.2, 8 – incomplete text)

3.3.1 Doctoral scholarship

Full-time doctoral students may be granted a scholarship awarded by the Dean of the Faculty. The amount thereof is determined based on a proposal made by the supervisor and the members of the Doctoral Study Board. Doctoral scholarships are awarded for a period of twelve months of the relevant academic year.

Depending on the study results achieved and on the fulfilment of individual study plan requirements, the Doctoral Study Board may, upon the supervisor's proposal, suggest that the Dean of the Faculty revokes the scholarship, or makes changes of the amount awarded.

The entitlement to be awarded a doctoral scholarship ceases to exist on the last day of the month in which a student interrupted the study programme, or changed the form of study.

(Scholarship regulations of the University of West Bohemia dated 11 April 2017 – Art. 5)

Students of doctoral study programmes in a full-time form of study receive a basic scholarship of 7,500 CZK per month for the standard length of study. After each examination passed (except for a foreign language examination), the basic amount is increased by 500 CZK, up to a maximum of 10,000 CZK. Upon successful completion of the State Doctoral Examination (SDE), the student receives a scholarship of 15,000 CZK per month.

If a doctoral student:

- fails to meet the deadlines of the Individual Study Plan,
- fails to successfully complete the State Doctoral Examination within 24 months of the commencement of his/her studies, or
- fails to successfully pass the State Doctoral Examination even on the date of a resit specified by the Dean,

the amount of his/her scholarships is reduced by 1,000 CZK for each non-fulfilled obligation.

(Dean's Decree No. 15D/2020 - Scholarships granted to students of Faculty of Electrical Engineering of University of West Bohemia in 2020/21 - Art. 3 – incomplete text)

3.3.2 Accommodation scholarships

An accommodation scholarship may be awarded to a student who:

- is a full-time student of an accredited bachelor's, master's or doctoral study programme provided at this university,
- is enrolled in his/her first accredited study programme, or is enrolled in a related accredited follow-up study programme (this condition is not met if the student is enrolled in other than an accredited follow-up study programme), or has transferred from one study programme to another and his/her previous studies have been recognized. In the case of concurrently attended study programmes, the student is considered to be enrolled only once, and that in the study programme in which he/she was enrolled first,
- has not exceeded the standard study period of the relevant study programme, or of the concurrently attended study programme,
- does not have permanent residence in the region in which he/she attends the study programme.

The fulfilment of conditions set out above shall be verified via the student register and IS/STAG.

The application for an accommodation scholarship shall be submitted electronically using a form issued for the purpose thereof.

The decision on awarding the accommodation scholarship shall be made by the Rector

The decision on awarding the accommodation scholarship shall be in force for the period the student meets the conditions set out above. No official decision stipulating the revocation of an accommodation scholarship is required.

The amount of the accommodation scholarship to be awarded for the relevant calendar trimester is stipulated by the Decision issued by the Rector no later than 10 days before the date of its payment.

A student who meets the conditions set out above only in part of the period for which the scholarship shall be paid, receives the proportional amount thereof.

(Scholarship regulations of the University of West Bohemia dated 11 April 2017 – Art. 6 – incomplete text)

The amount and date of the accommodation scholarship to be awarded for the relevant calendar trimester is stipulated by the Decision issued by the Rector.

Link for Application:

https://portal.zcu.cz/portal/ja/mujportal/index.html?pc_lang=en

3.3.3 Need-based scholarships

Pursuant to Art. 91(3) of the Act, need-based scholarships shall be awarded to students who qualify for increased child support according to a special regulation¹ provided that the relevant family income ascertained for the purpose of child support does not exceed the family subsistence level multiplied by a factor of 1.5. The student shall prove his/her entitlement to be awarded the scholarship by a written

confirmation issued on his/her request by a relevant state social support authority. The notification for the purpose of awarding the scholarship is valid for 21 months from the end of the quarter of the year for which the family income was ascertained. The student is entitled to be awarded the scholarship only once during a specific period of time, and shall submit a new confirmation at the latest one month after the expiration thereof; otherwise, his/her entitlement to the scholarship ceases to exist.

The application for a need-based scholarship shall be submitted electronically using a form issued for the purpose thereto.

A student is entitled to be awarded a need-based scholarship for each full calendar month during which he/she meets the conditions set out above. However, this entitlement does not apply during the months of July and August.

The decision on awarding a need-based scholarship shall be issued by the Rector. The Rector is not obliged to issue a decision on the revocation thereof.

The amount of a need-based scholarship to be awarded is stipulated by the appropriated Czech legal regulations. Act. In the case of changes concerning the amount of the need-based scholarship to be awarded, the Rector shall issue a new decision.

(Scholarship regulations of the University of West Bohemai dated 11 April 2017 – Art. 7 – incomplete text)

The scholarship is equivalent to one quarter of the minimum wage per month, which from 1 January 2020 is 3 650 CZK per month.

(<https://www.zcu.cz/pracoviste/ipc/studijni-poradenstvi/socialni-stipendium/>)

Link for Application:

https://portal.zcu.cz/portal/ja/mujportal/index.html?pc_lang=en

3.3.4 Extraordinary scholarships

The Dean of a Faculty, or the Rector, is entitled to award an extraordinary scholarship to students of bachelor's, master's, or doctoral study programmes.

An extraordinary scholarship shall be awarded on the basis of a duly reasoned application submitted by the student, a proposal of the relevant Department, or the Rector's or Dean's initiative.

(Scholarship regulations of the University of West Bohemai dated 11 April 2017 – Art. 4)

A student of a doctoral study programme in a full-time form can receive an extraordinary scholarship in support of his / her publishing activities. Extraordinary scholarships for FEE students are paid during the calendar year. A scholarship proposal may be submitted by the supervisor, the head of the department, the chairman of the doctoral study board or a member of the FEE management. For an extraordinary social scholarship, a doctoral student may also submit a proposal.

An extraordinary scholarship can be composed of two parts:

- a part depending of the quality of fulfilling the curriculum, other professional and extraordinary activities of a doctoral student within the department, faculty, UWB;
- a part determined on the basis of results of R&D activities of a doctoral student.

((Dean's Decree No. 15D/2020 - Scholarships granted to students of Faculty of Electrical Engineering of University of West Bohemia in 2019/20 - Art. 3 – incomplete text)

3.3.5 Rector's extraordinary scholarships

An extraordinary Rector's scholarship may be awarded to a student in a Bachelor, Master or Doctoral study programme following a well-presented logical request from the student or at the proposal of the relevant workplace or on the Rector's own initiative.

An extraordinary Rector's scholarship may be awarded to a student for the following reasons:

- gaining the Rector's Prize,
- representation of UWB in scientific, sport or cultural competitions, participation in promotional fairs and presentations,
- achieving prestigious results in research, development and innovation,
- serious social reasons – one-off financial assistance for a student with a difficult social situation (very serious financial problems, family or health reasons),
- a selfless act of civil bravery,
- other reasons worthy of special consideration.

Link for detailed information:

<https://www.zcu.cz/pracoviste/ipc/studijni-poradenstvi/mimoradne-stipendium-rektora/> (in czech)

Link for Application:

https://portal.zcu.cz/portal/ja/mujportal/index.html?pc_lang=en

4 ORGANIZATION AND MONITORING OF STUDY

The Vice-Dean for Research decides on matters pertaining to doctoral study, including scholarships.

4.1 Registration for the first and following years of study

Dates of registration for the first year of study are set out in the decision on admission; registration is organized by the Study Office. Registration for the following years of study is carried out according to the Dean's decision regarding continuation of study following the student's annual evaluation.

(Dean's Directive No. 2D/2019 On the implementation of the doctoral study programme, Art. 1 - incomplete text)

Students returning after an interruption of studies complete their registration in the course of the academic year; however, no later than within five days following the termination of the interruption of studies.

(Study and Examination Regulations of the University of West Bohemia Dated 13 July 2017 - Part three, Ch. V, Art. 78, incomplete text)

4.2 Study organization

A full-time doctoral study programme student is present at the training unit where he/she participates in both teaching and research activities, to the extent determined by the head of the unit.

The extent of the student's teaching and research activities is determined by the head of the unit in cooperation with the supervisor. The recommended number of lessons for full-time students is at least two lessons per week during a semester in the case of students in the first year, and at least four lessons per week during a semester for students in the following years.

(Dean's Directive No. 2D/2019 On the implementation of the doctoral study programme, Art. 1 - incomplete text)

4.3 Supervisor

The supervisor provides both specialist and organizational guidance for the student's studies. Based on the supervisor's approval, the student establishes his/her daily regime and holidays.

The supervisor guides the student in his/her work on the Dissertation and monitors his/her study obligations and their fulfillment.

The supervisor is entitled to participate in the student's examinations during his/her studies.

The Dean can, on the recommendation of the Doctoral Study Board, change the supervisor.

A supervisor must be a professor or an associate professor. Other specialists can only be supervisors if authorized by the Faculty Scientific Board.

(Study and Examination Regulations of the University of West Bohemia Dated 13 July 2017 - Part three, Ch. III, Art. 72 a 73 – incomplete text)

The list of supervisors is given in Chapter 1.3.9.

4.4 Consultant - specialist

For consultations on specific issues concerning the topic of the student's Dissertation, the Dean can, upon the supervisor's recommendation, appoint a leading specialist in the given field as a consulting specialist.

(Study and Examination Regulations of the University of West Bohemia Dated 13 July 2017 - Part three, Ch. III, Art. 74)

4.5 The Doctoral Study Board

The Doctoral Study Board controls and evaluates studies in the relevant doctoral study programme / branch of study. In particular, the Doctoral Study Board

- suggests changes to study programmes / branches of study,
- monitors and discusses students' scientific work,
- proposes supervisors and, through the Dean, submits their names together with their professional CVs to the Faculty Scientific Board for approval,
- discusses proposals for topics of doctoral theses and their supervisors and, through the Dean, submits them to the Faculty Scientific Board for approval,
- discusses and proposes to the Dean students' individual study plans and their modifications where necessary,
- defines the breadth and depth of the requirements for the State doctoral examination
- proposes to the Dean the members of the State doctoral examination committee and the date for holding the examination,
- proposes to the Dean members of the Dissertation defence committee and the date for holding the defence,
- proposes to the Dean members of the admissions committee, whose role is to decide on a candidate's admission to study in a doctoral study programme / branch of study.

The Doctoral Study Board has a minimum of five members. The Doctoral Study Board chair is the guarantor of the doctoral study programme.

The Doctoral Study Board meets at least once a year, by the end of September at the latest.

(Study and Examination Regulations of the University of West Bohemia Dated 13 July 2017 - Part three, Ch. II, Art. 68 – 71 – incomplete text)

4.6 Individual study plan, requirements on the individual study plan

Studies are based on an individual study plan. The study plan is proposed by the supervisor upon previous discussion with the student.

The individual study plan will be discussed by the Doctoral Study Board and then approved by the Dean, usually by the end of October of the year in which a student has been registered for study. A similar procedure is applied to the approval of any changes to the individual study plan in the following years.

(Study and Examination Regulations of the University of West Bohemia Dated 13 July 2017 - Part three, Ch. IV, Art. 75 - 77, 85 - incomplete text)

Students of the doctoral study programme must choose five courses of a theoretical and specialist character, of which a maximum of three courses can be specialist courses.

English language is the obligatory language in the doctoral study programme. Language skills are usually demonstrated through an English language examination at FEE or the UWB Institute of Applied Language Studies. Other possibilities of proving language skills must be approved by the FEE Doctoral Study Board.

Within the framework of the doctoral study, students are obliged to publically publish the original results of their Dissertation. All the following requirements must be met:

- Publication must be in a journal with impact rating – every student of the doctoral study programme must have at least one publication in a journal with an impact factor according to the Web of Science by the time an application is submitted for defence of the Dissertation. The following conditions must be met:
 - o the topic of the published article must be relevant to the topic of the Dissertation
 - o the student on the doctoral study programme must have a majority share in the published article – the majority share means being stated as the first or second author in the list of authors of that article,
 - o the article must be published or have the confirmed status "accepted for publication"

and/or be the inventor or co-inventor of a patent.

Publications in conference proceedings – each student on the doctoral study programme must have at least three articles published in the proceedings of international conferences which are stored on the database of the Web of Science, Scopus, IEEE or ERIH, and the following conditions must be met:

- the topic of the published article must be consistent with the topic of the Dissertation, in the case of articles with multiple authors, the Art. is calculated by proportional part and as an ideal the student should have a co-authorial share,
- the supervisor and the consulting specialist are not considered as co-authors,

and/or be the inventor or co-inventor of the utility model.

- Other publishing activities – the number of other publications is not limited; their quality and quantity is taken into account in the overall student evaluation during the State doctoral examination and defence of the Dissertation.

The international dimension of studies is demonstrated by a doctoral student as follows:

- by a minimum stay of three months (a one-month stay in the case of part-time students) at a university or research center or workplace whose professional activity is in accordance with the Dissertation topic; or
- by a documented work in an international team of at least 6 months. The work in an international team of researchers is proven, e.g. by orders for business trips, demonstrable joint work results, etc

In exceptional cases, the Dean may, following a proposal from the FEE Doctoral Study Board, decide on another manner of meeting or proving the requirements.

(Dean's Directive No. 2D/2019 On the implementation of the doctoral study programme, Art. 2 - incomplete text)

Template of Individual study plan:

<http://fel.zcu.cz/en/study/doctoral/isp/>

Subject anotations – see attachment 1

4.7 Examinations

A specialist examination (or resit) is conducted by the teacher of the specialist course, unless the Dean appoints an examination committee. The specialist examination is open to the public.

The examiner or examination committee member must be a leading specialist with academic titles including PhD, who actively conducts research in the relevant field.

Following a consultation with the student, the date for taking a specialist course examination (or resit) is set by the examiner or the chair of the examination committee.

If the student fails the specialist examination, he/she can take the first resit. If the student fails his/her resit, the Dean, based on the recommendation of the supervisor and Doctoral Study Board, can grant the student's application and allow for a second resit, which takes place in front of an examination committee proposed by the Doctoral Study Board and appointed by the Dean.

(Study and Examination Regulations of the University of West Bohemia Dated 13 July 2017 - Part three, Ch. VI, Art. 81 - 83)

4.8 Assessment of the examination (resit)

The result of the specialist examination (resit) is assessed by the examiner(s) with the grades: "Passed", "Failed".

The result of the examination (resit) is recorded by the examiner in the student record book together with the date and signature. If the examination (resit) took place in front of a committee, signatures of all its members must be entered in the examination protocol. The assessment of the examination (resit) with the result "Failed" is not recorded in the student record book. The Dean can decide whether an official copy of an entry in a student record book verified by the faculty will be considered a student record book.

Based on the recommendation of the supervisor and Doctoral Study Board, the Dean can grant an application for recognition of an examination taken during previous doctoral studies at UWB or another higher education institution.

(Study and Examination Regulations of the University of West Bohemia Dated 13 July 2017 - Part three, Ch. VI, Art. 84)

Completion of theoretical and professional courses must be evidenced by a record in the student record book plus a record of the course examinations taken. The record of the course examinations must be submitted by the student to the Study Office within three working days of the examination being taken.

(Dean's Directive No. 2D/2019 On the implementation of the doctoral study programme, Art. 1 - incomplete text)

Template of Registration of the Course Examination:

<http://fel.zcu.cz/en/study/doctoral/isp/>

4.9 Electrical Engineering and Informatics Conference

Doctoral students regularly take part in the Electrical Engineering and Informatics Conference organized by FEE of the University of West Bohemia; the conference serves to present and evaluate the state of scientific and research activities in doctoral study programmes. Active participation is mandatory for students in the second and third years of study; for students in other years of study, participation is recommended. Non-participation in this conference may be taken into account in the annual evaluation of the student.

(Dean's Directive No. 2D/2019 On the implementation of the doctoral study programme, Art. 1 - incomplete text)

The conference is usually held between October and November at the training centre of the University of West Bohemia at Nečtiny castle. Details on the structure of presented papers, organization of the conference, the date and conference fee can be found on the conference website.

Conference webpages (in Czech language):

<https://ei.fel.zcu.cz>

4.10 Annual Report

Within 15 days following the end of every academic year at the latest, the supervisor delivers his/her annual evaluation of a student to the Doctoral Study Board.

The Doctoral Study Board then discusses this evaluation and proposes to the Dean:

- the Doctoral Study Board then discusses this evaluation and proposes to the Dean,
- the continuation of studies with some changes to the individual study plan, or
- the termination of studies.

The Dean considers the proposal of the Doctoral Study Board and decides on either the continuation or termination of studies.

(Study and Examination Regulations of the University of West Bohemia Dated 13 July 2017 - Part three, Ch. VI, Art. 86)

Template of Annual Report

<http://fel.zcu.cz/en/study/doctoral/isp/>

4.11 Change of the form of the study, interruption of the study

The Dean can grant a student's application for a change in the student's form of study. Before considering the application, the Dean will request the opinion of the supervisor.

The Dean can grant a student's application for the interruption of studies. Before considering the application, the Dean will request the opinion of the supervisor.

The student's studies can be interrupted repeatedly. The total duration of all interruptions within a given study programme / branch of study must not exceed 24 months, unless the Dean decides otherwise.

The student is entitled to have his/her studies interrupted for reasons of pregnancy, childbirth and parental leave. This applies to the whole period of parental leave, even in case of children placed in the substitute custody of the student under the decision of a relevant administrative entity pursuant to the Civil Code or the legislation governing state social support. The interruption of studies is not included either in the total duration of interruption of studies or in the maximum duration of study.

The duration of interruption of studies is not included in the deadline for applying for admission to the Dissertation defence.

(Study and Examination Regulations of the University of West Bohemia Dated 13 July 2017 - Part three, Ch. VII, Art. 87 - 89, incomplete text)

Template of Application form:

<http://fel.zcu.cz/en/study/doctoral/isp/>

4.12 Internship training

Students in a doctoral study programme may organize a foreign visit in cooperation with their supervisor. It is the duty of each student to inform the Study Office at UWB FEE about any foreign visit before their departure. After returning from a foreign visit, the doctoral student provides the FEE UWB Study Office and his/her supervisor with a copy of the report from the person responsible for the student's activities at the receiving institution regarding the results of his/her work and the overall progress and evaluation of the visit.

Students must contact the FEE Study Office regarding when they need to contact the ECTS coordinator at the FEE at the University of West Bohemia.

(Vice-Dean's Decree No. 3PD/2019 – On implementing study visits, internships and practical training of FEE students – incomplete text)

4.13 Dual supervision

Study in the doctoral study programme may also include cooperation with a foreign university. The conditions are determined following an agreement between the participating universities. These conditions must be in accordance with the legislation of the country and the internal regulations of the higher education institution where the study takes place.

4.14 Graduation

A student who has passed the State doctoral examination and successfully defended his/her Dissertation has duly completed his/her studies.

The Dean decides to terminate a student's studies due to his/her failure to meet the requirements arising from the study programme / branch of study, if the student:

- has failed to pass an examination in a specialist course prescribed by the study programme / branch of study even at the second resit granted to the student by the Dean,
- has failed to pass the State doctoral examination even at the second attempt,
- has failed to apply for admission to the Dissertation defence within the period pursuant to Art. 104, Section 2, or has failed to apply for admission to the resit of the Dissertation defence in the period,
- has failed to successfully defend his/her Dissertation even at the second attempt.

If the Dean, based on the student's annual evaluation, does not give his/her consent to the continuation of the student's studies, the Dean decides to terminate the student's studies due to the student's failure to meet the requirements stated in the relevant study programme /field of study. The date of termination of studies due to failure to meet requirements is the date on which the Decision on Termination becomes legally effective.

A student who decides to terminate his/her studies will inform the Dean about this in writing through the faculty's Study Office. This can be done at any stage of study.

(Study and Examination Regulations of the University of West Bohemia Dated 13 July 2017 - Part three, Ch. X, Art. 113 a 114 – incomplete text)

After successful defence of the Dissertation, the graduate delivers, a form indicating completion of the student's obligations to the Study Office. The graduate is then sent to the address given in the application form for thesis defence, for the document confirming the title of Ph.D. Graduates who remain in employment at UWB must take a copy of this document to the UWB Human Resources Department.

4.15 Graduation ceremony

Graduates receive their Ph.D diploma at the graduation ceremony. In justified cases, it is possible to collect this diploma from the Study Office, possibly even before the graduation ceremony has taken place.

The graduation ceremony for doctoral graduates is perceived as an official social event and is usually held once a year. Graduates participating in the ceremony must wear appropriate clothing and academic gowns which are lent to them for this event by the Faculty. Graduates are notified of the graduation ceremony date by means of a personal e-mail sent to the address stated on the application for the Dissertation defence.

4.16 Disciplinary transgression

A disciplinary transgression is a culpable violation of duties stipulated by legal regulations or internal regulations of UWB or its faculties. Disciplinary powers over students are vested in the Dean. The decision to impose penalties on students for committing disciplinary transgressions is made by the Dean upon the recommendation of the Disciplinary Committee.

(Disciplinary Regulations for students of the Faculty of Electrical Engineering of the University of West Bohemia
– incomplete text)

Link for details:

https://fel.zcu.cz/en/documents/disciplinarni_komise_legislativa/Disciplinarni_rad_FEL_EN.pdf

5 THE STATE DOCTORAL EXAMINATION

The State doctoral examination (hereinafter also referred to as SDE) serves to verify the student's knowledge in the field of study. The student must demonstrate profound professional and theoretical knowledge, proficiency in methods of independent scientific work and application of new knowledge. Knowledge requirements are based on the student's individual study plan. Part of the State doctoral examination is defence of the Doctoral thesis which the student submits in writing and is assessed by an opponent appointed by the Dean.

5.1 Application for the State doctoral examination

The student submits his/her application for admission to the State doctoral examination after:

- completing all courses
- demonstrating good command of a foreign language and
- fulfilling all the obligations given by his/her individual study plan.

(Study and Examination Regulations of the University of West Bohemia Dated 13 July 2017 - Part three, Ch. VII, Art. 92, incomplete text)

Application for the State doctoral examination must be submitted by the student to the Study Office.

The application for SDE must be signed by the student and the supervisor. Together with the application for SDE, students must attach the following:

- the Doctoral thesis,
- structured professional curriculum vitae (also used during the initial introduction of the student),
- summary of publishing activities exported from OBD and certified by the supervisor and
- Study report.

The supervisor must attach the following to the application for SDE:

- a proposal of the Examination Board for the State doctoral examination and a proposal for an opponent (or opponents) for the Doctoral thesis,
- the Supervisor's report on the student's scientific activities.

(Dean's Directive No. 2D/2019 On the implementation of the doctoral study programme, Art. 3 - incomplete text)

Template of Application for the State Doctoral Examination, Template of Doctoral thesis, Template of Proposal of the Examination Board for the State Doctoral Examination, Template of Supervisor's report on the student's scientific activities:

<https://fel.zcu.cz/en/study/doctoral/sdz/>

5.2 Doctoral thesis

The Doctoral thesis is a brief and well-organised document of about 30 to 40 pages, which includes the following:

- an analysis of the current state surrounding the issues considered in the Dissertation,
- the Dissertation objectives,
- a description of the results achieved by the doctoral student demonstrating his/her abilities to successfully complete the Dissertation,
- directions for further investigation during completion of the Dissertation, including a proposal for the methodology,
- a timetable for work on the Dissertation, and
- a list of the student's publications related to the content and topic of the Dissertation.

(Dean's Directive No. 2D/2019 On the implementation of the doctoral study programme, Art. 3 - incomplete text)

Template of Doctoral thesis:

<https://fel.zcu.cz/en/study/doctoral/sdz/>

5.3 Examination Board for the State doctoral examination

The State doctoral examination is held in front of Examination Board for the SDE (SDE board, Board) committee which is appointed by the Dean. However, the supervisor has the right to attend the Board's final discussion. For a quorum, more than one half (at least four) of the members of the SDE board, including the chair or the vice-chair, must be present at the state doctoral examination.

(Study and Examination Regulations of the University of West Bohemia Dated 13 July 2017 - Part three, Ch. VII, Art. 91 – incomplete text)

The SDE board consists of at least seven members.

The SDE board members include the opponent/s and other persons who must be selected from a list of experts approved by the FEE Scientific Board for examining at SDE.

All members of the SDE board must be active in the same field or a related field in which the Doctoral study programme is concentrated.

Members of the SDE board must be professors, associate professors, Doctor of Science or prominent experts from the appropriate sphere.

One member of the SDE board must be a member of the FEE Doctoral Study Board (usually the chair or vice-chair).

A maximum of three members of the Board may be from the student's training workplace. At least two Board members must be from outside UWB FEE, of which at least one Board member must be outside the UWB academic community.

The supervisor, the consulting specialist, a former supervisor or a former consulting specialist may not be members of the SDE board.

(Dean's Directive No. 2D/2019 On the implementation of the doctoral study programme, Art. 4 - incomplete text)

The list of staff members for SDE board is presented in Chapter 1.2.7.

Template of Proposal of the Examination Board for the State Doctoral Examination:

<https://fel.zcu.cz/en/study/doctoral/sdz/>

5.4 Evaluation of Application for the State doctoral examination

The Study Office will check the completeness of the application and its annexes. In the event of deficiencies, the application will be returned and viewed as not filed. Otherwise, the application is submitted to the guarantor of the field of study and further to the FEE Doctoral Study Board for discussion.

The study field guarantor assesses the completeness of the requirements of the Doctoral thesis.

The meeting of FEE Doctoral Study Board is usually planned between 20 August and 10 June the following year. The Doctoral Study Board assesses whether the student has fulfilled all the conditions for the State doctoral examination. In the case of a positive conclusion, the Doctoral Study Board proposes to the Dean a date for the State doctoral examination, the members of the SDE board and the opponent for evaluation of the Doctoral thesis. In the case of a negative conclusion, the Doctoral Study Board proposes to the Dean that he/she refuses the application for the State doctoral examination.

In the event of a positive recommendation by the FEE Doctoral Study Board, the Dean appoints, according to the proposal of the FEE Doctoral Study Board, an SDE board and an opponent (or opponents) for the assessment of the Doctoral thesis. The Dean may also comment during the State doctoral examination itself. In the case of a negative opinion, the Dean also informs both the Chair of the Doctoral Study Board and the supervisor of this fact.

(Study and Examination Regulations of the University of West Bohemia Dated 13 July 2017 - Part three, Ch. VII, Art. 93, Dean's Directive No. 2D/2019 On the implementation of the doctoral study programme, Art. 3 - incomplete text)

5.5 Assessment of the Doctoral thesis

Upon the appointment of an opponent (or opponents), the Study Office provides the opponent/s with the Doctoral thesis so that they can formulate their evaluation. In their evaluation, the opponent/s focus/es, in particular, on the following

- the relevance and dissertability of the Dissertation topic,
- selection of the Dissertation objectives,
- choice of sources of information and selected research or development methodologies,
- the student's professional results achieved in relation to the Dissertation,
- the feasibility of the timetable for work on the Dissertation which should lead to completion of the doctoral study,
- the quality of the student's publications and other activities.

(Dean's Directive No. 2D/2019 On the implementation of the doctoral study programme, Art. 3 - incomplete text)

Template of Assessment of the Doctoral Thesis:

<https://fel.zcu.cz/cz/study/doctoral/sdz/>

5.6 Date of the State doctoral examination

If the Dean decides that the State doctoral examination should be held, he/she will set a date within four months following the student's submission of his/her application for admission to this examination.

Students can withdraw from the State doctoral examination three working days before the exam takes place, at the latest. If students fail to take the State doctoral examination and do not provide a legitimate excuse, if their excuse is not accepted, if they withdraw from the examination after it has started or if they breach the examination rules in a serious manner, they receive the "Failed" grade.

(Study and Examination Regulations of the University of West Bohemia Dated 13 July 2017 - Part three, Ch. VII, Art. 94)

5.7 Procedure of the State doctoral examination

The State doctoral examination, as well as the announcement of its result, is open to the public; however, the SDE board chair may decline access to individuals who, it is believed, might disrupt the examination. The final meeting of the SDE board regarding the result of the examination is closed to the public.

The course of the State doctoral examination and its result are entered in a report.

(Study and Examination Regulations of the University of West Bohemia Dated 13 July 2017 - Part three, Ch. VII, Art. 95)

During SDE, the SDE board is assessing:

- the knowledge and skills required of the doctoral student for successful completion of these studies,
- completion of the first stage of the individual study plan,
- the Doctoral thesis and objectives based on the opponent's point of view regarding dissertability, relevance, stage of development and time feasibility,
- the quality and quantity of the student's publication outputs and other activities.

The procedure of SDE is led by the chair; in his/her absence, by the vice-chair of the SDE board.

The general course of SDE is as follows:

- opening the session by the chair or vice-chair of the SDE board,
- introduction of the student by the supervisor,
- presentation of the Doctoral thesis by the student – the student gives the title and objectives of the Dissertation, briefly presents the results achieved, states the directions and methods of further investigation leading to completion of the Dissertation and defines the timetable for completion (usually ten minutes in total),
- reading the evaluation/s by the opponent/s or an authorized member of the committee,
- discussion of the Doctoral thesis: in this part, the opponent's questions should be answered, then the questions of the other members of the SDE board and the questions of any guests

- (usually twenty minutes; a the longer discussion does not shorten the following parts, but prolongs the duration of SDE),
- verification of the student's theoretical knowledge: questions are asked relating to the courses that the student has taken during the doctoral studies and possibly also relating to other areas pertinent to the field of study. This part of the SDE ends when the SDE board is able to agree on the student's level of theoretical knowledge,
 - non-public part of the SDE board's session including a public vote on the SDE result; completion of the protocol,
 - public part of the SDE board session – familiarization of the student with the result of the SDE and the protocol by the SDE board chair,
 - termination of the session and archiving of the original protocol in the Study Office by the chair or vice-chair of the SDE board,
 - record in the study report and a copy of the session protocol given to the student and the supervisor by the chair or vice-chair of the SDE board.
 - In the non-public part of the session involving the SDE board, the current course of the SDZ is evaluated. In particular, the SDE board considers the following points:
 - o whether the doctoral student has a sufficient level of knowledge and skills for successfully completing the doctoral study programme,
 - o whether the topic of the Dissertation is dissertative, topical and belongs within the field of the doctoral study programme,
 - o whether the submitted timetable for preparation of the Dissertation is realistic and thus a prerequisite for timely and successful completion of studies, and
 - o whether the present publication and professional activity of the doctoral student is at the appropriate level.

A recommendation to update the individual study plan or to modify the objectives of the Dissertation may be part of the evaluation of the SDE board.

(Dean's Directive No. 2D/2019 On the implementation of the doctoral study programme, Art. 5 - incomplete text)

5.8 Evaluation of the State doctoral examination

The state SDE board evaluates the candidate's performance in terms of two grades, "Passed" or "Failed". The evaluation is based on an open vote at a closed meeting on the day of the State doctoral examination; the result is announced to the student immediately after this meeting. For granting the "Passed" grade, a majority of positive votes from members of the SDE board present must be obtained.

The SDE board also evaluates the submitted Dissertation proposal and gives comments on how the candidate should proceed with his/her work on the Dissertation.

An evaluation of the State doctoral examination with the grade "Passed" is entered by the SDE board chair or vice-chair in the student record book together with a date and signature.

(Study and Examination Regulations of the University of West Bohemia Dated 13 July 2017 - Part three, Ch. VII, Art. 96)

5.9 Results of the State doctoral examination

If the candidate's performance is satisfactory and he/she receives a "Passed" grade, the student receives a certificate within 30 days.

If the candidate's performance is unsatisfactory and he/she receives a "Failed" grade, the chair or the vice-chair of the SDE board informs the student about the requirements for the examination resit. The State doctoral examination can be re-taken only once.

(Study and Examination Regulations of the University of West Bohemia Dated 13 July 2017 - Part three, Ch. VII, Art. 97)

6 DISSERTATION AND DISSERTATION DEFENCE

6.1 Application for a Dissertation defence

A student is allowed to submit his/her application for a Dissertation defence after successful completion of the State doctoral examination. The application must be submitted within six years from registering for studies. In justified cases and with the consent of the Doctoral Study Board, the Dean may extend this period; however, for a maximum of seven years following the registration.

(Study and Examination Regulations of the University of West Bohemia Dated 13 July 2017 - Part three, Ch. IX, Art. 104 – incomplete text)

An application for defence of a Dissertation should be submitted by the student to the Study Office. The application for Dissertation defence must be signed by the student and the supervisor. The student must include with the application for defence of the Dissertation the following:

- three bound copies of the Dissertation
- 15 printed copies of the Summary of the Dissertation,
- a certificate of completion of the State doctoral examination
- structured professional curriculum vitae (also used during the introductory presentation of the student at the defence proceedings),
- a list of all published and unpublished works, all presentations at scientific meetings confirmed by the supervisor and, in a separate paragraph, activities from during the course of studies,
- proof of entering data from the Dissertation into IS/STAG,
- an affidavit obtained from IS/STAG that the content of the electronic version in IS/STAG is identical to the printed version,
- Study report.

The application for the Dissertation defence must also include an electronic version of the Summary of the Dissertation in the form of a PDF file sent by e-mail to the address of the Study coordinator for the doctoral study before submitting any printed documents.

The supervisor must attach to the application for the Dissertation defence a proposal for the Board for defence of the Dissertation and a proposal for the Dissertation opponents.

(Dean's Directive No. 2D/2019 On the implementation of the doctoral study programme, Art. 6 - incomplete text)

Template of Application for Defence of the Dissertation, template of Proposal of Board for Defence of the Dissertation:

<https://fel.zcu.cz/en/study/doctoral/ddp/>

6.2 Dissertation

The recommended number of pages for a dissertation is 80 to 100; the Dissertation must include the following:

- introduction with a rationale for the Dissertation topic,
 - affidavit on the preservation of accepted practice in scientific work,
 - theoretical background, including the current state of knowledge in Czech and foreign contexts,
 - the Dissertation objectives and working hypotheses,
 - scientific methods used,
 - the results of the Dissertation, including the original results and the student's published results from the research or the results obtained for publication,
 - contribution made by the Dissertation,
 - recommendations for any further work in the research,
 - a conclusion summarizing the main results of the research,
 - Summary of the Dissertation in Czech, English and usually also in another world language,
 - bibliography,
 - a list of the student's published work and their possible outcomes,
- if the Dissertation was developed as part of a larger research project undertaken by a research team, it must include a statement by the main project researcher or the project researchers that the student is the sole author of the part of the research work that he/she is submitting, including the percentage of the student share in the whole project.

(Dean's Directive No. 2D/2019 On the implementation of the doctoral study programme, Art. 6 - incomplete text)

The Dissertation is written in the language in which a given doctoral programme is accredited and offered. The Doctoral Study Board may permit the writing of the Dissertation in a different language.

(Study and Examination Regulations of the University of West Bohemia Dated 13 July 2017 - Part three, Ch. IX, Art. 98 a 99 – incomplete text)

Template of the Dissertation:

<https://fel.zcu.cz/en/study/doctoral/ddp/>

6.3 Summary of the Dissertation

The purpose of a Summary of the Dissertation is to inform the specialist public about the key results of the dissertation.

The Summary provides a summary of the key points of the Dissertation structured.

The Summary is written in the language of the Dissertation. There is a one-page abstract in Czech, English and possibly also in another world language.

(Study and Examination Regulations of the University of West Bohemia Dated 13 July 2017 - Part three, Ch. IX, Art. 105)

The Summary of the Dissertation has a maximum of 20 pages.

(Dean's Directive No. 2D/2019 On the implementation of the doctoral study programme, Art. 6 - incomplete text)

Template of The Summary of the Dissertation:

<https://fel.zcu.cz/en/study/doctoral/ddp/>

6.4 Publication of Theses

Pursuant to Act No. 111/1998 Sb., on Higher Education Institutions, as amended, (hereinafter referred to as the "Act"), to the Intellectual Property Act and to the regulations governing the obligations of UWB related to data disclosure, UWB shall publish the thesis with reports and records on the course and results of the defence via the thesis database. Furthermore, the Bachelor, Master and Dissertation theses shall include the supervisor's report. Pursuant to Section 47(b) of the Act, thesis database (hereinafter referred to as the "database") refers to the study information system agenda (hereinafter referred to as "IS/STAG") accessible on the website <http://portal.zcu.cz>.

Firstly, the student shall log in on the website <http://portal.zcu.cz>, go to the menu "My Study" and open the sub-menu "Final Thesis". He/she shall then fill in the form "Data Completion" and upload the thesis in PDF format.

Once the student fills in the form and uploads the thesis, he/she shall print out the form "Final Thesis Data" and sign the document to confirm the accuracy of the data and the conformity of the electronic and paper versions of the thesis.

On the set deadline, the student shall submit the thesis in a paper form and in a duplicate, unless the Dean of the Faculty stipulates a higher number of copies by issuing an internal rule, to the Guarantee Department, together with the signed form "Final Thesis Data". This form shall be filed by the Guarantee Department.

Subsequently, the thesis shall be checked via the anti-plagiarism system Theses.cz. Based on the results thereof, the supervisor indicates the "Similarity Assessment"

The Guarantee Department shall hand over the successfully defended Dissertation in paper form to the University library immediately after their defence.

(Rector's Directive No. 33R/2017 – Publication of Theses - incomplete text)

As soon as the End-Of-Study Thesis (Dissertation) is verified by the Theses.cz system, the supervisor will immediately check the result of verification and incorporate the results into the assessment of the End-of-Study Thesis. Depending on the results of verification, the supervisor may mark the thesis with a sign of similarity assessment for the given End-of-Study Thesis. The options "Assessed" and "Assessed – Suspicious Match" are available. In the event that the supervisor marks the End-of-Study

Thesis with the sign "Assessed – Suspicious Match", he/she will not recommend it for defence due to the match and informs the head of the relevant department about this fact.

The head of the relevant department, in accordance with the Disciplinary Rules of the Faculty, recommends the Dean of the Faculty to initiate disciplinary proceedings. The disciplinary proceedings will be held on the basis of a proposal by the Dean and the defence procedure will be suspended until the decision from the disciplinary proceedings becomes effective. Once the Dean's decision to impose a sanction in the disciplinary proceedings enters into effect, the head of the department marks the End-of-Study Thesis in the system as Plagiarism.

(Dean's Instruction No. 6D/2017 - Procedure for Verifying the Originality of End-of-Study Theses - incomplete text)

6.5 Opponents of the Dissertation

The Dissertation must have at least two opponents.

An opponent of the Dissertation may be a professor or an associate professor. In exceptional cases, an opponent may also be a prominent expert approved by the FEE Doctoral Study Board. At least two opponents must be from outside the UWB academic community. At least two opponents must be professors or associate professors.

If a specialist from the applied sphere is proposed as an opponent, there must be some justification for the choice. The Dean may request his/her CV or a list of publications or other professional activities.

(Dean's Directive No. 2D/2019 On the implementation of the doctoral study programme, Art. 7 - incomplete text)

The supervisor or consultant specialist cannot become an opponent.

(Study and Examination Regulations of the University of West Bohemia Dated 13 July 2017 - Part three, Ch. IX, Art. 103 – incomplete text)

6.6 Board for defence of the Dissertation

Board for defence of the Dissertation (hereinafter referred to as "Board") has at least seven members and eleven members at the most.

The members of the Board are opponents and other persons who must be selected from the list of Dissertation defence experts approved by the FEE Scientific Board.

All members of the Board must be active in the field or related fields of the doctoral study programme.

The Board consists of the chair, the vice-chair and other members. The chair or vice-chair must be a member of the UWB academic community.

Other members of the Board are professors, associate professors and specialists from the applied sphere selected from a list of members for the Dissertation defence, which is approved by the FEE Scientific Board.

At least half of the Board members must be from outside the UWB academic community.

At least half of the Board members must be professors or associate professors.

If a specialist from the applied sphere is an opponent, there must be justification for the choice of this specialist. The Dean may request his/her CV or list of publications or other professional activities.

The supervisor, the consulting specialist, a former supervisor or a former consulting specialist may not be a member of the Board.

(Dean's Directive No. 2D/2019 On the implementation of the doctoral study programme, Art. 8 - incomplete text)

The list of members for Board for defence of the Dissertation is presented in Chapter 1.2.7.

Template of Proposal of Board for Defence of the Dissertation:

<https://fel.zcu.cz/en/study/doctoral/ddp/>

6.7 Evaluation of Application for Dissertation defence

The Study Office will check the completeness of the application and its annexes. In the event of any deficiencies, the application will be returned and viewed as not filed. Otherwise, it is submitted to the study field guarantor and then to the FEE Doctoral Study Board for discussion.

The study field guarantor assesses if the requirements of the Dissertation have been met.

The FEE Doctoral Study Board discusses the proposals made by the Board for defence of the Dissertation and the opponents at their next session, which is usually scheduled between 20 August and 10 June. In the case of a recommendation by the FEE Doctoral Study Board, the FEE Dean appoints, based on the proposal of the FEE Doctoral Study Board, the Board for defence of the Dissertation.

The Dean's decision on the Board for defence of the Dissertation and the opponents for assessment of the Dissertation is delivered to the chairperson of the FEE Doctoral Study Board and the supervisor.

Upon the appointment of the opponents, the Study Office provides the opponents with a copy of the Dissertation for preparation of their assessment.

The study program guarantor carries out a formal check of the assessments, as to whether they contain the particulars pursuant to Art. 107 (2) of the UWB Study and Examination Regulations. If deficiencies are found, the evaluation is returned to the opponent for revision. The opponent must return the revised evaluation within 15 days of the date of receipt of the revision request.

The chair of the Doctoral Study Board proposes the date and place of the defence immediately after receiving the opponents' reports.

The Dean then informs all the members of the Board for defence of the Dissertation, the supervisor and the student about the defence and invites them to the defence at least twenty days before it takes place. Together with the invitation, everybody receives the opponents' reports and the synopsis.

At least fourteen days before the defence takes place, the Dissertation and opponents' reports are made public at a place specified in the Summary of the Dissertation; at the Study Office of the faculty, as a rule.

(Study and Examination Regulations of the University of West Bohemia Dated 13 July 2017 - Part three, Ch. IX, Art. 106, 108, Dean's Directive No. 2D/2019 On the implementation of the doctoral study programme, Art. 6 - incomplete text)

6.8 Assessment of the Dissertation by the opponent

The opponent is obliged to write an independent assessment on the Dissertation within one month following the delivery of the letter of his/her appointment as an opponent. If he/she is unable to do so, he/she must report this fact within ten days following the delivery of the appointment letter. It is not acceptable for any opponent to replace his/her report with a statement that he/she shares the opinion expressed in another opponent's report.

The opponent's report contains:

- an evaluation of the contribution of the Dissertation to the relevant field of study,
- his/her opinion on the problem-solving procedure used, methods applied and achievement of the defined objectives,
- his/her opinion on the results of the Dissertation and the specific original contribution of the author of the Dissertation,
- comments on the systematic approach, clarity, layout, language and other formal aspects of the Dissertation,
- comments on the student's publications,
- an unambiguous statement from the opponent stating whether he/she does or does not recommend the Dissertation for defence.

(Study and Examination Regulations of the University of West Bohemia Dated 13 July 2017 - Part three, Ch. IX, Art. 107 – incomplete text)

Template of Assessment of the Dissertation:

<https://fel.zcu.cz/en/study/doctoral/ddp/>

6.9 Withdrawal from the Dissertation defence

Students can withdraw from the defence three working days before the defence takes place, at the latest. If students fail to attend the defence and do not provide a legitimate excuse, if their excuse is not accepted, if they withdraw from the defence after it has started or if they breach the defence rules in a serious manner, they receive the “Failed” grade.

(Study and Examination Regulations of the University of West Bohemia Dated 13 July 2017 - Part three, Ch. IX, Art. 109)

6.10 Procedure of Dissertation defence

The defence of the Dissertation is led by the chair and, in his/her absence, by the vice-chair of the Board for defence of the Dissertation.

The supervisor or his/her representative nominated by the Doctoral Study Board is obliged to take part in the defence.

The defence as well as the announcement of its result are open to the public; however, the chair may decline access to individuals who, it is believed, may disrupt the defence. The final meeting of the Board for defence of the Dissertation regarding the result of the defence is closed to the public. In addition to the Board for defence of the Dissertation members, the supervisor (or his/her representative nominated by the Doctoral Study Board), the chair of the Doctoral Study Board, the Dean and the administrative officer of the faculty's study department may also participate in the final meeting of the Board for defence of the Dissertation.

A record is made of the course of the Dissertation defence and of its result.

(Study and Examination Regulations of the University of West Bohemia Dated 13 July 2017 - Part three, Ch. IX, Art. 110)

The recommended length of the Dissertation defence is usually 90 minutes; 20 minutes is normally intended for presentation of the Dissertation results by the student.

In the case of contradictory and negative opinions, it is necessary to provide detailed justification of a successfully defended Dissertation in the minutes of the defence.

(Dean's Directive No. 2D/2019 On the implementation of the doctoral study programme, Art. 9 - incomplete text)

6.11 Evaluation of Dissertation defence

The Board for defence of the Dissertation evaluates the defence with one of two grades: “Passed” or “Failed”. The evaluation is based on a secret vote at a closed meeting on the day of the defence; the result is announced to the student immediately after this meeting. For granting the “Passed” grade, a majority of positive votes from members of the defence committee present is necessary. The grade granted is entered by the chair into a protocol together with the date and his/her signature. The chair of the Board immediately informs the Dean about the result of the defence and the Dean communicates the result of the defence to the Faculty Scientific Board at its next meeting. After the defence, the Dissertation, including a record of the course of the defence, its result and Assessment of the Dissertation by opponents, is transferred to the UWB University library.

(Study and Examination Regulations of the University of West Bohemia Dated 13 July 2017 - Part three, Ch. IX, Art. 111)

6.12 Procedure Following an unsuccessful defence

If a student fails to defend his/her Dissertation at the first attempt, the candidate is obliged to apply for the next attempt no sooner than six months and no later than one year following the date of the unsuccessful defence. The defence can be repeated only once.

The Examination Board for the defence of the Dissertation decides whether revising the Dissertation is a condition for repeating the defence; the Board can further define the manner and extent of revising. If a revised Dissertation is submitted at the second defence, the opponents are obliged to provide an independent report on the Dissertation within one month following its delivery.

The student signs the protocol on the course of the Dissertation defence, stating that he/she has been informed about the Board's assessment of his/her Dissertation, and with provisions.

(Study and Examination Regulations of the University of West Bohemia Dated 13 July 2017 - Part three, Ch. IX, Art. 112)

ATTACHMENT 1 – LIST OF SUBJECTS IN ENGLISH LANGUAGE

KEI – Department of Electronics and Information Technology

KEI/XACZS - Digital Signal Processing
KEI/XAEFI - Electronics in Physics Instrumentation
KEI/XAES - Electronics Systems
KEI/XAMEK - Modelling and simulation for electromagnetic compatibility
KEI/XAMIS - Microprocessor Systems
KEI/XAMMS - Multimedia Systems
KEI/XAPSR - Principles of Control System Synthesis
KEI/XARA - Radioengineering
KEI/XASPLO - Systems with programmable logic circuits
KEI/XATEL - Telecommunication Systems

KEE – Department of Power Engineering

KEE/XADEE - Electric Power Distribution
KEE/XAPJRC - Fueling Nuclear Reactors and Nuclear Fuel Cycle
KEE/XAPJR - Fuel for nuclear reactors
KEE/XAPZ - Computational analysis of electrical equipment and apparatuses
KEE/XARREC - Control and Regulation of Power Parts and Equipment
KEE/XASCHZ - Security, Quality and Reliability of Electrical Energy
KEE/XATCV - Partial Discharge Measurement Techniques
KEE/XATVN - High Voltage Techniques
KEE/XAVRF - Calculations in nuclear physics

KEP – Department of Electrical and Computational Engineering

KEP/XAMETP - Coupled electromagnetic and heat problems simulation
KEP/XAMOL - Mathematical optimization in electrical engineering
KEP/XAMRSP - Numerical Methods for Solution of Coupled Physical Fields
KEP/XAMVMT - Modeling for radio-frequency and microwave technology
KEP/XANMPR - Numerical methods for solution of partial differential equations in electromagnetism
KEP/XATE - Theory of Electrical Engineering
KEP/XATEMP - Theory of the Electromagnetic Field

KET – Department of Materials and Technology

KET/XAET - Electrotechnology
KET/XAFPL - Solid State Physics
KET/XAMAT - Materials and technology
KET/XAOES - Organic electroresponsive structures
KET/XAPESP - Components of electrical systems and operational environment
KET/XASDM - Structural diagnostic methods
KET/XASS - Signals and systems

KEV – Department of Power Electronics and Machines

KEV/XAMBD - Design of electric drives and converters control
KEV/XAMRP - Microprocessor Control of Electric Drives and Power Electronics Converters

KEV/XAPMA - Advanced control methods for electrical engineering applications

KEV/XARES - Control of Electromechanical Systems

KEV/XARVES - Control of Grid Connected Converters

KEV/XASMS - Statistical methods for estimation of uncertain systems

KEV/XASPS - Special power semiconductor devices

KEV/XATES - Theory of Electrical Machines

KEV/XAVEDS - Power Electronics Technology for Distribution Grids

KEV/XAVFS - Multiphase Systems in Electric Drives

KFY – Katedra fyziky

KFY/XASF - Subatomic Physics-Selected Parts

KIV – Katedra informatiky a výpočetní techniky

KIV/XAKRO - Object Classification and Recognition

KKY – Katedra kybernetiky

KKY/XATR - Control Theory

KMA – Katedra matematiky

KMA/XAMAP - Applied Mathematics Methods

KMA/XANMA - Numerical methods and applications