

FACULTY OF WOOD SCIENCES AND TECHNOLOGY

Technical University in Zvolen



**ANNUAL REPORT
ON THE ACTIVITIES OF THE FACULTY OF WOOD
SCIENCES AND TECHNOLOGY
TECHNICAL UNIVERSITY IN ZVOLEN
FOR 2019**

Zvolen, 2020

The presented annual report on the activities of the Faculty of Wood Sciences and Technology of the Technical University of Zvolen is prepared by the management of the Faculty in accordance with Act No. 131/2002 Coll. on Higher Education and on Amendments and Supplements to Certain Acts. It evaluates the activities of the faculty in the basic areas for the year 2019. The individual parts of the report were discussed by the Dean's Advisory Board of the Faculty of Wood Sciences and Technology and subsequently approved by the Scientific and Artistic Board of the Faculty of Wood Sciences and Technology in Zvolen.

The annual report as a whole provides a comprehensive picture of the structure, qualitative and quantitative indicators of individual activities of the Faculty and its basic organizational components - departments. It also provides important information for the Scientific and Artistic Board and the Academic Senate of the Faculty of Wood Sciences and Technology. It is the basis for the periodic evaluation of the faculty by the authorities of the Technical University of Zvolen and the Ministry of Education, Science, Research and Sport of the Slovak Republic. The report is a part of the documents for the preparation of the report of the Long-term Plan of the Faculty of Wood Sciences and Technology in Zvolen for the years 2017 - 2023.

The results of the annual report show that the management of the Faculty of Wood Sciences and Technology makes maximum use of the available financial and human resources to efficiently perform the tasks and achieve the goals set in the Long-term Plan of the Faculty of Wood Sciences and Technology of the Technical University for 2017 - 2023. All measures implemented during the previous period were aimed at streamlining the work and activities of the Faculty of Wood Sciences and Technology as well as increasing the performance in pedagogical, scientific research and other activities.

prof. Ing. Ján Sedliačik, PhD.
Dean of the Faculty

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I. AUTHORITIES OF THE FACULTY OF WOOD SCIENCES AND TECHNOLOGY

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Ing. Denisa Lizoňová, ArtD.

doc. Ing. Ján Parobek, PhD

Ing. Martin Zachar, PhD.

- Chairman

- Secretary

- Chairman of the Economic Commission

- Chairman of the Legislative Commission

Members:

doc. Ing. Iveta Čabalová, PhD.

prof. Ing. Ladislav Dzurenda, PhD.

Mgr. Elena Farkašová, ArtD.

doc. Ing. Jozef Gáborík, CSc.

Ing. Jarmila Klementová, PhD.

doc. PaedDr. Ľuboš Krišt'ák, PhD .

doc. Ing. Miroslava Mamoňová, PhD.

Ing. Ľubica Slašťanová

Ing. Roman Soyka, PhD.

Natália Repiská (1st Bc)

Lucia Trnkócyová (1st Bc)

Bc. Marika Hôričková (1. Ing.)

Bc. Ivan Vozaf (2nd Ing.)

Ing. Michal Andrejko (PhD student)

I. 3. SCIENTIFIC AND ARTISTIC BOARD OF THE FACULTY OF WOOD SCIENCES AND TECHNOLOGY

The Chair: **Prof. Ing. Ján Sedliačik, PhD.**

Members:

doc. akad. sculptor. René Baďura
doc. Ing. Martin Böhm, Ph.D.
doc. Ing. Josef Drábek, CSc.
prof. Ing. Ladislav Dzurenda, PhD.
doc. RNDr. Milada Gajtanska, CSc.
prof. Ing. Anton Geffert, CSc.
RNDr. Jiří Homolka
Ing. Daniel Huliak
Ing. Rastislav Igaz, PhD.
doc. Ing. Pavol Joščák, CSc.
prof. RNDr. Danica Kačíková, PhD., MSc.
doc. Ing. Ivan Klement, CSc.
doc. Ing. Marián Kučera, PhD.
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prof. akad. sculptor. Peter Paliatka
Ing. Igor Patráš
Ing. Ján Pivoluska
prof. Ing. Ladislav Reinprecht, CSc.
prof. Ing. Mikuláš Siklienka, PhD.
prof. Ing. Maroš Soldán, PhD.
prof. Ing. Jozef Štefko, CSc.
Dr. h. c. prof. Ing. Mikuláš Šupín, CSc.
Ing. Zuzana Tončíková, ArtD.
prof. Ing. Juraj Veselovský, CSc.

I. 4. DEAN'S ADVISORY BOARD OF THE FACULTY OF WOOD SCIENCES AND TECHNOLOGY

prof. Ing. Ján Sedliačik, PhD.

Ing. Rastislav Igaz, PhD.

Ing. Zuzana Tončíková, ArtD.

Ing. Adrián Banski, PhD.

Ing. Anna Hazlingerová

doc. akad. sculptor. René Baďura

doc. Ing. Iveta Čabalová, PhD.

prof. Ing. Ladislav Dzurenda, PhD.

RNDr. Andrej Jankech, PhD.

prof. RNDr. Danica Kačíková, PhD. , MSc.

doc. Ing. Ivan Klement, CSc.

doc. PaedDr. Ľuboš Krišťák, PhD.

doc. Ing. Rastislav Lagaňa, PhD. et PhD.

doc. Ing. Marek Potkány, PhD.

prof. Ing. Jozef Štefko, CSc.

Dr.h.c. prof. Ing. Mikuláš Šupín, CSc.

Ing. Veronika Veľková, PhD.

Invited:

Dr. phil. Mgr. Marek Ľupták - Head of the Department of Foreign Languages

II. EDUCATIONAL ACTIVITIES

II. 1. INTRODUCTION

In the academic year 2018/2019, the Faculty of Wood Sciences and Technology provided education in full-time and part-time form of study in the following disciplines and programmes:

Full-time form of study:

Degree of study	Field of Study	Study programme
I.	5.2.42 Timber industry	Wood processing
		Creation and construction of furniture
		Management of woodworking and furniture production
	5.2.45 Designs and processes for the manufacture of wood products	Wooden buildings
	3.3.16 Economics and business management	Economics and management of wood processing industry enterprises
	8.3.6 Rescue services	Fire protection and safety
	2.2.6 Design	Furniture and interior design
II.	5.2.42 Timber industry	Wood Engineering
		Creation and construction of furniture
		Management of woodworking and furniture production
	5.2.45 Designs and processes for the manufacture of wood products	Wooden buildings
	3.3.16 Economics and business management	Economics and management of wood processing industry enterprises
	8.3.6 Rescue services	Fire protection and safety
	2.2.6 Design	Furniture and interior design
III.	5.2.43 Wood processing technology	Wood processing technology
	5.2.44 Structure and properties of wood	Structure and properties of wood
	5.2.45 Designs and processes for the manufacture of wood products	Designs and processes for the manufacture of wood products
	8.3.6 Rescue services	Fire protection and safety
	2.2.6 Design	Furniture and housing design

External form of study:

Degree of study	Field of Study	Study programme
I.	5.2.42 Timber industry	Construction of wooden buildings and furniture - Volyně
		Furniture production
		Creation and construction of furniture
		Design and construction of furniture - Volyně
	5.2.45 Designs and processes for the manufacture of wood products	Wooden buildings
		Wooden buildings - Volyně
	3.3.16 Economics and business management	Business management in DSP
		Economics and Business Management DSP
	8.3.6 Rescue services	Fire protection and safety
II.	5.2.42 Timber industry	Wood Engineering
		Creation and construction of furniture
	5.2.45 Designs and processes for the manufacture of wood products	Wooden buildings
	3.3.16 Economics and business management	Business management in DSP
		Economics and Business Management DSP
	8.3.6 Rescue services	Fire protection and safety
III.	5.2.43 Wood processing technology	Wood processing technology
	5.2.44 Structure and properties of wood	Structure and properties of wood
	5.2.45 Designs and processes for the manufacture of wood products	Designs and processes for the manufacture of wood products
	8.3.6 Rescue services	Fire protection and safety
	8.3.1 Protection of persons and property	Fire protection and safety
	2.2.6 Design	Furniture and housing design

II. 2. NUMBERS OF STUDENTS STUDYING IN PROGRAMMES I. AND II. GRADE

The numbers of enrolled students by programmes, fields, degrees, years and forms of study are shown in Tables 1.1, 1.2.

Tab. 1.1 Number of students enrolled in full-time studies in the academic year 2018/2019

full-time study

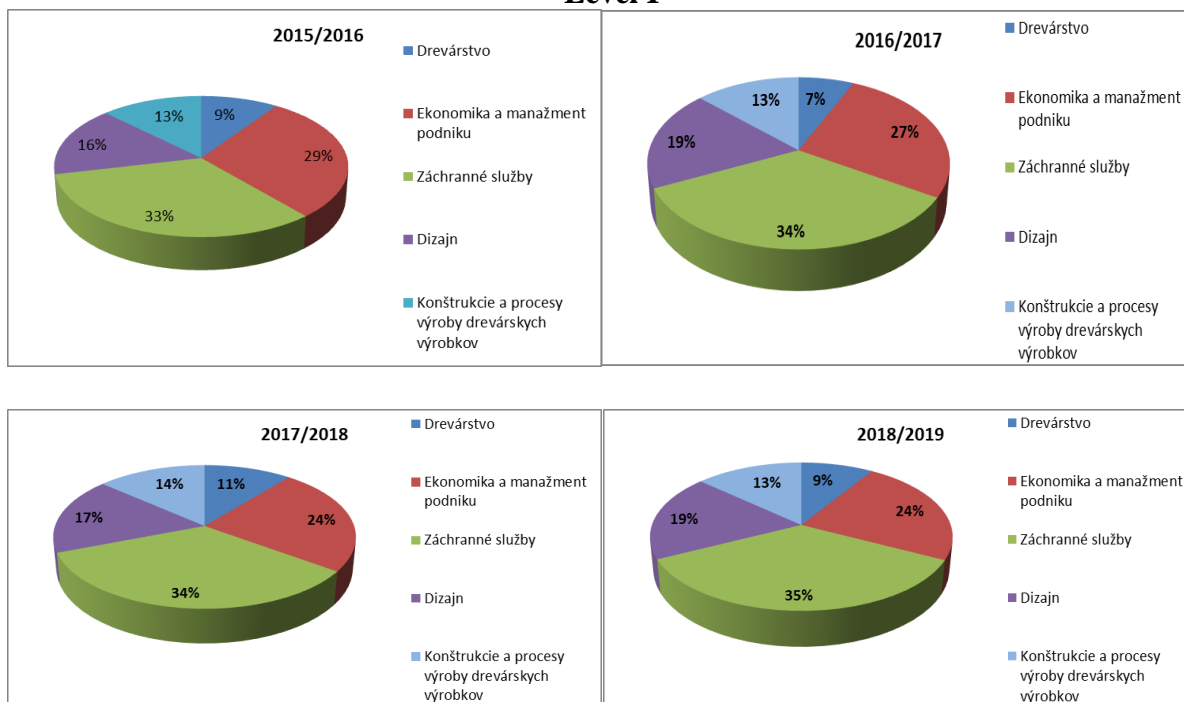
Department/Programme	Vintage				Total
	1.	2.	3.	4.	
I. level of study					
Department of Timber					
Wood processing	2	5	2		9
Creation and construction of furniture	7	13	13		33
Management of woodworking and furniture production	3	4	0		7
Total Department of Woodworking	12	22	15		49(65)
Department of DESIGN AND PRODUCTION PROCESSES OF WOOD PRODUCTS					
Wooden buildings	39	18	16		73(81)
Department of ECONOMICS AND BUSINESS MANAGEMENT					
Economics and Business Management DSP	51	39	38		128(145)
Department of PROTECTION SERVICES					
Fire protection and safety	93	54	45		192(204)
Department of DESIGN					
Furniture and interior design	27	25	26	25	103(104)
Total I. level	222(259)	158(162)	140(149)	25(29)	545(599)
II. level of study					
Department of Timber					
Wood Engineering	5	4			9
Creation and construction of furniture	6	7			13
Management of woodworking and furniture production	0	0			0
Total Department of Woodworking	11	11			22(39)
Department of DESIGN AND PRODUCTION PROCESSES OF WOOD PRODUCTS					
Wooden buildings	21	17			38(39)
Department of ECONOMICS AND BUSINESS MANAGEMENT					
Economics and Business Management DSP	46	53			99(128)
Department of PROTECTION SERVICES					
Fire protection and safety	43	45			88(96)
Department of DESIGN					
Furniture and interior design	17	16			33(31)
Total Level II	138(155)	142(178)			280(333)
Full-time study total	360(414)	300(340)	140(149)	25(29)	825(932)

Situation as at 31.10.2018

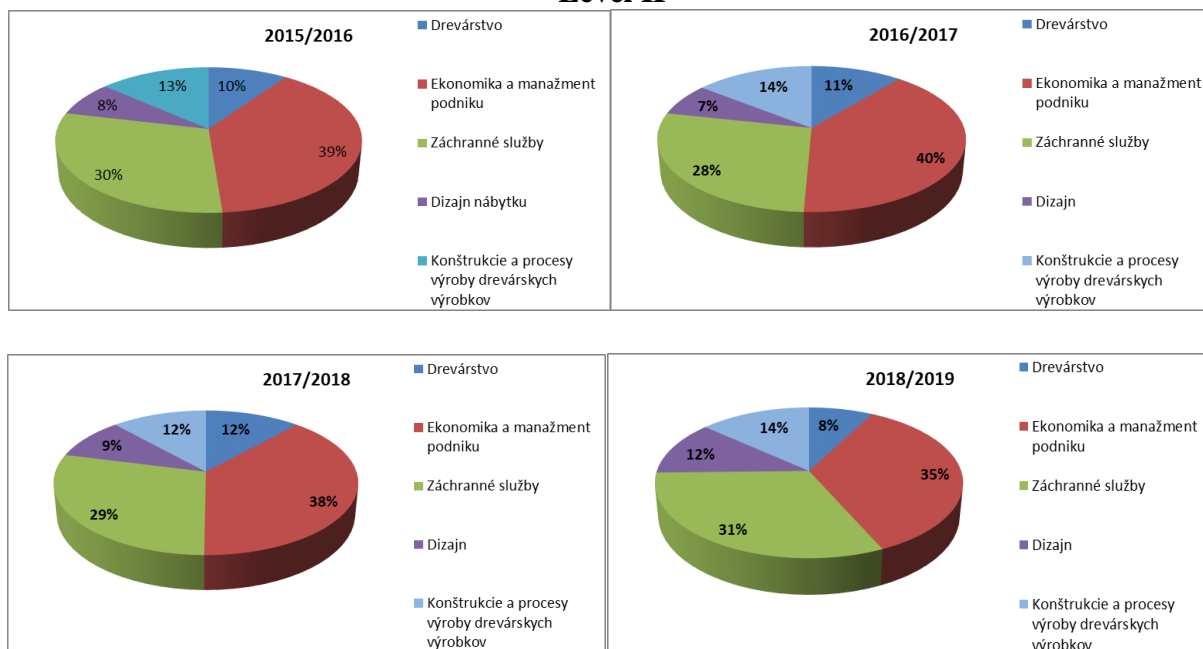
Note: Figures in brackets are from the previous year.

Overview of the percentage share of the number of **full-time** students in the 1st and 2nd cycle of study by disciplines at the Faculty of Wood Sciences and Technology in the academic years 2015/2016, 2016/2017, 2017/2018, 2018/2019.

Level I



Level II



Tab. 1.2 Number of students enrolled in the external form of study in the academic year 2018/2019

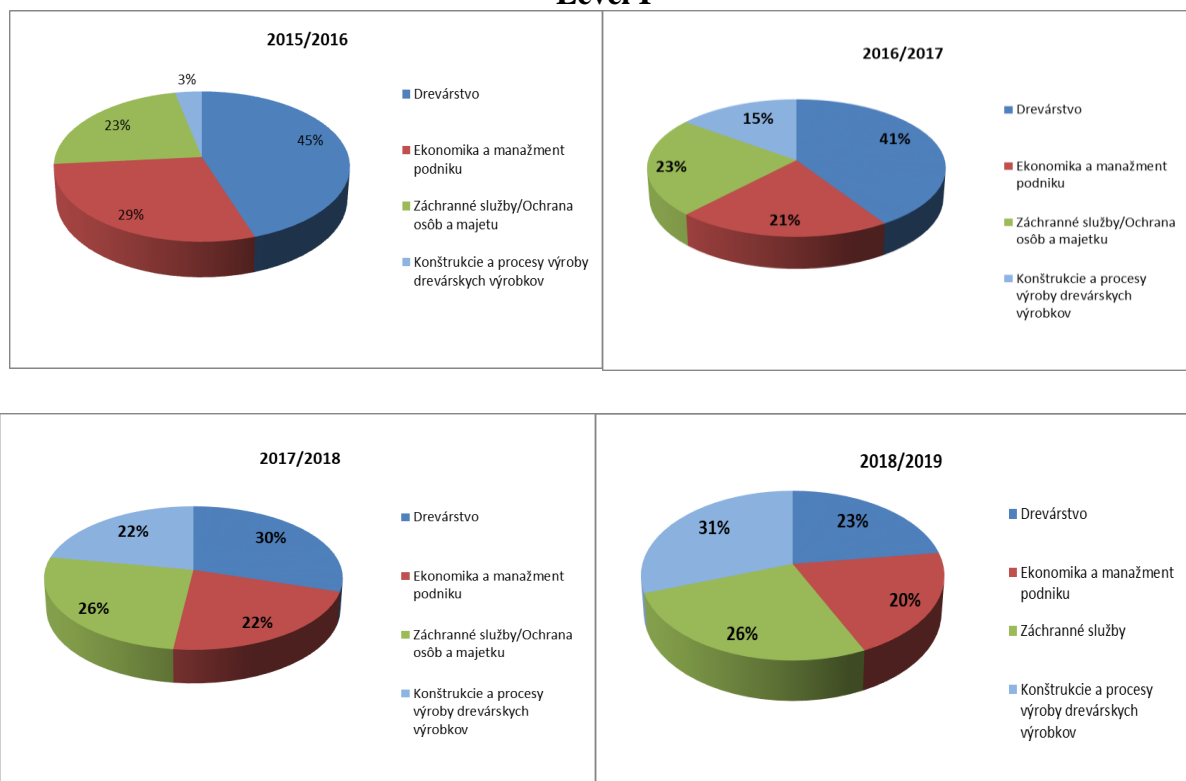
Department/Programme	Vintage				Total
	1.	2.	3.	4.	
I. level of study					
Department of Woodworking					
Furniture production	0	0	1	-	1
Construction of wooden buildings and furniture - Volyně	0	0	0	18	18
Creation and construction of furniture	10	4	2	0	16
Design and construction of furniture - Volyně	5	2	3	0	10
Total Department of Woodworking	15	6	6	18	45(54)
Department of DESIGN AND PRODUCTION PROCESSES OF WOOD PRODUCTS					
Wooden buildings	12	5	1	6	24
Wooden buildings - Volyně	20	9	7	0	36
Total	32	14	8	6	60(40)
Department of PROTECTION SERVICES					
Fire protection and safety	21	14	4	13	52(45)
Department of ECONOMICS AND BUSINESS MANAGEMENT					
Business management in DSP	-	-	1	0	1
Economics and management of wood processing industry enterprises	16	15	8	0	39
Total	16	15	9		40(40)
Total I. level	84(80)	49(29)	27(59)	37(13)	197(181)
II. level of study					
Department of WOODWORKING					
Wood Engineering	0	0	2	-	2
Creation and construction of furniture	0	5	4	-	9
Total Department of Woodworking	0	5	6	-	11(11)
Department of DESIGN AND PRODUCTION PROCESSES OF WOOD PRODUCTS					
Wooden buildings	3	6	0	-	9(9)
Department of ECONOMICS AND BUSINESS MANAGEMENT					
Economics and management of wood processing industry enterprises	8	7	16	-	31
Department of PROTECTION SERVICES					
Fire protection and safety	8	6	3	-	17(21)
Total Level II	19(31)	24(26)	25(10)	-	68(67)
External study total	103(111)	73(55)	52(69)	37(13)	265(248)

Situation as at 31.10.2018

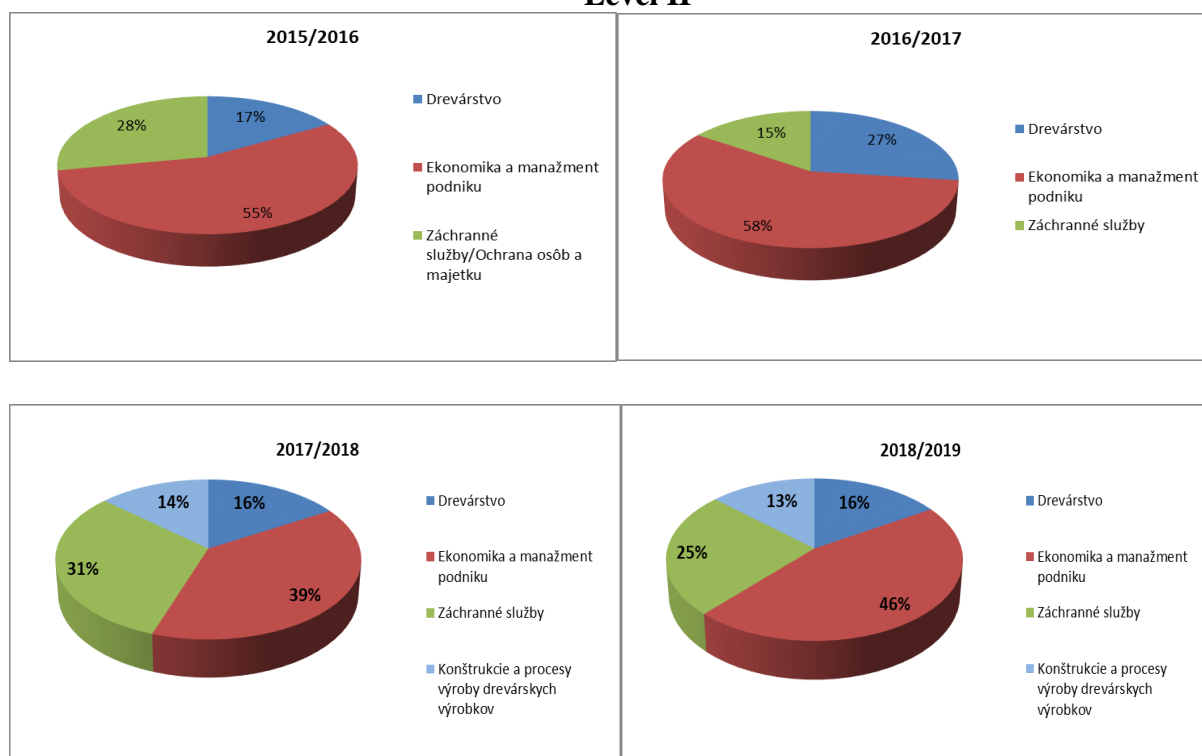
Note: Figures in brackets are from the previous year.

Overview of the percentage of the number of students **in the external** form of study in the 1st and 2nd cycle by disciplines at the Faculty of Wood Sciences and Technology in the academic years 2015/2016, 2016/2017, 2017/2018 and 2018/2019

Level I



Level II



Tab. 1.3 Overall statistics of the number of students enrolled at the Faculty of Wood Sciences and Technology in the academic year 2018/2019

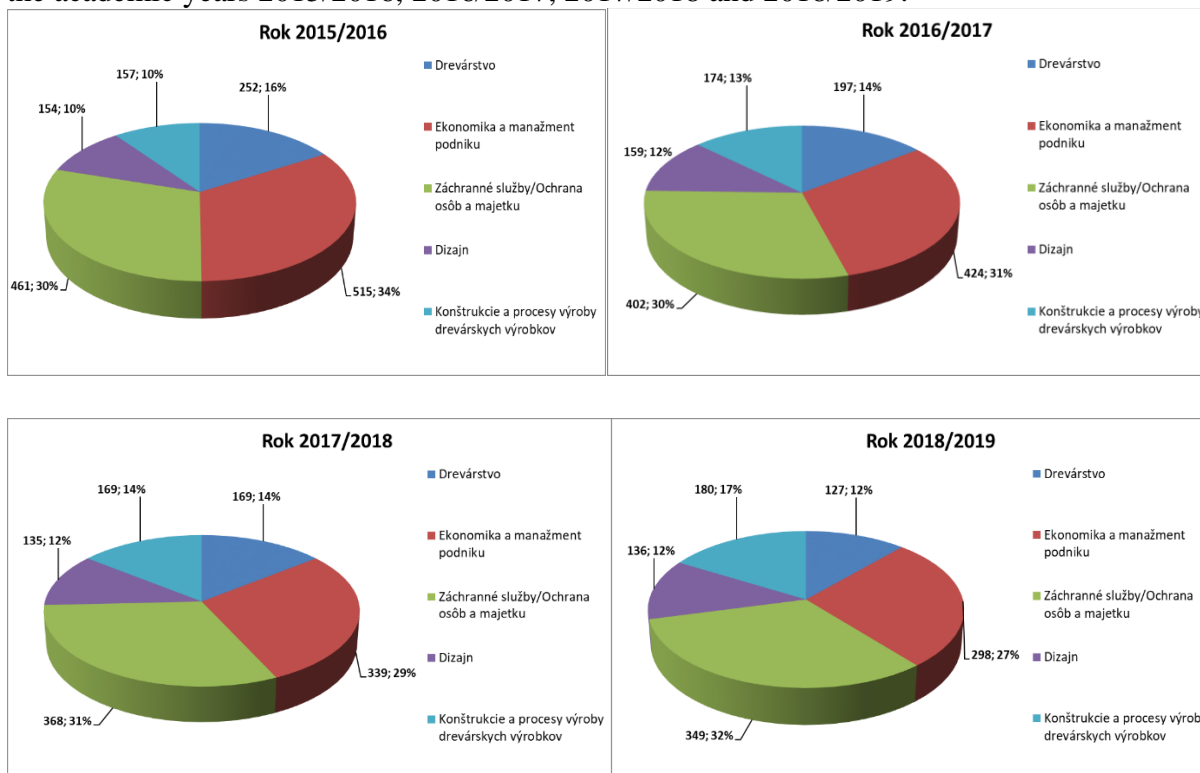
	Vintage				Total
	1.Bc + 1.Ing	2.Bc + 2.Ing	3.Bc	4.Bc	
Full-time + external study	1.Bc 306(339) 1.Ing 157(186)	2.Bc 207(191) 2.Ing 166(204)	3.Bc. 187(208) 3.Ing. 25(10)	62(42)	1 090(1 180)

Faculty	Full-time form of study				External form of study				TOTAL
	Grade				Grade				
	1.	2.	3.	Total	1.	2.	3.	Total	
DF	545(599)	280(333)	27(27)	852(959)	197(181)	68(67)	9(11)	274(259)	1 126(1 218)

Situation as at 31.10.2018

Note: Figures in brackets are from the previous year.

Overview of the percentage of the total number of **full-time** and **part-time** students in the first and second cycle by field of study at the Faculty of Wood Sciences and Technology in the academic years 2015/2016, 2016/2017, 2017/2018 and 2018/2019.



The total number of enrolled students studying at the Faculty of Wood Sciences and Technology decreased by 107 students (-11.5%) in full-time students and increased by 17 students (+6.8%) in part-time students compared to the previous year. The negative development is caused by the development of demography in Slovakia, a significant departure of students to study abroad and a general lack of interest in studying technical fields. The increase in external studies is due to the enrolment of more students in Volyn.

The total number of students across all levels and forms of study was 1126, a decrease of 7.6% compared to the previous academic year (12.8% a.y. 2017/2018).

II. 3. ASSESSMENT OF LEARNING OUTCOMES

The academic results achieved in the academic year 2018/2019 can also be assessed by the number of students (Table 2.1) who fulfilled the conditions for enrolment in the higher year in the academic year 2019/2020.

Table 2.1 Number of students in the academic year 2019/2020 as of 01.10.2019

Vintage	Number of students (active)		Interrupted	Abandonment for acad. year 2018/2019
Full-time study				
<i>Level I</i>				
1.	240		4	67
2.	138		2	39
3.	137		-	22
4.	28		-	4
<i>Level II</i>				
1.	111		2	9
2.	130		-	10
Total Full-time study	784(829)		8(8)	151(143)
External study				
<i>Level I</i>				
1.	78		3	31
2.	42		1	11
3.	45		-	5
4.	31		-	5
<i>Level II</i>				
1.	16		-	2
2.	14		-	2
3.	25		-	-
Total External study	251(264)		4(3)	56(38)
Total DS+ES	1035(1093)		12(11)	207(181)

Status as of 1.10.2019

Note: Figures in brackets are from the previous year.

Tables 1.1, 1.2 and 2.1 show that out of 222 full-time students of the 1st year of the 1st cycle of studies in the academic year 2018/2019, 138 students are continuing their studies in the 2nd year of the 1st cycle of studies (in the academic year 2019/2020), 4 students have interrupted their studies, and the others have been excluded for not meeting the conditions for advancement to a higher year. 84 students did not progress to the 2nd year, which is 37.8% (in the previous academic years it was 37.5%, 37.7%, 38.8%, 34.7%, 31.6%)

Of the 158 2nd year students in AY 2018/2019, 137 (in AY 2019/2020) entered the 3rd year, which is a decrease of 13.3% (in previous AYs it was 13.6%, 19.6%, 22.3%, 9.1%, 10.2%) This is the number of third year students excluding students in the extra length of study. There are 31 students enrolled in the 4th year of 2019/2020.

Out of 138 full-time students of the 1st year of the 2nd degree in the academic year 2018/2019, 8 students did not progress to the 2nd year of the 2nd degree in the academic year 2019/2020.

Out of 84 students of the external form of study of the 1st year of the 1st degree in the academic year 2018/2019, 42 students did not progress to the 2nd year (in the academic year 2019/2020), which is 50% (in previous years 40%, 46.3%, 36.5%, 26.9%, 38.2%). Of the 49 students in Level I Year 2 in AY 2018/2019, 4 students did not progress to Year 3 (in AY 2019/2020), which is 8.2% (previous years 6.9%, 10.6%, 11.9%, 19.1%, 23.6%). Out of 27 students of the external form of study of the 1st cycle of the 3rd year, 31 students did not advance to the 4th year in 2018/2019. The increase is due to the correction of the students' year. Out of 19 students of the external form of the II form of studies of the 1st year in the 1st year in 2018/2019, 5 students did not advance to the 2nd year of the 2nd degree in 2019/2020, which is 26.3% (in previous years it was 22.6%, 29.7%, 11.1%, 18.9%, 18.5%). All students have progressed to the third year at Level II.

In total, 207 students dropped out of the study for the academic year 2018/2019, which is 19% (14.9%, 22.8%, 18.1%, 16.2% in previous academic years).

DF students achieve the educational outcomes shown in Table 2.2.

Motivation for better student performance is also possible support through a system of incentive scholarships.

Table 2.2 Weighted study average achieved

	2017/2018 Weighted study average/exam retake index	2018/2019 Weighted study average/exam retake index
Bc.	2,45/1,56	2,45/1,56
Ing.	1,98/1,23	1,99/1,24

The system of student support is also provided in the form of various types of scholarships in accordance with applicable legislation and internal regulations of TU Zvolen. Students have the opportunity to receive social, motivational, benefit and extraordinary scholarships.

The social scholarship is intended for full-time students of 1st and 2nd degree studies at a university based in Slovakia. When calculating the amount of the scholarship, the total income of the jointly assessed persons is taken into account. The social grant may be awarded only to students whose family income is close to the minimum subsistence level.

The incentive scholarship is awarded to students studying in first or second degree programmes and is assessed according to the quality of the academic results achieved in the courses taken.

Motivational extraordinary scholarship can be awarded to all students of TU in Zvolen who have achieved outstanding results in the field of studies (Rector's Award, Dean's Award), in professional, scientific, research or sports activities or have successfully represented the University or the Faculty at important national or international events.

An overview of the selected scholarships paid to students of the Faculty of Wood Sciences and Technology for the academic year 2018/2019 is presented in Table 2.3. A total of € 85 417 was paid to 301 students without a social scholarship.

Table 2.3 Scholarships at the Faculty of Wood Sciences and Technology in the academic year 2018/2019

Incentive benefit		Motivational extraordinary		Motivational (research)	
Number of students	Amount paid	Number of students	Amount paid	Number of students	Amount paid
103	54 900 €	74	11 717 €	11	1 500 €

Social grant		Dean's Award		Rector's Award		Motivational (sports)	
Number of students	Amount paid	Number of students	Amount paid	Number of students	Amount paid	Number of students	Retrieved from Amount
60	89 760 €	23	5 550 €	14	10 050 €	16	1 700 €

II. 4. EVALUATION OF THE MAIN EXERCISES AND EXCURSIONS

The main exercises and excursions in the academic year 2018/2019 were carried out in accordance with the plan. In the academic year 2018/2019, the main exercises were carried out in both the winter and the summer semester.

The main exercises were attended by students of the second and third year of the first level of study (Woodworking, Rescue Services, Design and Processes of Wood Products Production, Design) and students of the second level of study of Woodworking, Design, Rescue Services.

The students visited the companies IKEA Industry Slovakia, o. z. Majcichov, IKEA Industry Slovakia, o. z. Trnava, Obecný podnik lesov, spol. s r. o. Poniky, Rettenmeier Liptovský Hrádok, Ekoltech, s.r.o. Filákov, PRP, s.r.o. Tomášovce, TON, a.s. Bystřice pod Hostýnem, Czech Republic, DOKA DREVO - Banská Bystrica, KRONOSPAN Jihlava - Czech Republic, VŠLP Lieskovec, LIND MOBLER SLOVAKIA, s.r.o. Krupina, Rescue Brigade HaZZ Žilina, Secondary School of Fire Protection of the Ministry of Interior of the Slovak Republic Považský Chlmec, ŽOS Zvolen, Hornonitrianske bane Prievidza, Hlavná minská záchranná stanica, o. z. - Prievidza, MONDI SCP Ružomberok, Transpetrol, a. s., Transpetrol, a. s., ŽOS Zvolen, ŽOS Zvolen, ŽOS Zvolen, ŽOS Zvolen Tupá, SLOVALCO, a.s. Žiar nad Hronom, Institute for the execution of detention and the Institute for the execution of punishment in Banská Bystrica, OS HZS Západné Tatry - Zverovka, Zuberec, POB students participated in the exercise rescue and firefighting equipment and technology on the river IPEL, DNI students participated in exhibitions: BRATISLAVA - Design Museum, Vienna-MAK Museum, Prague-Exhibition Designblok 2018, Brno-Villa Tugendhat and Jurkovič Villa, tour of wooden buildings - Eastern Slovakia on the route Zvolen - Snina.

In the LS, the main exercises were attended by students of the 1st degree of study (Woodworking, Rescue Services, Woodworking Design and Production Processes, Design) and the 2nd degree of study (Woodworking Design and Production Processes, Rescue Services, Woodworking, Design).

The students visited the companies DREVODOM ORAVA - Orava Podbiel, DREVODOM ORAVA - Oravská Lesná, PRP Tomášovce, NEFAB Levice, GAŠPARÍK, s.r.o. Makov, open-air museum Rožnov pod Radhoštěm, Czech Republic, Bučina DDD Zvolen, TECHNI-PAL Staré hory, RAJČAN, s.r.o. Stará Kremnička, WHC s.r.o. Veľké Leváre, Rettenmeier Liptovský Hrádok, Duslo Šaľa. The students took part in a tour of objects and reconstructions made of wood - Evangelical Church Hronsek, Catholic Church Čerín and selected objects in Banská Štiavnica, Zvolen Castle, SNG Zvolen, they also took part in the exhibition Nitra Agrokompex, a tour of bridge constructions and roofing structures in Zvolen, students took part in measurements in the training centre of supra-regional importance on woodworking CNC machines at the Higher Vocational School in Volyn, Czech Republic, within the HC of POB students there was a lecture of the Fire Technical and Expertise Institute of the Ministry of Interior of the Slovak Republic, they took part in a seminar on the subject of Technical Means in POB/Parts of Machines, they also took part in the exhibition Salone internazionale del Mobile - Milan, Italy.

II. 5. NUMBERS OF GRADUATES AND EVALUATION OF STATE EXAMINATIONS AND THESIS DEFENCES

The numbers of graduates (1st degree, 2nd degree) of the Faculty of Wood Sciences and Technology in the academic year 2018/2019 are shown in Table 4.1.

Tab. 4.1 Graduates of the Faculty of Wood Sciences and Technology in the academic year 2018/2019

	Faculty of Wood Sciences and Technology	Number of participants	Benefited	of which benefited with distinction	Do not pass
I. st.	Full-time study	127	114	3	13
	External study	28	27	0	1
	Total ES + ES	155(186)	141(177)	3(3)	14(9)
II. st.	Full-time study	133	132	20	1
	External study	29	28	3	1
	Total ES + ES	162(186)	160(185)	23(18)	2(1)

Note: Figures in brackets are from the previous year.

State examinations for the SP in the academic year 2018/2019 were held according to Annex 2, Study Regulations of the Faculty of Wood Sciences and Technology, namely the state examination - defence of the final thesis and the state examination in the field of knowledge of the field of study.

The guarantors of the SP have prepared new questions for the colloquial exam for each thematic unit.

In the 2018/2019 academic year, the students took the state examinations of the first cycle of studies on the following dates:

17.06.2019-21.06. 2019 in disciplines and programmes:

- full-time study (124 students)

Woodworking - Creation and construction of furniture (10) - Woodworking (2), - Design and processes for the manufacture of wood products - Wooden buildings (18),

Emergency services - Fire protection and safety (39),

Economics and management of enterprises - Economics and management of enterprises of wood processing industry (36),

Design - Furniture and interior design (19),

- external study (28 students)

Wood industry - Construction of wooden buildings and furniture in Volyn (13), - Manufacture of furniture (1)

Design and manufacturing processes of wood products - Wooden buildings (4)

Emergency services - Fire protection and safety (10),

22. 08. 2019 in disciplines and programmes:

- full-time study (31 students)

Woodworking -Furniture design and construction (6), Design and processes of wood products production - Wooden buildings (4)

Economics and management of enterprises - Economics and management of enterprises of wood processing industry (3),
Design - Furniture and interior design (2),
Emergency services - Fire protection and safety (16),
- external study (2 students)
Emergency services - Fire protection and safety (1),
Design and manufacturing processes of wood products - Wooden buildings (1)
In the 2018/2019 academic year, students took the state examinations of the second cycle of studies on the following dates:

3.6.-7.6.2019 in the field and program:

- full-time study (133 students)
Woodworking - Furniture design and construction (7) - Wood engineering (3), Wood product design and manufacturing processes - Wooden buildings (12),
Emergency services - Fire protection and safety (44),
Economics and business management - Economics and business management of wood processing industry (51),
Design - Furniture and interior design (16),

- external study (28 students)
Economics and management of enterprises - Economics and management of enterprises of wood processing industry (17),
Emergency services - Fire protection and safety (4),
Woodworking - Furniture design and construction (5) - Wood engineering (2),

22.8.2019 in the field and program:

- full-time study (9 students)
Design and processes of wood products production - Wooden buildings (1),
Economics and business management - Economics and business management of wood processing industry (1),
Emergency services - Fire protection and safety (7),

- external study (2 students)
Emergency services - Fire protection and safety (2).

During the state examinations and defences of diploma theses of engineering programmes in the first term, 25 committees worked. In the first term, 28 commissions worked in the state examinations and defences of bachelor theses, in the second term, 11 commissions worked together in the state examinations and defences of bachelor and master theses.

The evaluation of the state examinations - thesis defences by the chairs of the state examination committees showed that the level of presentations was at a sufficient level, as well as the answers to the questions. The quality of the diploma theses was at the required level, the students' own contribution was mainly appreciated. A certain problem is the possibility of obtaining data for the thesis from practice, especially for students dealing with issues in the economic field. The certificate of the originality of the thesis was taken into account in the thesis defences in accordance with the Higher Education Act. The certificate is a compulsory document for defences and is of a recommendatory nature.

State Examination Boards Bc. studies stated that most of the bachelor theses were processed in the form of a literature review. In some cases there were problems with incorrect citation of literature, or a small number or only from domestic literary sources.

The overall assessment was positive. They recommend to increase the proportion of own contribution in bachelor theses.

The results of the state examination from the thematic units mostly corresponded with the results during the study and with the overall attitude of the student. Major gaps in knowledge were evident this year in Emergency Services, where overall the students had to retake the state examination for Bc. study 16 students, of which 8 students did not pass even the remedial term, in the field of Woodworking B_TKN 5 students had to repeat the exam, of which 2 students did not pass even the remedial term, B_DS 4 students had to repeat the exam, of which 2 students did not pass even the remedial term, and in the Ing. study I_POB 9 students and of which all students passed the remedial term.

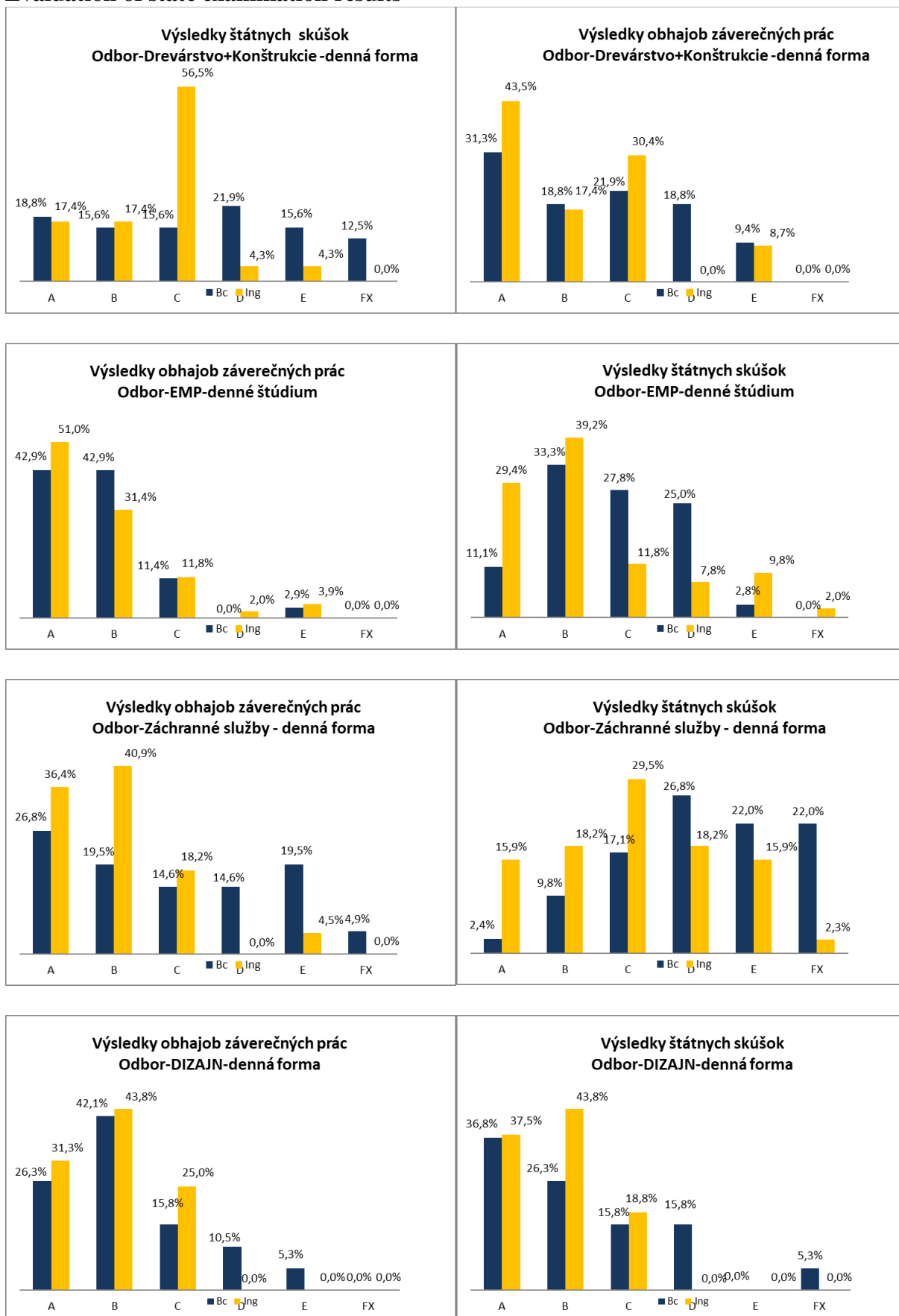
Overall, compared to last year, it can be assessed that the level of students' knowledge has deteriorated. This is due to the quality of the students admitted and the knowledge acquired during their previous studies at secondary school.

Within the framework of the second level state examinations, the Vice-Dean for PP personally participated in the state examination of the selected committee of each study programme. From these visits, he gives a positive assessment of the progress of the examinations. Differences in the conduct of the State Examination process have been identified and therefore a meeting of the SP supervisors, heads of departments and the DF management will be implemented in the academic year 2019/2020 in order to create a discussion for the improvement of the State Examination process.

The attached graphs show the average scores of the state examinations and final theses by field of study.

The members of the commissions made thorough and detailed records of the state examinations and the commissions took care to comply with the Study Regulations of the Faculty of Wood Sciences and Technology.

Evaluation of state examination results



II. 6. EVALUATION OF THE ADMISSION PROCEDURE I. and II. GRADE

The admission procedure for the academic year 2019/2020 has been announced for all accredited study programmes. Admission examinations for full-time studies in the first cycle in the Furniture and Interior Design programme (major in Design) were held on 5 and 6 February 2019 with a talent test, a test in fine arts, architecture and design, and a test of technical creativity.

In the second stage of the School of Furniture and Interior Design, the evaluation of the portfolio of the enrolled students and a personal interview of the candidates with the evaluation committee was carried out on 27.6.2019, which subsequently compiled the ranking of the candidates.

Without entrance examinations, on the basis of the evaluation of the results from secondary school, students were admitted to full-time and part-time studies in programmes of the first degree. Without entrance examinations, on the basis of an assessment of the relatedness of the field and the programme of studies completed at level I and an evaluation of the average of the results achieved during the bachelor's studies and the result of the state final examination and the defence of the bachelor's thesis, students were admitted to full-time and part-time study in level II programmes.

An overview of the projected enrolment numbers by study programme, enrolled, participating, admitted and enrolled students is given in Table 1. 77.5% (previous year: 85.1%, 76.6%, 89.9%, 68.6%) of the planned number of admissions applied for full-time study programmes accredited at the Faculty of Wood Sciences and Technology, which is a very negative phenomenon in terms of interest in studying at the Faculty of Wood Sciences and Technology. Despite the market conditions for high school graduates, however, this situation is not changing significantly.

In the full-time form of the first degree, the greatest interest in studying was in the programmes Furniture and Interior Design (the ratio of enrolled and admitted students was 1.66 (1.46 last year), Fire Protection and Safety 1.33 (1.63 last year). Compared to the previous year, this is a decrease in interest in the study programmes at the DF. The number of students enrolled in the full-time form of the second cycle of studies was similar to the number of graduates of the first cycle of studies.

In the external form, the interest in studying is generally decreasing, which is due to the charging of tuition fees and the extension of the standard length of study by one year. The planned numbers of students enrolled in the external form of the first and second cycle of studies were met at 47.2% (previous years: 47.5%, 33.1%, 49.4%, 51.2%, 64%, 34.4%). However, the balanced interest in studying at the first level of study can be positively evaluated.

The number of full-time students enrolled was 108 (-23.6%) lower than the number of students admitted (-25.9% last year), which is consistent with the trend of previous years, probably due to concurrent admissions to other universities. The number of students enrolled in external studies was 24 (-20.5%) lower than the number of students admitted. In total, 444 students enrolled in DF studies in the academic year 2019/2020 (463, 539, 560, 665, 674 previous a. y.) out of a total of 575 students admitted - 77% (76%, 79.6%, 76.3%, 72.9%, 69.9% previous a. y.).

Despite the fact that admitted students have to confirm their interest in studying at the Faculty of Wood Sciences and Technology by return, in many cases this does not happen and ultimately the exact number of students enrolled for the academic year is only known after the student's physical enrolment. Therefore, it is necessary to set the number of admitted students correctly and to select a sufficient reserve of students, especially for the fields of Wood Science and Business Economics and Management, but also for Emergency Services. In this academic

year, the enrolment took place on two dates (July and September) due to the pre-enrolment of students in other colleges.

In conclusion, the admissions process can be assessed **as positive overall**, despite the decline in enrolments. The **decrease is at the level of 4%, last year it was up to 14%, compared to the last year. There was an increase of enrolled students in the field of Woodworking by 16 students and overall at the first level by 22.** The marketing activities directed to the promotion of studies at the Faculty of Wood Sciences and Technology are proving to be correct, but it is necessary to intensify them even more and to direct them to all fields of study.

As of 1 September 2019, the new system of fields of study of the Slovak Republic, in which the universities of the Slovak Republic can provide higher education, is effective. There has been a merger or renaming of the fields of study provided at the DF. All study programmes provided remain valid and are accredited in accordance with the accreditation process.

Original field	New field
Woodworking	Woodworking
Wood processing technology	
Structure and properties of wood	
Designs and processes for the manufacture of wood products	
Economics and business management	Economics and Management
Rescue services	Security Sciences
Design	Art

Tab. 5.1 Entrance examinations at the Faculty of Wood Sciences and Technology for acad. Year 2019/2020

Study field/programme	Plan for adoption	Logged in	Attendees	Accepted	Enrolled
Full-time study					
<i>Level I</i>					
Department of WOODWORKING					
Wood processing	30	6		6	5
Creation and construction of furniture	30	28		28	22
Management of woodworking and furniture production	20	3		3	2
Total Department of Woodworking	80	37		37	29(13)
Department of DESIGN AND PRODUCTION PROCESSES OF WOOD PRODUCTS					
Wooden buildings	60	51		51	41(39)
Department of ECONOMICS AND BUSINESS MANAGEMENT					
Economics and Business Management DSP	100	75		75	51(51)
DESIGN Department					
Furniture and interior design	35	58	55	46	35(27)
Department of RESCUE SERVICES					
Fire protection and safety	100	133		133	84(88)
<i>Total full-time study I. degree</i>	<i>375</i>	<i>354(371)</i>	<i>55</i>	<i>342(338)</i>	<i>240(218)</i>
<i>Level II</i>					
Department of WOODWORKING					
Creation and construction of furniture	20	7		7	7
Wood Engineering	20	5		5	5
Management of woodworking and furniture production	20	0		0	0
Production and Utilisation of Wood Products (taught in English)	10	0		0	0
Total Department of Woodworking	70	12		12	12(11)
Department of DESIGN AND PRODUCTION PROCESSES OF WOOD PRODUCTS					
Wooden buildings	30	23		23	23(21)
Department of ECONOMICS AND BUSINESS MANAGEMENT					
Economics and Business Management DSP	60	36		36	36(46)
DESIGN Department					
Furniture and interior design	15	17	14	14	10(17)
Department of RESCUE SERVICES					
Fire protection and safety	60	31		31	30(43)
<i>Total full-time study II. degree</i>	<i>235</i>	<i>119(148)</i>	<i>14</i>	<i>116(143)</i>	<i>111(138)</i>
Total full-time study	610	473(519)	69	458(481)	350(356)

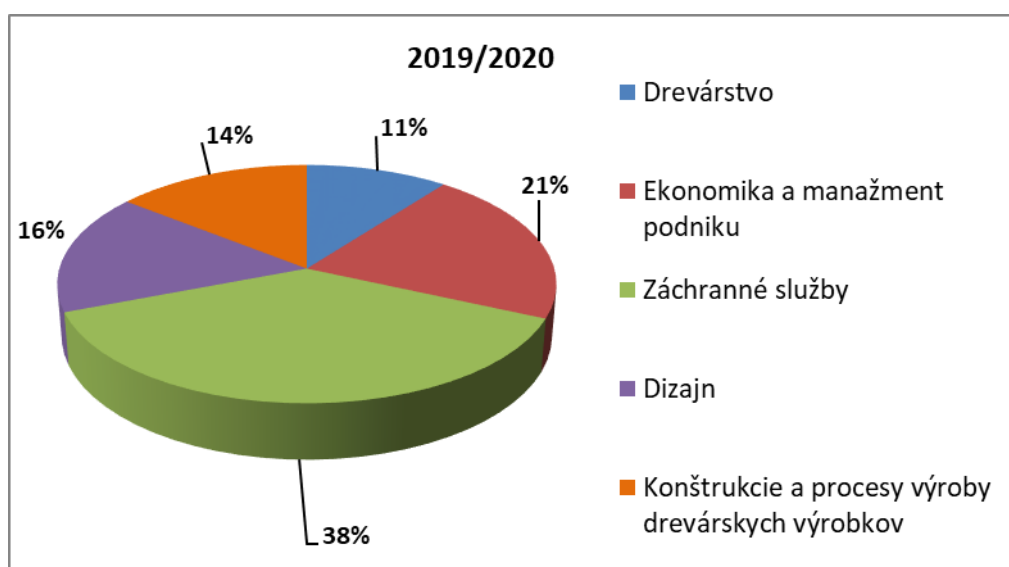
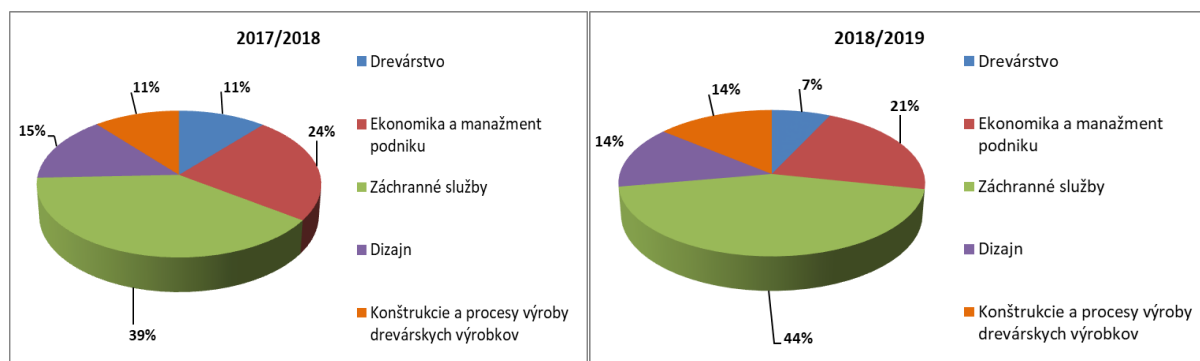
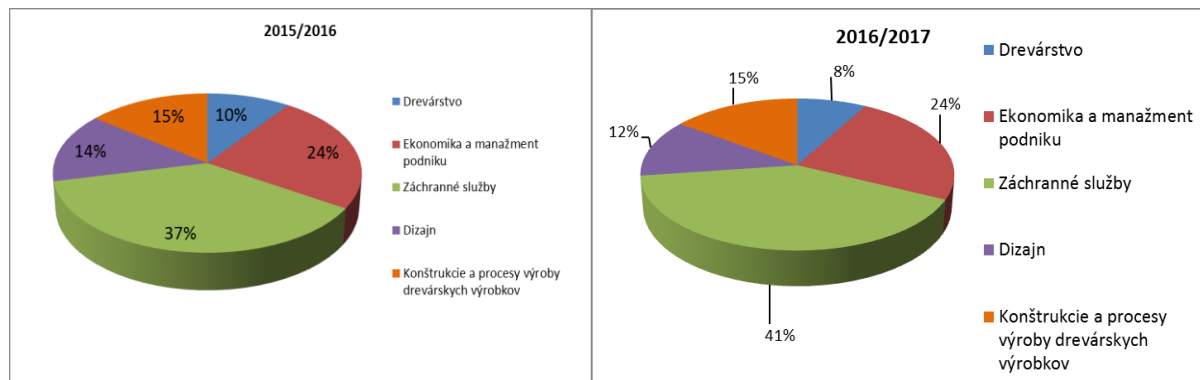
continued from tab. 5.1

Study field/programme	Plan for adoption	Logged in	Attendees	Accepted	Enrolled
External study					
<i>Level I</i>					
Department of WOODWORKING					
Wood processing	10	0		0	0
Creation and construction of furniture	10	6		6	5
Design and construction of furniture - Volyně	20	6		6	4
Management of woodworking and furniture production	10	0		0	0
Total Department of Woodworking	50	12		12	9(14)
Department of DESIGN AND PRODUCTION PROCESSES OF WOOD PRODUCTS					
Wooden buildings	15	25		25	20
Wooden buildings - Volyně	20	23		23	19
Total	35	48		48	39(33)
Department of ECONOMICS AND BUSINESS MANAGEMENT					
Economics and Business Management DSP	40	14		14	12(15)
Department of RESCUE SERVICES					
Fire protection and safety	40	23		23	17(25)
Total external study I. degree	165	97(112)		97(107)	77(87)
<i>Level II</i>					
Department of WOODWORKING					
Management of woodworking and furniture production	10	0		0	0
Creation and construction of furniture	10	1		1	0
Wood Engineering	10	0		0	0
Total Wood processing	30	1		1	0(1)
Department of DESIGN AND PRODUCTION PROCESSES OF WOOD PRODUCTS					
Wooden buildings	10	6		6	5(3)
Department of ECONOMICS AND BUSINESS MANAGEMENT					
Economics and Business Management DSP	20	1		1	1(8)
Department of RESCUE SERVICES					
Fire protection and safety	20	12		12	10(8)
Total external study II. degree	80	20(21)		20(21)	16(20)
Total external study	245	117(133)		117(128)	93(107)
Full-time and part-time study together					
Level I	540	421(483)	55(43)	439(445)	317(305)
Level II	315	139(169)	19(20)	136(164)	127(158)
DF	855	560(652)	74(63)	575(609)	444(463)

Note: Figures in brackets are from the previous year.

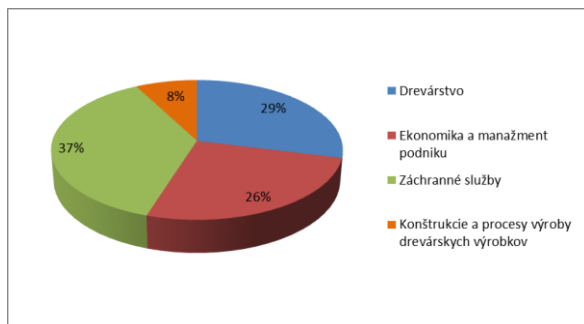
Total interest of all enrolled students in studying at the Faculty of Wood Sciences and Technology in the first cycle according to the enrolment in the field of study

I. degree full-time study

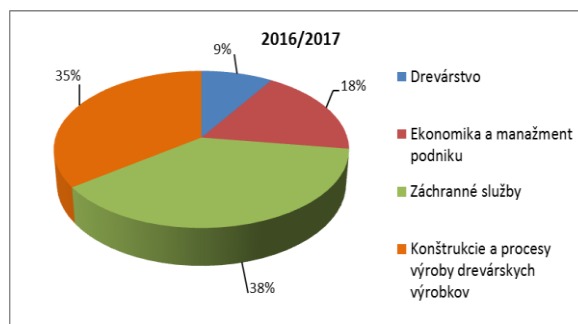


I. degree external study

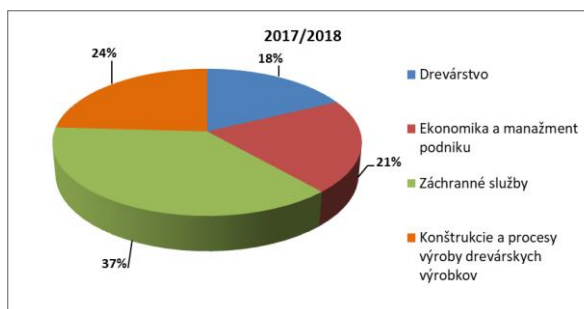
Year 2015/2016



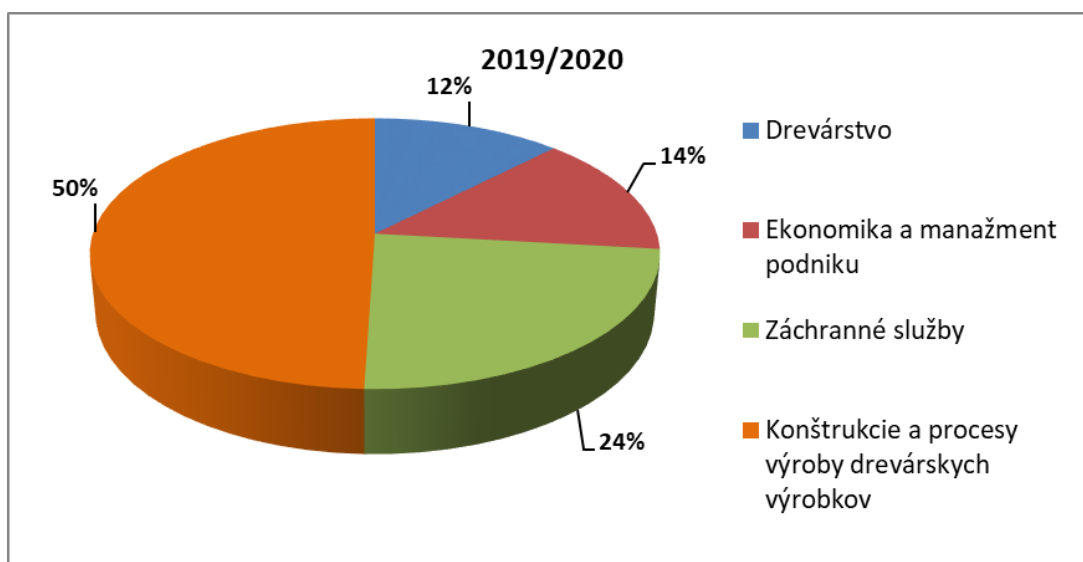
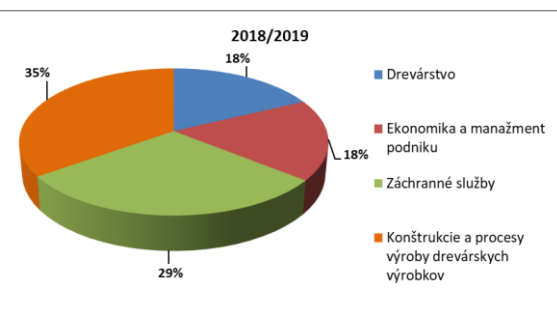
Year 2016/2017



Year 2017/2018

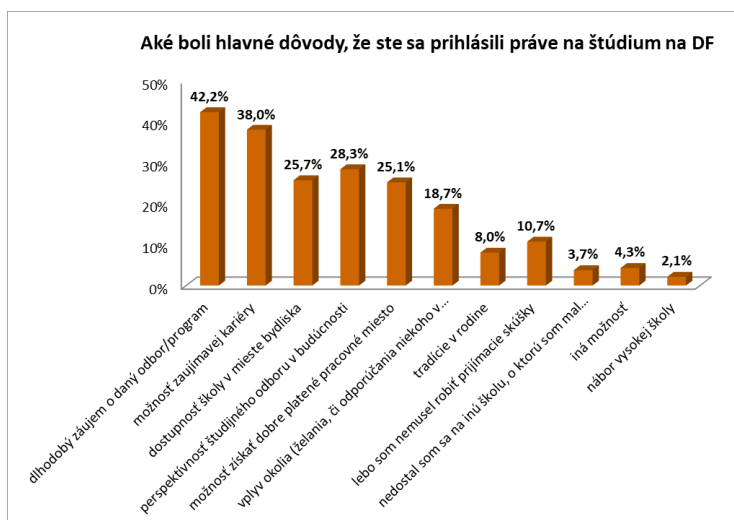


Year 2018/2019

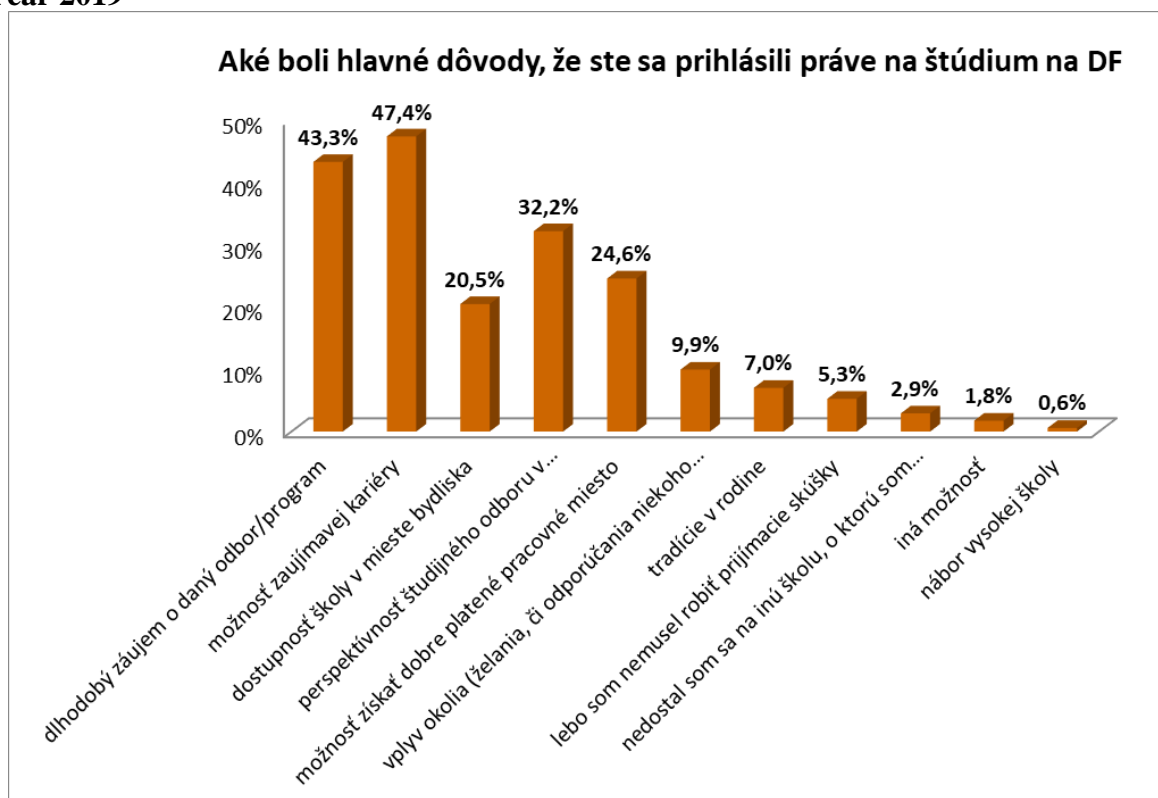


In the following section, the results of the questionnaire filled in by first year students of the first cycle of studies when enrolling for studies are processed. A total of 171 respondents answered the questionnaire. From the individual responses it is possible to ask questions and formulate answers on where to direct e.g. the marketing activities of the faculty in order to increase interest in studies.

Year 2018

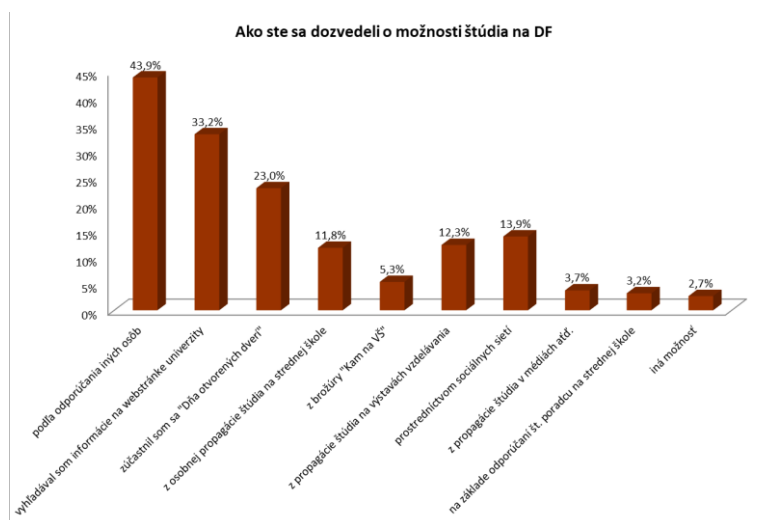


Year 2019

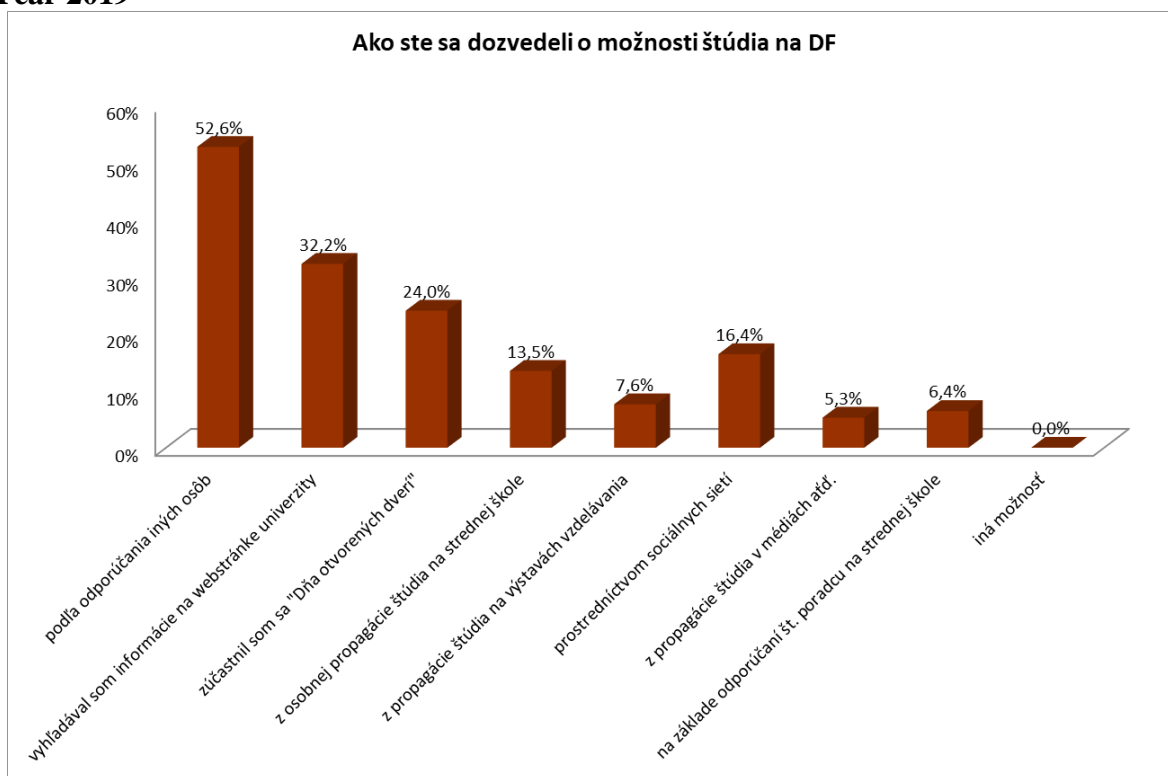


The answer "the possibility of an interesting career and a long-term interest in the field" are good signals for the DF in the future perspective of those interested in studying it.

Year 2018



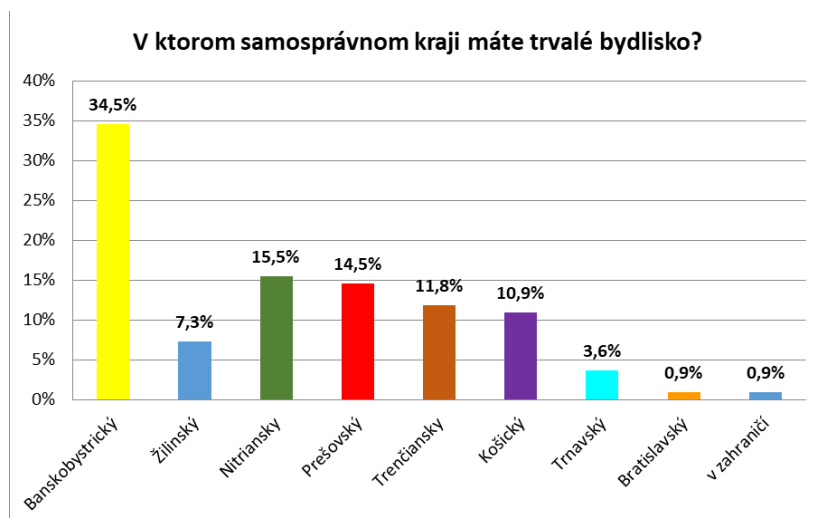
Year 2019



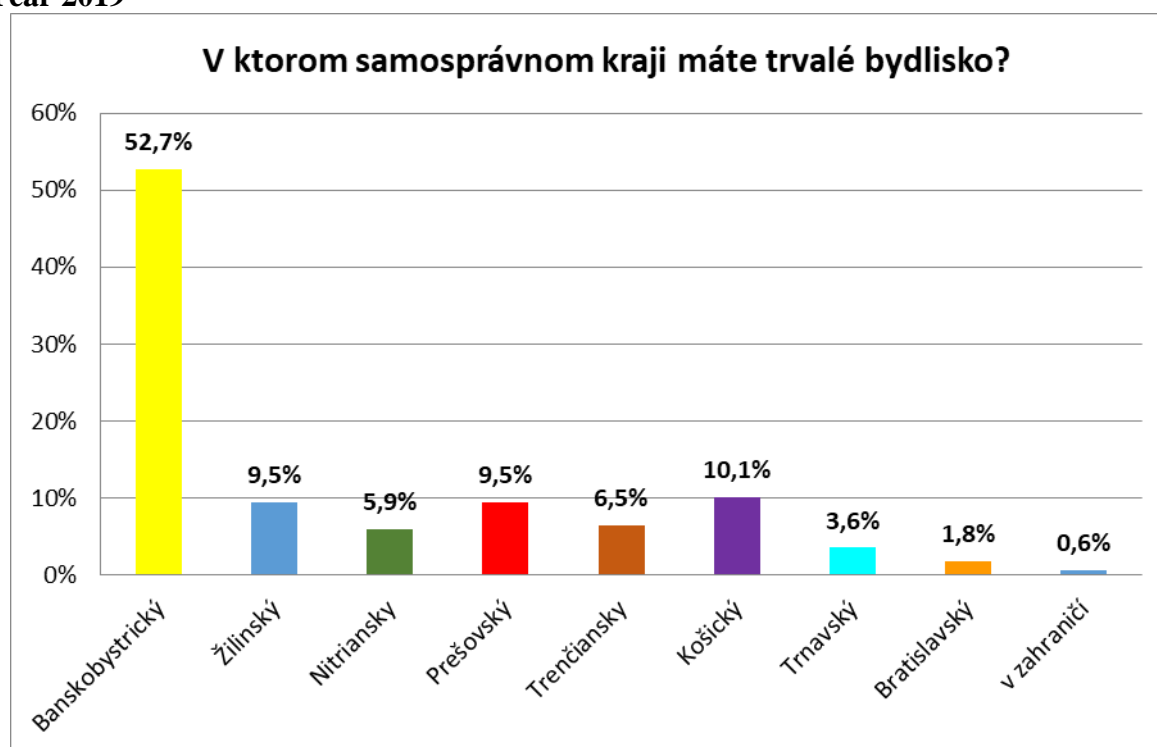
A very important factor that influences a potential candidate's decision is the recommendation of another person and therefore only a positive experience from the DF environment. Any negative mention has the effect of making the candidate unsure and looking for an alternative.

Constant attention is needed to the content of the DF website and promotion on social networks, which shows a steady increase in the percentage of shares. There is a need to link the DF website with the student organization Woodenworld.

Year 2018



Year 2019



The 18% increase in the BB region's share is a signal that DF is becoming dependent on the region's graduates. For the coming year, attention should be paid to promoting DF nationwide, not just in the region. Planned events at education fairs across the country can greatly contribute to this goal.

II. 7. STUDENT NUMBERS AND EDUCATIONAL ACTIVITIES IN STUDY PROGRAMMES III. GRADE

In the third level of study, six study programmes in six fields of study are currently accredited at the Faculty of Wood Sciences and Technology:

- in the field 5.2.43 Wood Processing Technology study programme Wood Processing Technology,
- in the field 5.2.44 Structure and Properties of Wood study programme Structure and Properties of Wood,
- in the field 5.2.45 Designs and processes of wood products production study programme Designs and processes of wood products production,
- in the field 8.3.1 Protection of persons and property, the study programme Fire Protection and Security (completing),
- in the field 8.3.6 Rescue Services, the study programme Fire Protection and Safety,
- in the field 2.2.6 Design, the study programme Furniture and Housing Design.

The change of the field of study with effect from 1.9.2019 is listed on page 18.

The admission procedure takes the form of a written test in a foreign language and a personal interview before an admissions committee consisting of members of the relevant Degree III Board of Studies.

Doctoral studies at the Faculty of Science and Arts are governed by disciplinary committees in 6 fields of doctoral studies, whose members have been approved by the Scientific and Artistic Board of the Faculty of Wood Sciences and Technology. According to the current regulations, full-time study lasts 3 years, part-time study 4 years and 5 years in catch-up study programmes. After a successful defence, the graduate of the study receives the academic degree "PhD." (philosophiae doctor) or "ArtD. (artis doctor).

An overview of the number of students by year is given in Table 6.1, and an overview of the number of students by discipline and programme is given in Table 6.2.

The international students are two from the Czech Republic and one student each from Ukraine and Austria.

Table 6.1 Overview of the number of PhD students in the third cycle by year and form of study in the academic year 2018/2019 (as of 31 October 2018)

Vintage	Form of study		Number of students	
	Daily	External	Together	of which foreign
1st year	10	3	13	1
2nd year	7	1	8	1
3rd year	10	2	12	2
4th year		3	3	-
5th year		-	-	-
Total	27 (27)	9 (11)	36 (38)	4 (5)

Note: Figures in brackets are from the previous year.

Table 6.2 Overview of the number of PhD III students by disciplines and programmes in the academic year 2018/2019 (as of 31.10.2018)

Study programme	Number of students (form of study)						
	Total	Total		of which Newcomers		of which Foreign	
		Daily	External	Daily	External	Daily	External
5.2.43 Wood processing technology	6	4	2	2	1	-	1
5.2.44 Structure and properties of wood	1	1	-	1	-	-	-
5.2.45 Designs and processes of DV production	14	11	3	4	1	1	1
8.3.6 Fire protection and safety	9	7	2	1	1	-	-
8.3.1 Fire protection and safety	1	-	1	-	-	-	-
2.2.6 Furniture and housing design	5	4	1	2	-	1	-
Total	36 (38)	27 (27)	9 (11)	10	3	2 (3)	2 (2)
				13 (8)			

Note: Figures in brackets are from the previous year.

Numbers of doctoral students have stabilised. The number of students enrolled in 2018/2019 is shown in Table 6.4. An overview of the number of graduates is given in Table 6.3.

Table 6.3 Overview of the number of PhD III graduates in the academic year 2018/2019 (as of 31 August 2019)

Field of Study/Programme	Number of graduates		
	daily form	external form	Total
5.2.43 Wood processing technology	-	-	-
5.2.44 Structure and properties of wood	-	-	-
5.2.45 Designs and processes of DV production	5	-	5
8.3.1 Protection of persons and property/Fire protection and safety	-	-	-
8.3.6 Emergency services/Fire protection and security	3	-	3
2.2.6 Design/Furniture and Housing Design	-	-	-
Total	8	-	8 (13)

Note: The figure in brackets is from the previous year.

Table 6.4 Overview of the number of enrolled Level III students in the academic year 2019/2020 (all/new enrolments)

Field of Study/Programme	Number of students	
	Daily	External
8.3.1 Protection of persons and property/Fire protection and safety	-/-	1/-
8.3.6 Emergency services/Fire protection and security	4/-	2/-
5.2.43 Wood processing technology	5/1	1/-
5.2.44 Structure and properties of wood	1/-	-/-
5.2.45 Designs and processes for the manufacture of wood products	5/2	2/-
5.2.45 Designs and processes for the manufacture of wood products	-/-	1/-
2.2.6 Design/Furniture and Housing Design	6/3	2/1
¹ Sectoral economics and management/Economics and management of the forestry-logging complex	5/5	2/2
Total	26/11	11/3

Note: all/new entrants

¹ A study programme implemented by the university. Of the seven students, six are from the DF.

In addition to professors and associate professors of the Faculty of Wood Sciences and Technology, the teaching of subjects in the third level of study is also guaranteed and provided by professors and associate professors of the Faculty of Wood Sciences and Technology, FEE, FEVT and the staff of the Institute of Woodworking. Professors and associate professors of the Faculty of Wood Sciences and Technology also guarantee and ensure the teaching of Level III courses at FEVT and FEE. Hours for consultation and examination have been added to the actual teaching hours of the teachers in the 2018/2019 academic year, according to the current unified calculations at TU.

In the academic year 2018/2019, 9 doctoral students passed the dissertation examination:

Mgr. art. Liubov Bajzová, Ing. Silvia Blašková, Ing. Iveta Melicherčíková, Ing. Miroslav Repák, Ing. Patrik Ščensný, Mgr. art. Igor Strmen, Ing. Ján Svocák, Ing. Nikoleta Ulbriková, Ing. Rastislav Veľas.

In the academic year 2018/2019, 8 doctoral students defended their doctoral theses in individual doctoral study programmes:

Designs and processes for the manufacture of wood products

1. **Ing. Marek Debnár, PhD.:** Economic and environmental aspects of the life cycle of wooden buildings
Supervisor: doc. Ing. Marek Potkány, PhD.
2. **Ing. Ondrej Ferenc, PhD.:** Analysis of cassette beams with beech timber flanges under bending stress
Supervisor: prof. Ing. Prof. Jozef Štefko, CSc.
3. **Ing. Diana Hamáry Gurová, PhD. et PhD.:** Formation and properties of dynamically stressed glued wooden sports equipment
Supervisor: prof. Ing. Ján Sedliačik, PhD.

4. **Ing. Mária Moresová, PhD.:** Wooden houses versus brick houses in the context of economic and social aspects in the Slovak Republic
Supervisor: doc. Ing. Mariana Sedliačiková, PhD.
5. **Ing. Vojtěch Ondrejka, PhD.:** Composite materials and their influence on the sound of percussion instruments in space
Supervisor: doc. RNDr. Anna Danihelová, PhD.

Fire protection and safety

1. **Ing. Martin Bednár, PhD.:** Influence of polystyrene modification on the formation of degradation products under thermal loading
Supervisor: prof. RNDr. František Kačík, PhD.
2. **Ing. Jana Gordanová, PhD. :** Risk management of serious industrial accident in a selected enterprise
Supervisor: doc. RNDr. Anna Danihelová, PhD.
3. **Ing. Miroslav Mojžiš, PhD.:** Progressive methods of sorbents evaluation
Supervisor: prof. RNDr. Danica Kačíková, PhD., MSc.

II. 8. TEACHERS' TEACHING LOAD

In determining the subsidy for the implementation of accredited study programmes, the number of students, the number of graduates, the economic difficulty of the study programmes, the integration of the university, the applicability of graduates in practice, quality and other aspects related to the provision of teaching are decisive. Similarly, at TU Zvolen, the teaching performance of the faculties is calculated in a similar way, while the relationship for the calculation of the teaching performance of the faculties also takes into account the inter-counting of teaching between the faculties.

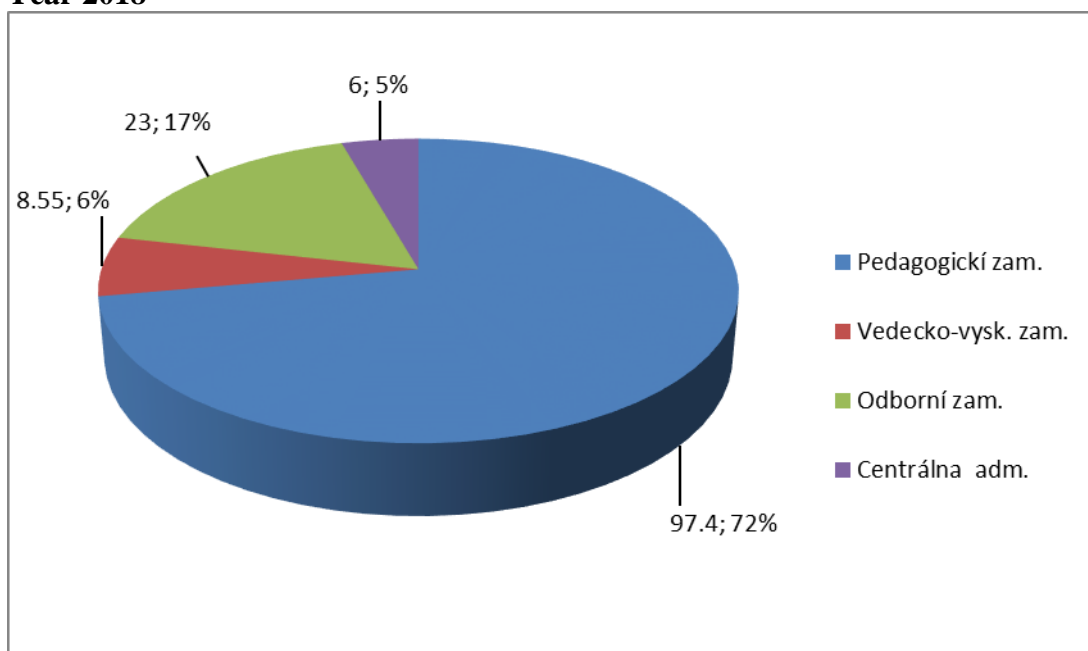
Table 7.1 Structure of DF staff by job classification as of 30.6.2019

Workplace	Pedagogical Full-time	Science-full-time research	Professional employees.	Central Administration	DF
Dean's Office DF	-	-	-	6	6
KDNI	11,75	1	2	-	14,5
KDS	6	-	1	-	7
KFEAM	6	-	1	-	7
KCHCHT	7	-	5	-	12
KMDG	7	-	1	-	8
KMOSL	10,5	-	1	-	11,5
KDT	6	-	4	-	10
KND	4	1,80	2	-	7,80
KNDV	7	1	2	-	10
CODE	4	2	0	-	6
KEMP	10,95	1 +1*	1	-	12,95+1*
KPO	12,45	-	3	-	15,45
Total	92,65	6,80+1*	23	6	128,45+1*
Total year 2018	97,4	7,55+1	23	6	133,95+1

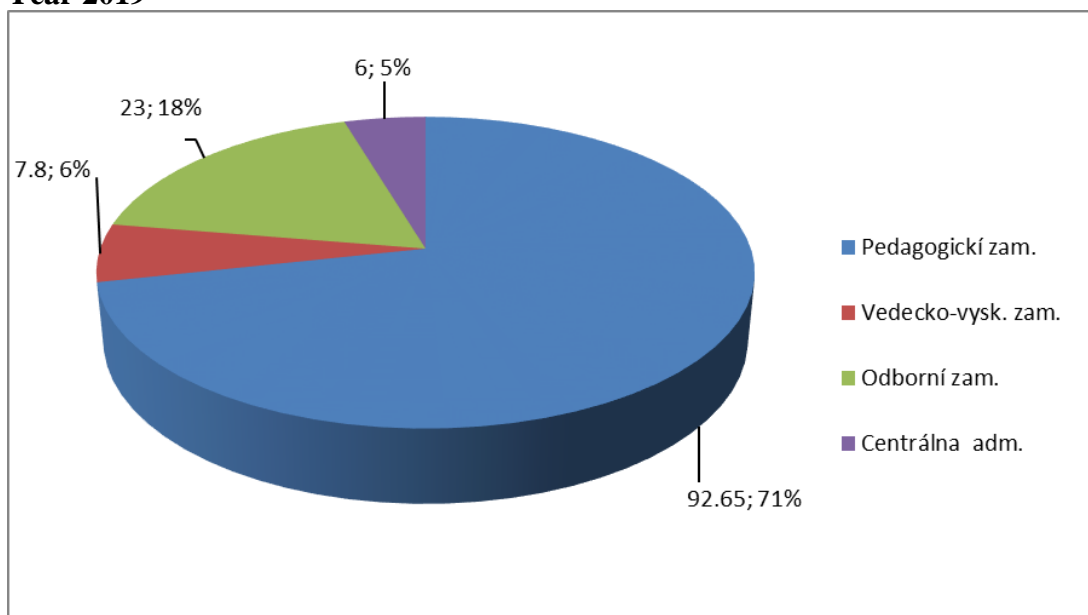
* financed by the project

Structure of the DF staff according to their classification.

Year 2018



Year 2019



The funding of universities from the budget is approximately 50:50 for performance in pedagogy and research, given the distribution of the performance subsidy. According to the performance overview, it is clear that not only the teaching performance of the faculty is contributed by the teaching staff, but they also contribute significantly to the performance in research activities. Similarly, research and professional staff also contribute to teaching performance.

In the following section we will discuss the departmental loadings according to the calculation of direct and indirect converted teaching. The number of working days per year is about 250, the working time of a teaching staff member is 7.5 hours per day. This gives approx. 1950 hours per year including holidays. The net working time is approx. 1550 hours. The

working time of a teaching staff member at a university should be divided, as already stated, approximately in the ratio of 50% of the working time for pedagogy and 50% of the working time for science and research.

The tables show the teaching load of the teachers of the Faculty of Wood Sciences and Technology in the individual departments in 2017/2018 and 2018/2019 in terms of direct teaching, indirect teaching (thesis supervision) and total teaching in hours.

Tables 7.2 and 7.3 summarise the so-called score evaluations that were obtained from the UIS. The data are based on timetable actions, so it is very important that the person responsible for the course (the course leader) assigns lecturers to timetable actions for lectures and tutorials or seminars. If this condition is not observed, the evaluation points will not be calculated correctly. The teaching load of the department is the value of the teaching staff only. Teaching hours in 2018/2019 are reported in aggregate for the whole department with teaching hours of PhD students, external students and staff whose employment has ended at the Faculty of Wood Sciences and Technology. Department Heads have a detailed description of each member of staff in the department.

From the point of view of the pedagogical process, the year 2018/2019 was also very demanding, as teaching was carried out in the full-time form according to the results of the comprehensive accreditation and therefore the new curricula on the one hand, and on the other hand, the external form was completed according to the plans of the previous accreditation.

Table 7.2 Teaching of the departments of the Faculty of Wood Sciences and Technology of the University of Science and Technology in the academic year 2017/2018 (UIS evaluation scores used)

Department	Full-time	Teaching calculated in total h	Final thesis total h	Total h	Average per 1	% of total
KDNI	13,25	43 845,20	1 620	45 465,20	3 431,34	33,82
KPO	12,45	11 798,26	4 630	16 428,26	1 319,54	12,22
KDS	6	5 323,44	2 130	7 453,44	1 242,24	5,54
CODE	4	4 319,08	270	4 589,08	1 147,27	3,41
KPH	14,95	11 855,70	4 560	16 415,70	1 098,04	12,21
KFEAM	6	5 231,25	1 170	6 401,25	1 066,88	4,76
KMOSL	11,5	8 356,50	3 720	12 076,50	1 050,13	8,98
KMDG	8,4	6 270,58	660	6 930,58	825,07	5,16
KNDV	7	4 695,38	990	5 685,38	812,20	4,23
KMTD	7	3 962,00	1 020	4 982,00	711,71	3,71
KCHCHT	7	3 992,60	580	4 572,60	653,23	3,40
KND	5,25	2 958,75	470	3 428,75	653,10	2,55
DF	102,80	112 608,74	21820,00	134 428,74	1 307,67	100,00

Table 7.3 Teaching of the departments of the Faculty of Wood Sciences and Technology of the University of Science and Technology in the academic year 2018/2019 (UIS evaluation scores used)

Department	Full-time	Total converted yield h	Final thesis total h	Total h	Average per 1	% of total
KDNI	11,75	38063,25	1890	39953,25	3400,28	32,03
KPO	12,45	11649,68	5010	16659,68	1338,13	13,36
KEMP	10,95	9849,35	3810	13659,35	1247,43	10,95
KDS	6	5586,80	1770	7356,80	1226,13	5,90
CODE	4	3926,36	420	4346,36	1086,59	3,48
KMOSL	10,5	7747,74	3360	11107,74	1057,88	8,91
KFEAM	6	5715,70	420	6135,70	1022,62	4,92
KMDG	7	6580,50	360	6940,50	991,50	5,56
KND	4	3177,00	630	3807,00	951,75	3,05
KDT	6	3863,50	900	4763,50	793,92	3,82
KNDV	7	4240,80	920	5160,80	737,26	4,14
KCHCHT	7	4322,28	520	4842,28	691,75	3,88
DF	92,65	104722,96	20010	124732,96	1346,28	100,00

The average teaching load of the teachers of the Faculty of Woodwork is high in the long term. The optimal value is considered to be the level of approx. 900 hours. One of the reasons for the high workload of teachers is the high number of courses in the implementation of the programmes of I. and II. degree. Increased attention needs to be paid to the number of PV courses being opened and to streamline the number of courses and the course load in the group. The teaching of these subjects constitutes a large part of the teaching at the DF. The teaching load of the teachers of the departments that provide teaching mainly in only one study programme (POB, KEMP, KMOSL) is even increased due to the high number of theses conducted and defended in the programme. Students preferably choose the topic of the thesis from the teachers of this department.

Departmental performance is down slightly by about 7% and reflects reduced numbers of students and groups taught in courses and the number of theses.

Tab. 7.4 Number of final theses at DF

Workplace	BP	DP	DizP	Total
Faculty of Wood Sciences and Technology	212 (157)	189 (181)	12 (7)	413 (345)
Department of Mathematics and Descriptive Geometry (DF)	4 (4)	4 (4)	-	8 (8)
Department of Chemistry and Chemical Technology (DF)	8 (7)	3 (3)	1 (1)	12 (11)
Department of Wood Science (DF)	5 (3)	5 (5)	-	10 (8)
Department of Physics, Electrical Engineering and Applied Mechanics (DF)	10 (6)	2 (1)	1 (0)	13 (7)
Department of Furniture and Wood Products (DF)	12 (11)	7 (6)	1 (1)	20 (18)
Department of Marketing, Business and World Forestry (DF)	25 (21)	42 (42)	1 (0)	68 (63)
Department of Woodworking (DF)	5 (2)	4 (4)	-	9 (6)
Department of Fire Protection (DF)	59 (37)	44 (42)	4 (3)	107 (82)
Department of Furniture and Interior Design (DF)	19 (19)	16 (16)	1 (0)	36 (35)
Department of Wood Technology (DF)	8 (5)	8 (7)	-	16 (12)

Workplace	BP	DP	DizP	Total
Department of Economics, Management and Entrepreneurship (DF)	30 (19)	44 (44)	3 (2)	77 (65)

Item. : In brackets is the number of successfully defended theses

BP-Bachelor thesis, DP - Diploma thesis, DizP -Dissertation thesis

The number of theses in each department reflects the number of students in the study programme for which the department provides teaching services. The stabilisation of supervised theses in science departments can be positively assessed.

An important accreditation criterion for thesis supervision in Levels I and II is a maximum of 10 supervised theses per employee for both levels combined.







In the following section of the report, the calculation of the so-called student-hours, which are determined, for example, in the calculation of the creditability of teaching within the TUZVO and the calculation of the subsidy, is presented.

The number of student-hours is defined as the product of the course endowment, the number of students enrolled in the normal form of study for this course and the number of teaching weeks in the semester.

The number of teaching hours is defined as the sum of the direct teaching component and the student examination component, where direct teaching is defined as the product of the sum of the durations of all timetable events in a given week and the number of teaching weeks in a semester (with the addition of the length of combined teaching) and the examination component is defined as the product of the number of examined students of both forms of study (normal and consultative) and a coefficient of 0.5.

Table 7.5 Basic overview of the number of student hours DF 2018/2019

The following table shows a basic overview of the number of student hours issued and received by individual faculties. The total in the Total column represents the sum of all student hours on that row, excluding those provided by a particular department to itself.

Faculty	Issued/Accepted by	DF	FEE	FT	LF	Rekt	Total
DF		552 343	14 424	7 804	16 853	32 824	71 905
			258	28 611	424	0	29 293
Rekt		0					0
		32 824					32 824
ÚCJ (043)		32 586					32 586
ITC (087)		10 640					10 640

Set of student hours (Full-time study only)

The following table gives an overview of the student hours provided by the individual departments for a given form of study.

Issued/Accepted by	DF	FEE	FT	LF	Rekt	Total
DF	458 206	12 712	5 236	15 442	28 532	520 128
FEE	42	0	0	0	0	42
FT	23 226	0	0	0	0	23 226
LF	224	0	0	0	0	224
Rekt	0	0	0	0	0	0

Issued/Accepted by	DF	FEE	FT	LF	Rekt	Total
ÚCJ (043)	26 908	0	0	0	0	26 908
ITC (087)	10 640	0	0	0	0	10 640

Set of student hours (External combined form of study only)

The following table gives an overview of the student hours provided by the individual departments for a given form of study.

Issued/Accepted by	DF	FEE	FT	LF	Rekt	Total
DF	94 137	1 712	2 568	1 411	4 292	104 120
FEE	216	0	0	0	0	216
FT	5 385	0	0	0	0	5 385
LF	200	0	0	0	0	200
Rekt	0	0	0	0	0	0
ÚCJ (043)	5 678	0	0	0	0	5 678
ITC (087)	0	0	0	0	0	0

Table 7.6 Basic overview of the number of student hours by department

Overview of student hours provided by DF faculty departments

The following table shows a basic overview of the number of student hours provided by individual departments of the faculty.

Providing workplace	DF	FEE	FT	LF	Rekt	Total	Share to the best	Proportion to the whole
<u>KDNI (051)</u>	81 829	0	0	0	0	81 829	80,21 %	13,11 %
<u>KDS (049)</u>	31 386	0	0	0	0	31 386	30,77 %	5,03 %
<u>KDT (056)</u>	20 888	0	0	0	168	21 056	20,64 %	3,37 %
<u>KEMP (057)</u>	92 968	0	0	0	4 208	97 176	95,25 %	15,57 %
<u>KFEAM (014)</u>	34 775	3 304	0	40	0	38 119	37,36 %	6,11 %
<u>KCHCHT (012)</u>	24 420	7 156	0	56	0	31 632	31,01 %	5,07 %
<u>KMDG (011)</u>	45 965	2 932	7 804	10 101	2 472	69 274	67,90 %	11,10 %
<u>KMOSL (018)</u>	50 312	56	0	2 392	25 192	77 952	76,41 %	12,49 %
<u>KNDV (016)</u>	27 572	0	0	0	0	27 572	27,03 %	4,42 %
<u>KND (013)</u>	20 014	280	0	4 264	56	24 614	24,13 %	3,94 %
<u>CODE (021)</u>	20 196	0	0	0	0	20 196	19,80 %	3,24 %
<u>KPH (017)</u>	0	696	0	0	728	1 424	1,40 %	0,23 %
<u>KPO (022)</u>	102 018	0	0	0	0	102 018	100,00 %	16,34 %
Total	<u>552 343</u>	<u>14 424</u>	<u>7 804</u>	<u>16 853</u>	<u>32 824</u>	<u>624 248</u>	---	

Overview of student hours provided by DF departments of the FEE faculty

Providing workplace	DF	FEE	FT	LF	Rekt	Total	Share to the best	Proportion to the whole
<u>Dek (031)</u>	0					0	0,00 %	0,00 %
<u>KAE (026)</u>	0					0	0,00 %	0,00 %
<u>KBVE (027)</u>	0					0	0,00 %	0,00 %
<u>KEI (025)</u>	216					216	100,00 %	83,72 %
<u>KEVTUR (029)</u>	0					0	0,00 %	0,00 %
<u>KPTK (024)</u>	42					42	19,44 %	16,28 %
Total	<u>258</u>					<u>258</u>	---	

Overview of student hours provided by DF departments of the Faculty of FT

Providing workplace	DF	FEE	FT	LF	Rekt	Total	Share to the best	Proportion to the whole
<u>KELT (045)</u>	0					0	0,00 %	0,00 %
<u>KIAT (038)</u>	432					432	2,59 %	1,51 %
<u>KMSD (047)</u>	16 708					16 708	100,00 %	58,40 %
<u>KRSAT (048)</u>	0					0	0,00 %	0,00 %
<u>KVAT (055)</u>	7 675					7 675	45,94 %	26,83 %
<u>KVTMKv (054)</u>	0					0	0,00 %	0,00 %
<u>KVTM (039)</u>	3 796					3 796	22,72 %	13,27 %
Total	28 611					28 611	---	

Overview of student hours provided by DF departments of the Faculty of Medicine

Providing workplace	DF	FEE	FT	LF	Rekt	Total	Share to the best	Proportion to the whole
<u>KAZMZ (052)</u>	212					212	100,00 %	50,00 %
<u>KERLH (007)</u>	156					156	73,58 %	36,79 %
<u>KF (008)</u>	0					0	0,00 %	0,00 %
<u>KHÚLG (006)</u>	0					0	0,00 %	0,00 %
<u>KIOLK (053)</u>	0					0	0,00 %	0,00 %
<u>KLŤLM (044)</u>	56					56	26,42 %	13,21 %
<u>KOLP (003)</u>	0					0	0,00 %	0,00 %
<u>KPL (002)</u>	0					0	0,00 %	0,00 %
<u>KPP (042)</u>	0					0	0,00 %	0,00 %
Total	424					424	---	

Overview of student hours provided by DF faculty departments Rekt

Providing workplace	DF	FEE	FEVT	LF	Rekt	Total	Share to the best	Proportion to the whole
<u>Rekt</u>	0					0	---	---

Overview of student hours provided by the DF departments of the ÚCJ faculty (043)

Providing workplace	DF	FEE	FT	LF	Rekt	Total	Share to the best	Proportion to the whole
<u>ÚCJ (043)</u>	32 586					32 586	100,00 %	100,00 %

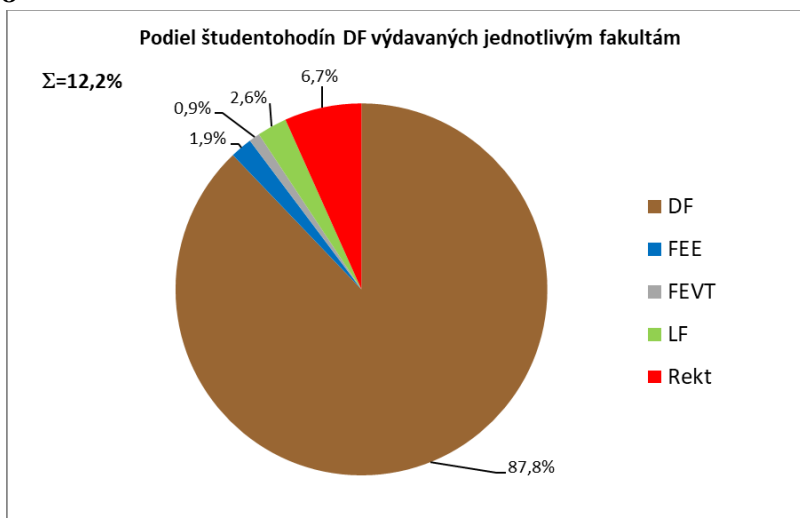
Overview of student hours provided by the DF departments of the faculty of the Institute of Education and Training (087)

Providing workplace	DF	FEE	FT	LF	Rekt	Total	Share to the best	Proportion to the whole
<u>ITC (087)</u>	10 640					10 640	100,00 %	100,00 %

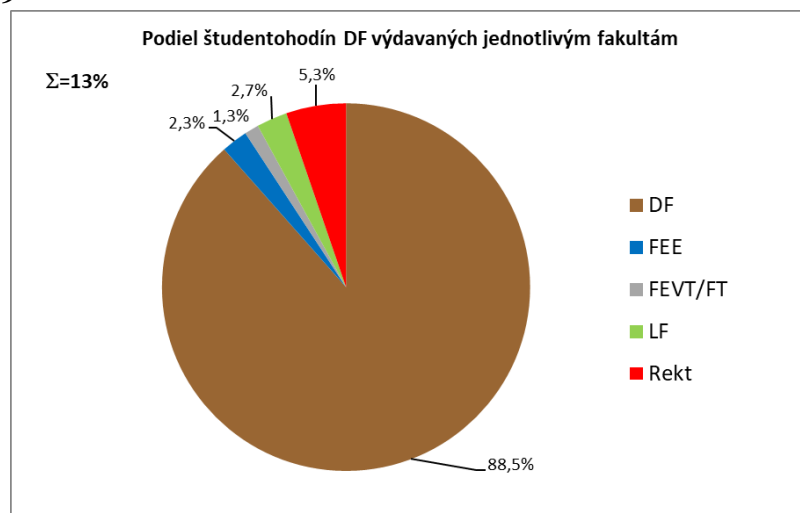
The Faculty of Wood Sciences and Technology provides 13% of the total output (71 905 h) to other TU components. It draws from the other components a total of 72 510 h - the largest part of 45 % is provided by the teaching of the Institute of Foreign Languages (source Table 7.5)

It is very important to note that for the correct display of the real values of the student-hours is conditioned by the correct and complete completion of the information sheets of the courses (course gestor, allocation of hours, etc.) and, of course, the completed timetable characteristics of each course for the teaching staff. It can be stated that at DF this condition is fulfilled at a relatively high percentage, therefore these values can be considered highly realistic.

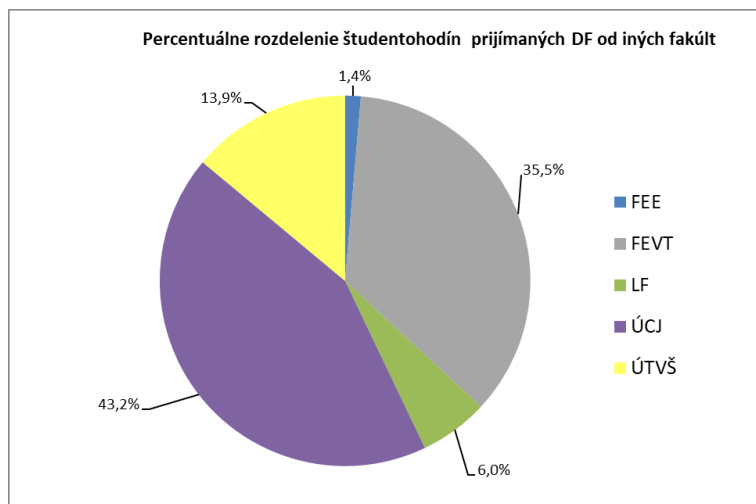
Year 2017/2018



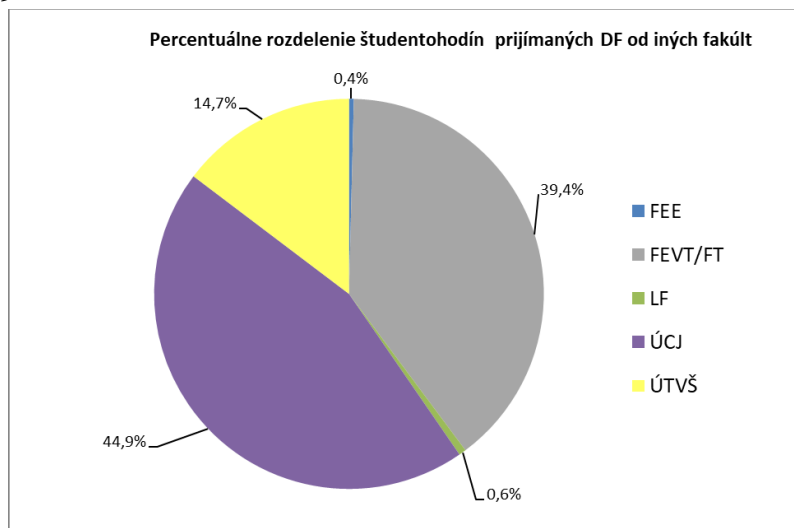
Year 2018/2019



Year 2017/2018



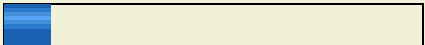


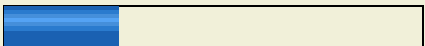

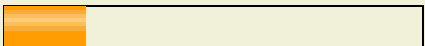
Year 2018/2019



II. 9. STUDENTS' EVALUATION OF THE QUALITY OF STUDIES AT THE DF

In the academic year 2018/2019, as in the previous year, the application for the evaluation of the quality of the educational process was launched via the University Information System (UIS). Students could comment via UIS on the quality of the educational process for each of their courses that were included in their personal study plan at the end of the winter and summer semesters. In order to maintain the hierarchy, the access to the evaluation of the course evaluation is given to the teacher (lecturer) himself, the course tutor, the head of the department, the faculty management and the university management. The number of students who have participated in the evaluation of the quality of their studies is shown in Table 8.1. It is not a good sign that after years of increasing % of students involved in assessment, the lack of interest of students as well as lecturers on the subject has again been shown in this A.Y., especially in the LS. It is therefore necessary to continuously pay attention to this area in order to increase student participation in assessment, which, with an appropriate approach, will contribute to improving the quality of the teaching process. In addition to the course evaluation, students had the opportunity to express their overall satisfaction with their studies at the Faculty of Wood Sciences and Technology of TU Zvolen through the website of TU Zvolen. Heads of departments are obliged to monitor these survey results and in case of negative student feedback to solve the problem by individual interview with the concerned lecturer, which is successfully implemented in some departments.

Table 8.1 Overall statistics of the evaluation of the subjects

Period: DF - LS 2018/2019			
Course evaluation			
Potential number of respondents:	1186		
Actual number of respondents:	89		7%
Number of courses duly enrolled in the period:	179		
Number of subjects with answers:	83		46%
Number of subjects with no responses:	96		
Number of completed survey ballots:	331		
Average number of tickets per subject:	1.85		
Additional questions			
Potential number of respondents:	1070		
Actual number of respondents:	50		4%
Period: DF - ZS 2018/2019			
Course evaluation			
Potential number of respondents:	1154		
Actual number of respondents:	218		18%
Number of courses duly enrolled in the period:	197		
Number of subjects with answers:	122		61%
Number of subjects with no responses:	75		
Number of completed survey ballots:	951		
Average number of tickets per subject:	4.83		
Additional questions			
Potential number of respondents:	1099		
Actual number of respondents:	150		13%

II. 10. IMPLEMENTATION OF THE DF EDITORIAL PLAN FOR 2018

The actual implementation of the editorial plan for 2018 is shown in Table 9.1.

Tab. 9.1 Fulfillment of the DF editorial plan for 2018

Type of publication	Planned number	Number submitted	Fulfillment
textbooks	2	0	0 %
Scripts	16	10	63 %
artistic monograph	2	2	100 %
scientific monograph	14	9	64 %
Professional book publication	1	1	100 %

collection of scientific papers	1	1	100 %
Proceedings of the approved GTC	6	6	100 %
other special-purpose publications	1	1	100 %
Total	43	30	70 %

Of these, the following publications were approved and published outside the 2018 Editorial Plan:

▪ **Scripts:**

1. "Anatomy of wood" - media scripts - M. Mamoňová - reprint, paid from DF
2. "Fire protection and safety" - video manual - D. Kačíková - A. Majlingová, 1st edition, covered by KEGA funds
3. "Explosion prevention" - instructions for exercises, 1st edition - E. Mračková, paid from KEGA funds
4. "Personnel Management" - 1st edition - M. Hitka - S. Lorincová - M. Sedliačiková, paid from DF
5. "Financial Accounting" - 1st edition - M. Sedliačiková, paid from DF

▪ **scientific monograph:**

1. "Theoretical, experimental and model analysis of timber buildings from a life cycle perspective" - J. Mitterpach - R. Igaz - Ľ. Krišťák - P. Sedlák - D. Samešová - M. Gajtanska, 1st edition, paid from DF

II. 11. STATUS OF ACCREDITATION OF STUDY PROGRAMMES AND DEVELOPMENT OF INTEREST IN STUDYING AT THE DF

The current status of guarantors/co-guarantors in accredited study programmes at the 1st, 2nd and 3rd level and of habilitation and inauguration committees at the Faculty of Wood Sciences and Technology is presented in Tables 10.1-10.3.

Tab. 10.1 Accredited study programmes of the Faculty of Wood Sciences and Technology (as of 31. 08. 2019) - new accreditation

Degree of study	Field of study	Study programme	Form Study	Length Study	Guarantor /PZ, SG
I.	5.2.42 Timber industry	Wood processing	D,E	3/4	prof. L. Dzurenda doc. I. Klement prof. A. Geffert
		Creation and construction of furniture	D,E	3/4	prof. J. Kúdela doc. R. Réh doc. P. Joščák
		Design and construction of furniture - Volyně	E	4	doc. R. Lagaňa doc. I. Kubovský doc. J. Geffert
		Management of woodworking and furniture production	D,E	3/4	prof. J. Sedliačik doc. M. Hitka doc. Ľ. Krišťák
	5.2.45 Designs and processes for the manufacture of wood products	Wooden buildings	D,E	3/4	prof. J. Štefko prof. L. Reinprecht prof. M. Siklienka
		Wooden buildings - Rails	E	4	doc. A. Rohanová

	3.3.16 Economics and business management	Economics and management of wood processing industry enterprises	D,E	3/4	doc. J. Drábek doc. A. Sujová doc. M. Potkány
	8.3.6 Rescue services	Fire protection and safety	D,E	3/4	prof. D. Kačíková Prof. F. Kacik doc. A. Danihelová
	2.2.6 Design	Furniture and interior design	D	4	doc. M. Ihring prof. J. Veselovský doc. R. Baďura
II.	5.2.42 Timber industry	Wood Engineering	D,E	2/3	prof. L. Dzurenda doc. I. Klement prof. A. Geffert
		Creation and construction of furniture	D,E	2/3	prof. J. Kúdela doc. R. Réh doc. P. Joščák
		Management of woodworking and furniture production	D,E	2/3	prof. J. Sedliačik doc. M. Hitka doc. L. Krišťák
		Production and Utilisation of Wood Products	D	2	prof. L. Reinprecht doc. J. Geffert doc. M. Gajtanska
	5.2.45 Designs and processes for the manufacture of wood products	Wooden buildings	D,E	2/3	prof. J. Štefko doc. R. Lagaňa prof. M. Sikliencko
	3.3.16 Economics and business management	Economics and management of wood processing industry enterprises	D,E	2/3	prof. M. Šupín doc. A. Sujová doc. M. Sedliačiková
	8.3.6 Rescue services	Fire protection and safety	D,E	2/3	prof. D. Kačíková Prof. F. Kacik doc. A. Danihelová
	2.2.6 Design	Furniture and interior design	D	2	prof. J. Veselovský doc. M. Ihring doc. R. Baďura
III.	5.2.43 Wood processing technology	Wood processing technology	D,E	3/4	prof. L. Dzurenda prof. L. Reinprecht doc. I. Klement
	5.2.44 Structure and properties of wood	Structure and properties of wood	D,E	3/4	prof. J. Kudel doc. R. Lagaňa prof. A. Geffert
	5.2.45 Designs and processes for the manufacture of wood products	Designs and processes for the manufacture of wood products	D,E	3/4	prof. J. Štefko, prof. J. Sedliačik doc. P. Joščák
	8.3.6 Rescue services	Fire protection and safety	D,E	3/4	Prof. F. Kacik prof. D. Kačíková, doc. A. Majlingová
	2.2.6 Design	Furniture and housing design	D/E	3/4	prof. Veselovský doc. M. Ihring doc. R. Baďura
Habilitation and inaugurations	5.2.43 Wood processing technology	Wood processing technology	prof. L. Dzurenda/ prof. L. Reinprecht, Assoc. I. Klement		
	5.2.44 Structure and properties of wood	Structure and properties of wood	prof. A. Geffert/ doc. R. Lagaňa, doc. R. Hrčka		
	5.2.45 Designs and processes for the manufacture of wood products	Designs and processes for the manufacture of wood products	prof. J. Kúdela/ prof. J. Štefko, prof. Sedliačik		
	8.3.6 Rescue services	Rescue services	prof. F. Kačík/ prof. D. Kačíková, doc. A. Majlingová		

PZ - staffing (first and second level of study)

SG - Co-guarantor (third level)

Tab. 10.2 Accredited study programmes of the first degree of the Faculty of Wood Sciences and Technology
(as of 31/08/2019)

External Form - Catching up accreditation

Field of study	Name of study programme	Form Study	Length Study	Guarantor /spolugarant
5.2.42 Timber industry	Construction of wooden buildings and furniture	E	3	doc. P. Joščák
	Construction of wooden buildings and furniture (Volyně, Czech Republic)	E	4	
	Furniture production	E	3	
5.2.45 Designs and processes for the manufacture of wood products	Wooden buildings	E	4	prof. J. Štefko
3.3.16 Economics and business management	Business management in the wood processing industry	E	3	doc. J. Drábek

Tab. 10.3 Accredited study programmes of the second degree of the Faculty of Wood Sciences and Technology
(as of 31/08/2019)

External Form - Catching up accreditation

Field of study	Name of study programme	Form Study	Length Study	Guarantor /spolugarant
5.2.42 Timber industry	Furniture and wood products	E	2	prof. J. Kudel
	Wood Engineering	E	2	prof. L. Reinprecht
3.3.16 Economics and business management	Business management in the wood processing industry	E	2	

Tab. 10.4 Accredited study programmes of the Faculty of Wood Sciences and Technology
(as of 31. 08. 2019) - accreditation expiring

Field of Study	Name of study programme	Form Study	Length Study	Guarantor /spolugaranti
5.2.43 Wood processing technology	Wood processing technology	D, E	3, 5	prof. L. Dzurenda / prof. L. Reinprecht, doc. I. Klement
5.2.45 Designs and processes for the manufacture of wood products	Designs and processes for the manufacture of wood products	D, E	3, 5	prof. J. Štefko, /Professor. J. Kúdela doc. P. Joščák
8.3.1 Protection of persons and property	Fire protection and safety	D, E	3, 5	Prof. F. Kacik / prof. D. Kačíková, doc. Danihelová

The following tables present the development of interest in the study of degree I programmes, the numbers of registered and enrolled students and the success rate in completing degree I programmes and the numbers of students continuing their studies in degree II programmes.

Tab. 10.5 Development of interest in the study of study programmes of the first degree - number of enrolled/ planned number of admitted students at the Faculty of Wood Sciences and Technology, University of Technology in Zvolen 2016/2017 - 2019/2020 /status as of 01.10.2019/

Enrolments/admissions plan								
Study programme	2016/2017		2017/2018		2018/2019		2019/2020	
	D	E	D	E	D	E	D	E
5.2.45 Designs and processes for the manufacture of wood products								
Wooden buildings - from 2015/2016	55/60	14/20	44/60	10/20	52/60	17/20	51/60	25/15
Wooden buildings- from 2015/2016 - Volyně	-/-	22/30	-/-	17/20	-/-	22/20	-/-	23/20
Total Designs and processes of wood products manufacturing	55/60	36/50	44/60	27/40	52/60	39/40	51/60	48/35
5.2.42 Timber industry								
Wood processing	10/40	1/20	14/40	1/20	5/30	2/20	6/30	0/10
Creation and construction of furniture	22/40	7/20	22/40	11/20	15/30	11/10	28/30	6/10
Design and construction of furniture - Volyně od. R.2017/2018	-/-	-/-	-/-	8/20	-/-	6/20	-/-	6/20
Management of woodworking and furniture production	6/25	3/20	9/25	0/20	6/20	1/10	3/20	0/10
Total 5.2.42 Wood processing	38/105	11/60	45/105	20/80	26/80	20/60	37/80	12/50
3.3.16 Economics and business management								
Economics and management of wood processing industry enterprises	105/130	16/60	94/130	23/60	79/100	20/40	75/100	14/40
2.2.6 Design								
Furniture and interior design	63/35	-/-	58/35	-/-	51/35	-/-	58/35	-/-
8.3.1 Rescue services-from 2015/2016								
Fire protection and safety - from 2015/2016	177/100	33/60	157/100	42/60	163/100	33/60	133/100	23/40
Total DF	438/430	95/230	398/430	112/240	371/375	110/200	354/375	97/165

Tab. 10.6 Study programmes of the first degree - number of admitted/enrolled students at the Faculty of Wood Sciences and Technology, University of Technology in Zvolen 2016/2017 - 2019/2020
/status as of 01.10.2019/

Study programme	Admitted/enrolled							
	2016/2017		2017/18		2018/19		2019/20	
	D	E	D	E	D	E	D	E
5.2.45 Designs and processes for the manufacture of wood products								
Wooden buildings	55/39	14/10	44/38	10/9	52/39	17/14	51/41	25/20
Wooden buildings - from 2016/17 - Volynč	-/-	18/17	-/-	17/16	-/-	19/19	-/-	23/19
5.2.45 Total	55/39	32/27	44/38	27/25	52/39	36/33	51/41	48/39
5.2.42 Timber industry								
Wood processing	10/5	1/0	14/9	1/0	5/2	2/1	6/5	0/0
Creation and construction of furniture	22/15	7/7	22/21	11/10	15/8	11/9	28/22	6/5
Creation of furniture design (Volyn)			-/-	8/5	-/-	4/4	-/-	6/4
Management of woodworking and furniture production	6/1	3/0	9/8	0/0	6/3	1/0	3/2	0/0
Total 5.2.42	38/21	11/7	45/38	20/15	26/13	18/14	37/29	12/9
3.3.16 Economics and business management								
Economics and management of wood processing industry enterprises	105/63	16/14	94/63	23/20	79/51	20/15	75/51	14/12
2.2.6 Design								
Furniture and interior design from 2016/17	37/32	-/-	38/29	-/-	39/27	-/-	45/36	-/-
8.3.1 Rescue services - from 2015/2016/								
Fire protection and safety - from 2015/2016	164/106	33/29	144/92	42/32	142/88	33/25	133/84	23/17
Total DF	399/261	92/77	365/260	112/92	338/218	107/87	342/240	97/77

Tab. 10.7 Success rate in completing degree programmes - numbers of enrolled 2016/2017, graduates 2018/2019 and continuing studies of degree programmes II at the Faculty of Science of the Faculty of Science of the University of Science and Higher Education of the University of Ljubljana

Department/programme	Enrolled to level I		Alumni		Enrolled to level II	
	2016/2017		2018/2019		2019/2020	
	D	E	D	E	D	E
5.2.42 Timber industry						
Wooden buildings	39	9	17	4	16	2
Wooden buildings/KDSN - Volynč	-	24	-	13	-	1
Wood processing	5	0	2	0	5 (of which 2 from TKN)	0
Creation and construction of furniture/Furniture manufacturing	15	0	9	1	7	0
Management of woodworking and furniture production	1	0	0	0	0	0
Total 5.2.42	60	33	28	18	28	3
3.3.16 Economics and business management						
Economics and Business Management DSP/Business Management in DSP	63	0	36	0	34	0
2.2.6 Design						
Furniture and Interior Design/Furniture Design, Interior Design	35	-	18	-	10	-
8.3.1 Rescue services/8.3.6 Protection of persons and property						
Fire protection of persons and property/Protection of persons and property against fire	164	33	32	9	29	10

Total DF	322	66	114	27	101	13
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Out of 322 full-time students enrolled in the academic year 2016/2017 in the 1st cycle of studies at the Faculty of Wood Sciences and Technology, 114 students successfully completed their studies, which is 35.4%, and 101 students enrolled in the 2nd cycle, which suggests that approximately 89% of students who successfully completed the 1st cycle of studies continued their studies in the 2nd cycle.

In the external form of study, 27 out of 66 students enrolled in the academic year 2016/2017 in the first cycle of study at the Faculty of Wood Sciences and Technology successfully completed their studies. The value of graduates is not relevant because the standard length of study was changed in the external study and some study programmes were accredited with this extended study period.

III. SCIENTIFIC RESEARCH AND ARTISTIC ACTIVITIES

III. 1. INTENTIONS AND IMPLEMENTATION OF SCIENTIFIC RESEARCH AND ARTISTIC ACTIVITIES

The intentions and implementation of scientific research and artistic activities are based on the Long-term plan of the Faculty of Wood Sciences and Technology in Zvolen for the years 2017 - 2023 with a vision to 2030, which was developed in accordance with the requirements of Act No. 131/2002 Coll. on Higher Education and on Amendments and Supplements to Certain Acts and approved by the Academic Senate of the Faculty of Wood Sciences and Technology. The long-term plan is the basic planning document for ensuring the development of the Faculty in all key areas.

The research task of the Faculty of Wood Sciences and Technology is to fulfil its mission by solving research projects and programmes of national and international character with an orientation on the complex use of wood raw material, technology, engineering, economics, security services, art, as well as in other related and application areas. The aim of the Faculty of Wood Sciences and Technology is to be part of an internationally recognised, research-oriented university and to be one of the Slovak leaders in its scientific research focus.

In the field of scientific research, creative and artistic activities, the strategic goal of the Faculty of Wood Sciences and Technology is to achieve internationally accepted results in research and artistic activities and the transfer of knowledge into economic and social practice by 2023. To achieve this goal, the following measures are defined:

- To publish the results of research, creative and artistic activities in an international environment, especially in indexed renowned international scientific journals.
- Strengthen the position of the faculty in scientific research projects of national and international cooperation.
- Build research infrastructure, including skilled staff.
- To deepen the involvement of PhD students in research, creative and artistic activities with the condition of publication in indexed international scientific journals.
- Build and ensure effective dissemination and commercialization of research results through the university's technology transfer centre.
- To popularize and make visible the results of scientific research, artistic and other creative activities of the faculty to the professional public.

The aim of the evaluation of the scientific research and artistic activities of the Faculty of Wood Sciences and Technology is to create an objective account of the activities of the

Faculty for the past calendar year. By evaluating the development in the field of project, scientific research and artistic activities, it can be stated that in 2019 there was a decrease in the number of creative staff, but the qualification structure has improved. The number of projects and the use of scientific research capacity have decreased, but the amount of funding received for projects has increased significantly. The total number of reported publications and reviews decreased overall, but the proportion of publications and reviews in the most valuable categories increased

III. 2. SOLUTION OF SCIENTIFIC RESEARCH PROJECTS

Research projects are an important element in the development of knowledge and the promotion of research in an academic environment. At the Technical University of Zvolen, the organizational directive No. 6/2006 "On the processing of projects supported by the Ministry of Education of the Slovak Republic or from other sources at the Technical University of Zvolen" is in force, the purpose of which is to ensure a uniform procedure in the preparation, processing and implementation of projects in the conditions of the Technical University of Zvolen.

An overview of the projects carried out at the Faculty of Science in 2019 is given in Tables III-1 and III-2.

In 2019, a total of 20 VEGA projects were solved at the Faculty of Wood Sciences and Technology, of which 14 projects had a responsible investigator from the Faculty of Wood Sciences and Technology and 6 projects had staff from the Faculty of Wood Sciences and Technology as members of the research team. VEGA projects solved in the position of the responsible researcher from the Faculty of Science are included in the following committees:
 VEGA No. 8 for Agricultural, Veterinary and Wood Sciences 8 projects,
 VEGA No. 12 for Arts Sciences, Aesthetics and Linguistics 1 project,
 VEGA No. 13 for Economic and Legal Sciences 5 projects.

In the field of university pedagogy, a total of 12 KEGA projects were solved at the Faculty of Wood Sciences and Technology in 2019, 5 in the position of responsible researchers, 3 in the position of responsible researchers for the co-investigating organisation. In another 4 KEGA projects, DF staff were members of the research team at other faculties and departments.

DF staff solved 10 projects of the APVV agency in the position of responsible researchers. Two projects were solved within the framework of the general call for R&D 2014, 3 projects within the framework of the general call for R&D 2016, 4 projects within the framework of the general call for R&D 2017 and one project within the framework of the general call for R&D 2018. Another two projects were funded under the APVV bilateral calls (1x Slovakia-China, 1x Slovakia-Poland).

Based on the development of the number of funded projects, it can be stated that in 2019 there was a year-on-year increase in the number of APVV (+1) and MVTS (+1) and IPA TUZVO (+1) projects. There was a decrease in the number of VEGA (-5) and KEGA (-2) projects. In 2019, DF was involved in the preparation and submission of 4 Operational Programmes projects.

Tab. III-1 Number of research projects solved at the Faculty of Science in 2016-2019

Projects	r. 2016	r. 2017	r. 2018	r. 2019
VEGA	16	24	25	20
KEGA	6	12	14	12
APVV	7	9	11	12

MVTS	4	4	4	5
7. RP	1	-	-	-
OP-SF	-	-	-	-
IPA TUZVO	3	4	1	2
Other	-	-	-	1

Table III-2 gives an overview of the tasks to be solved at the Faculty in 2019 with the researcher capacities and allocated funds.

Tab. III-2 Overview of tasks solved at the Faculty of Wood Sciences and Technology in 2019

Task number	Name of the task	Principal Investigator	Solving capacity in hours		Allocated funds in €	
			Educator. work.	research workers / PhD students	Current expenditure	Capital expenditure
VEGA						
1/0010/17	Controlling in the practice of Slovak enterprises in the context of psychological aspects of perception of its benefits and barriers by internal interest groups	doc. Ing. Mariana Sedliačiková, PhD.	3 500	0 0	7 050	
1/0024/17	A mathematical model of motivation	doc. Ing. Miloš Hitka, PhD.	1 400	0 0	4 826	
1/0320/17	The economic and societal context of Agenda 20/20/20 in terms of the performance of low-energy houses	doc. Ing. Marek Potkány, PhD.	1 850	0 1 000	5 140	
1/0806/17	Innovative applications of modern analytical methods for detection of volatile products of thermal degradation of lignocellulosic and synthetic polymers in safety engineering.	Ing. Veronika Veľková, PhD.	1 700	0 1 500	11 462	
1/0822/17	Modification of wood surfaces and coatings to increase the stability of the wood-coating system	prof. Ing. Jozef Kúdela, CSc.	4 650	200 1 650	13 088	
1/0729/18	Hydrothermal, nano-chemical and biological modifications of wood materials with targeted alteration of their structure and properties	prof. Ing. Ladislav Reinprecht, CSc.	3 350	0 500	12 466	
1/0387/18	Improving the fire protection properties of wood with new fire retardants	prof. RNDr. František Kačík, PhD.	2 500	0 1 000	15 927	
1/0493/18	Progressive methods for assessing the contribution of lignocellulosic materials and products to fire development after fire protection treatments	prof. RNDr. Danica Kačíková, , PhD. , MSc.	2 800	0 2 600	15 631	
1/0485/18	Machining strategies for specific models of agglomerated material separation in nesting milling on a CNC machining centre	prof. Ing. Mikuláš Siklienka, PhD.	2 500	1 000 2 000	5 466	
1/0556/19	Extruded veneer-based wood materials and their application in products	doc. Ing. Jozef Gáborík, CSc.	5 800	1 000 0	12 600	
1/0666/19	Determining the development of a wood-based bioeconomy	doc. Ing. Ján Parobek, PhD.	5 050	0 1 500	7 335	

1/0674/19	Proposal for a model of implementation of eco-innovations into the innovation process of business entities in Slovakia to increase their performance	Ing. Erika Loučanová, PhD.	5 150	0 1 500	8 440	
1/0717/19	Assessment of the environmental impacts of wood-based buildings as a whole in the whole life cycle process	doc. PaedDr. Ľuboš Krišt'ák, PhD.	2 300	0 0	7 386	
2/0106/19	Wooden Pipe Fund of Historical Organ Positives in Slovakia	Ing. Martin Čulík, PhD.	500	0 0	769	
1/0269/16	Intraspecific and interspecific gene flow between forest tree populations as microevolutionary mechanisms	Principal investigator: prof. Ing. D. Gömöry, DrSc., Faculty of Medicine, Faculty of Science. Mgr. J. Schmidtová, PhD.	700	0 0	-	
1/0934/16	Cultural intelligence as an important prerequisite for Slovakia's competitiveness in the global environment	Solving organization: the EFUMB Banská Bystrica Deputy responsible researcher: doc. Ing. Mariana Sedláčiková, PhD.	200	0 0	-	
1/0315/17	Investigation of the relevant properties of thermally modified wood in contact phenomena in the machining process with prediction of obtaining the optimum surface	Principal investigator: prof. Ing. Š. Prof. Ing. Barčík, CSc., FT TUZVO Researchers from Faculty of Wood Sciences and Technology: doc. Ing. R. Hrčka, PhD., Mgr. V. Mgr. Kučerová, PhD., RNDr. T. Hýrošová, PhD.	900	0 0	-	
1/0377/17	Research on the synergistic effect of the interaction of noise and ototoxic substances in hazardous forestry and wood processing plants	Principal investigator: prof. Ing. Prof. M. Schwarz, CSc., FEE TUZVO Solver from Faculty of Wood Sciences and Technology: doc. Mgr. Mgr. M. Němec, PhD.	500	0 0	-	
1/0836/18	Adaptation of forest landscapes as a source of ecosystem services to uncertainties of future development by means of ecological rationality tools	Principal investigator: prof. h.c. prof. Dr. Ing. Viliam Pichler., Faculty of Medicine, Faculty of Science. Mgr. J. Schmidtová, PhD.	300	0 0	-	

1/0318/19	Behavioural aspects of quality and their impact on building a quality culture	Solving organization: the EF UMB Banská Bystrica - doc. Ing. Denisa Malá, PhD. Solver from Faculty of Wood Sciences and Technology: doc. Ing. Prof. Mariana Sedláčiková, PhD.	200	0 0	-	
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KEGA						
009TU Z-4/2017	Building a progressive experimental laboratory for innovating forms of teaching in the study programme Fire Protection and Safety	Ing. Eva Mračková, PhD.	1 500	0 0	3 664	
012TU Z-4/2017	Interactive methods in physics education at technical universities	doc. PaedDr. Ľuboš Krišťák, PhD.	2 400	0 0	3 852	
014TU Z-4/2017	From 2D to 3D and back	doc. akad. sculptor. René Baďura	4 000	0 820	4 833	
022TU Z-4/2017	University textbook Construction of wooden buildings with the support of information technology	prof. Ing. Jozef Štefko, CSc.	3 000	0 0	6 831	
003TU Z-4/2018	Creation of indoor microclimate and heating of buildings with firewood	prof. Ing. Ladislav Dzurenda, PhD.	4 250	1 000 500	9 819	
030UMB-4/2017	Integrated Security Training Centre	Principal investigator: prof. Mgr. Mgr. Juraj Ladomerský, CSc., UMB BB Principal investigator for TUZVO: prof. RNDr. Danica Kačíková, PhD., MSc	400	0 0	5 106	
010TUZ-4/2017	Facilitating reading competence and the teaching of professional foreign languages in technical universities	Principal Investigator: PaedDr. D. Veverková, Ph.D., ÚCJ TUZVO Solvers from DF: Ing. L. Tereňová, PhD., Ing. P. Sedlák, PhD.	1 100	500 0	-	
021TUZ-4/2017	EI-LAB building virtual and remote experiments for environment using MATLAB	Principal investigator: Ing. A. Ďuricová, PhD., FEE TUZVO	1 900	0 0	-	

		Researchers from Faculty of Science: RNDr. O. Vacek, PhD., RNDr. T. Hýrošová, PhD.				
029ŽU-4/2018	Creation of innovative teaching materials in the field of applied physics and experimental measurements for technical subjects of newly accredited study programmes	Principal investigator: doc. PaedDr. Peter Hockicko, PhD., EF ŽU Responsible researcher for DF: doc. Ing. Ivan Kubovský, PhD.	2 700	0 0	6 860	
005TU Z-4/2018	Building a progressive CNC machining workplace to innovate forms of teaching in study programmes at FT	Principal investigator: prof. Ing. Prof. Prof. Štefan Barčík, PhD., FT TUZVO researchers: doc. Ing. R. Kminiak, PhD., Ing. J. Schmidtová, PhD.	900	0 0	-	
032PU-4/2018	eLearning in emergency health care and emergency services	Principal investigator: Ing. Bc. Danka Boguská, PhD. , FZO UNIPO Responsible researcher for DF: doc. Ing. Prof. Andrea Majlingová, PhD.	200	0 0	3 226	
015TU Z-4/2019	Progress and application of educational methods in the field of mechanics of solids	Principal investigator: Ing. M. Minárik, PhD., FT TUZVO Researcher from Faculty of Science: RNDr. O. Vacek, PhD.	450	0 0	-	
APVV - research projects						
APVV-17-0456	Thermal modification of wood with saturated water vapour for the purpose of targeted and stable change of wood colour	prof. Ing. Ladislav Dzurenda, PhD.	2 900	1 300 500	56 076	
APVV-14-0506	Reduction of formaldehyde emission from wood-based boards by environmentally progressive modification of polycondensation adhesives with biopolymers from leather waste, natural nanofillers, additives and activators	prof. Ing. Ján Sedliačik, PhD.	1 500	300 0	30 388	
APVV-14-0869	Research on the use of wood as a renewable raw material in the transition to a green economy	doc. Ing. Hubert Paluš, PhD.	950	0 0	15 320	
APVV-16-0177	Progressive modification of wood surfaces, film-forming agents and their interactions at the phase interface	prof. Ing. Jozef Kúdela, CSc.	4 300	900 1 050	56 158	
APVV-16-0297	Update of the anthropometric database of the Slovak population	doc. Ing. Miloš Hitka, PhD.	2 400	0 2 300	45 481	

APVV-16-0326	New wood flame retardants based on natural compounds and nanoparticles	prof. RNDr. František Kačík, PhD.	5 400	0 2 100	61 555	
APVV-17-0583	Construction and decoration materials based on recycled and modified wood	prof. Ing. Ladislav Reinprecht, CSc.	6 900	0 2 200	63 638	
APVV-17-0005	A systematic approach to the study of fire parameter changes using advanced analytical and forensic methods	prof. RNDr. Danica Kačíková, PhD., MSc.	6 800	0 2 100	61 008	
APVV-17-0206	Ultra-low-energy green buildings based on the renewable raw material wood	prof. Ing. Jozef Štefko, CSc.	5 000	0 2 450	60 467	
APVV-18-0378	Research on innovative methods for crosslinking formaldehyde in wood-based panels by environmentally progressive modification of aminoplasts with biopolymers and additives to support a sustainable circular bioeconomy	prof. Ing. Ján Sedliačik, PhD.	1 350	0 300	31 842	
APVV - bilateral cooperation projects						
EN-CN-2017-2018	Investigation of flammability and fire behaviour of selected polymers for energy-efficient buildings	prof. RNDr. Danica Kačíková, PhD., MSc.	-	- -	3 250	
SK-PL-18-0052	Effect of high-temperature drying conditions in a gas and steam environment on the properties of the dried material and energy consumption	doc. Ing. Ivan Klement, CSc.	-	- -	2 000	

International scientific and technical cooperation projects						
COST Action FP1405	Active and intelligent fibre-based packing - Innovation and market introduction (Active and intelligent packaging systems - Innovation and marketing launch)	doc. Ing. Ján Parobek, PhD.	-	-	0	
COST CA15216	European Network of Bioadhesion Expertise: Fundamental Knowledge to Inspire Advanced Bonding Technologies	prof. Ing. Ján Sedliačik, PhD.	-	-	0	
COST CA16229	European Network for Environmental Citizenship (ENEC) (European Network for Environmental Citizenship)	Ing. Vladislav Kaputa, PhD., Ing. Hana Mátová, PhD.	600	0	0	
COST Action CA 18135	Fire in the Earth System: Science & Society	doc. Ing. Andrea Majlingová, PhD.	-	-	0	
IVF 21830004	International cooperation of the Visegrad Four countries - Phase II, in the application of the V4 test battery in practice and its modification for the needs of current firefighters	doc. PaedDr. Peter Polakovič, PhD.	1 500	0 100	18 016	

IPA projects - FOCCI						
15/2019	Measurement of the acidity of wet wood of White Birch in the process of thermal modification of wood colour by saturated water vapour	Ing. Dudiak Michal	300	0 1000	939	
21/2019	Evaluation of forest certification as a tool to support ecosystem services in Slovakia	Ing. Martina Krahulcová	120	0 500	956	
Other projects						
SEMOD-76-2/2019	Research on wood composites for increasing the level of protection of soldiers - KOCHRAN	doc. Ing. Roman Réh, CSc.	3 929	0 0	31 297	

III. 2.1 SCIENTIFIC RESEARCH CAPACITY OF THE DF AND ITS QUALIFICATION STRUCTURE

The basic scientific research capacity of the Faculty of Wood Sciences and Technology consists of teaching staff and researchers, whose numbers and qualification structure are listed in Tab. III-3.

Tab. III-3 Structure of staff by individual workplace as of 31.12.2019

Workplace	Qualifications								Total	CSc., PhD.
	Teaching staff				THP	Researchers (PIs)				
	Prof.	Doc.	OA with PhD.	OA without PhD.		VP with PhD.	VP work. without PhD.	VP of Labor. HIGH SCHOOL		
KDT	1	2	3	0	4	0	0	0	10	6
KMDG	0	0	7	0	1	0	0	0	8	7
KND	1	3	0	0	2	1,95	0	0	7,95	5,95
KFEAM	0	4	2	0	0,4	0	1*	0	7,4	6
KNDV	1	2	4	0	1	1	0	0	9	8
KEMP	0	5	6,95	0	1	1	0,5*	0	14,45	12,95
KMOSL	1	2,75	5,75	1	1	0	0	0	11,5	9,5
KCHCHT	2	2	3	0	4,6	0	0	0	11,6	7
CODE	2	1	1	0	0	1	0	1	6	5
KPO	1	3	7,5	0	3	0	0	0	14,5	11,5
KDS	1	1	4	0	1	0	0	0	7	6
KDNI	1	3	5	2,75	2	1	0	0	14,75	10
DDF	0	0	0	0	6	0	0	0	6	0
Total 2019	11	28,75	49,2	3,75	27	5,95	1,5	1	128,15	94,9
Total 2018	10	28,75	50,40	3,5	29	6,8	1	1	130,45	99,45
Total 2017	12	29,75	54,70	3	32	6,5	1	1	139,95	102,95
Total 2016	12,25	28,75	57,53	5,46	32	6,95	0	1	143,94	105,48

Note: * 100% project-funded staff (Ing. Lipoldová, Mgr. Murín)

The number of FTEs in the DF decreased year-on-year (-2.3 FTEs). The decrease in FTEs occurred in the positions of assistant professors with PhD (-1.2 FTEs), researchers with PhD (-0.85 FTEs) and THP staff (-2.0 FTEs). The increase in the number of full-time equivalents was mainly at the level of professor (+1.0 full-time equivalents). The changes made have had a positive impact on the qualification structure of the faculty staff.

Tab. III-3a Evolution of the coefficient of the qualification structure of DF staff

year	2016	2017	2018	2019
Qualification structure factor DF	1,4596	1,5103	1,4884	1,5070

The calculation of the research capacity of the Faculty of Science is based on the structure of teaching and research staff of the Faculty of Science and the maximum research capacity in terms of the principles of the VEGA grant agency (teaching staff 1 000 h, research staff 2 000 h, PhD students 2 000 h).

In 2019, the research capacity of the Faculty of Science staff by qualification structure was 107 600 h (see Table III-4), of which teaching staff had a capacity of 92 700 h and research staff 14 900 h. A further 42 000 h comprised the capacity of PhD students. In total, the DF thus had a research capacity of 149 600 h (164 250 h in 2018). The year-on-year decrease in scientific research capacity is mainly due to a decrease in the number of PhD students (-6 students).

Tab. III-4 Scientific research capacity according to the qualification structure of DF staff as of 31.12.2019

Category	DrSc.	CSc./PhD.	Without scientific ranks	Total	VV-capacity h.
<i>Teaching staff</i>					
Professors	0	11	-	11	11 000
Associate Professors	0	28,75	-	28,75	28 750
Professional assistants	0	49,2	3,75	52,95	52 950
Total				92,7	92 700
<i>Research staff</i>					
Research staff	0	5,95	1,5	7,45	14 900
Total				7,45	14 900
<i>PhD students</i>					
Internal PhD students	0	-	21	Total	42 000

The use of the research capacity of the Faculty of Science for all types of research tasks was calculated according to the annual reports of individual grant projects for 2019 and is presented in Table 1. III-5.

Tab. III-5 Utilization of the scientific research capacity of the Faculty of Science in 2019

Workplace	Solving capacity in hours							
	VEGA and KEGA		APVV		Interviewer. proj. + other		Total	
	pedagogy. work.	research work.	pedagogy. work.	research work.	pedagogical work.	research work.	pedagogical work.	research work.
DF	60 900	3 200	37 500	2 500	4 997	1 152	101 430	6 852
LF	1 000	-	-	-	-	-	1 000	-
FEE	2 400	-	-	-	-	-	2 400	-
FT	2 550	-	-	-	-	-	2 550	-
ÚCJ	1 100	500	-	-	-	-	1 100	500
Other universities	1 000	-	-	-	-	-	1 000	-
Total	68 950	3 700	37 500	2 500	4 997	1 152	111 447	7 352
PhD students	-	14 570	-	13 000	-	840	-	28 410
Total	68 950	18 270	37 500	15 500	4 997	1 992	111 447	35 762
Total 2019	87 220		53 000		6 989		147 209	
share	59,25 %		36,00 %		4,75 %		100 %	
Total 2018	123 580		42 968		1 260		167 808	
Total 2017	125 675		30 570		6 200		162 445	

Total 2016	94 700	21 490	6 800	122 990
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The total hours reported for project work in 2019 was 147 209 h, representing a theoretical capacity utilisation of 98.4% (102.2% in 2018). The largest share of theoretical capacity was used to solve VEGA projects at 43.8% (54.9% in 2018). 36.0% (25.6% in 2018) of the research capacity of the Faculty of Wood Sciences and Technology was used on APVV projects, followed by KEGA projects at 15.5% (15.8% in 2018). There was a significant increase in the hours reported for international and other projects (+5,729 h year-on-year). In particular, the increase in the share of capacity used to address APVV projects, international projects and projects categorised as other can be assessed positively.

For teaching staff of the Faculty of Wood Sciences and Technology, the average reported capacity is 1 202 h/staff (120.2% of the theoretical capacity compared to 122.6% in 2018) and for PhD students 1 353 h/doctoral student (67.6% of the theoretical capacity compared to 72.1% in 2018). For researchers, there was a decrease to 987 h/researcher (49.3% of theoretical capacity against 87.0% in 2018).

III. 2.2 FINANCIAL SUPPORT FOR RESEARCH

A recapitulation of the funds allocated and used for the scientific research activities of the Faculty of Science in 2019 is presented in Tables III-6, III-7 and III-8.

Tab. III-6 Allocation of funds for VEGA projects by department in 2019

Department	Project number		Responsible researcher	Allocated funds	Number of projects in the department	Total allocation per department
	TUZVO	Ministry of Education and Science of the Slovak Republic		Common		Common
KEMP	V-17-009-00	1/0010/17	doc. Sedliačiková	7 050	3	17 016
	V-17-010-00	1/0320/17	doc. Potkany	5 140		
	V-17-011-00	1/0024/17	doc. Hitka	4 826		
KPO	V-17-012-00	1/0806/17	Ing. Veľková	11 462	2	27 093
	V-18-009-00	1/0493/18	prof. Kačíková	15 631		
KND	V-17-008-00	1/0822/17	prof. Kúdela	13 088	1	13 088
KDT	V-18-007-00	1/0729/17	prof. Reinprecht	12 466	1	12 466
CODE	V-18-010-00	1/0485/18	prof. Siklienka	5 466	1	5 466
KNDV	V-19-006-00	1/0556/19	doc. Gáborík	12 600	1	12 600
KMOSL	V-19-007-00	1/0674/19	Ing. Loučanová	8 440	2	15 775
	V-19-008-00	1/0666/19	doc. Parobek	7 335		
KFEAM	V-19-005-00	1/0717/19	doc. Krišťák	7 386	1	7 386
KDS	V-19-009-00	2/0106/19	Ing. Čulík	769	1	769
KCHCHT	V-18-008-00	1/0387/18	prof. Kačík	15 927	1	15 927
Total 2019				127 586	14	127 586

Total 2018	135 913	17	135 913
Total 2017	116 282	15	116 282
Total 2016	92 434	12	92 434

In 2019, the number of VEGA projects in the position of the responsible researcher decreased to 14 (year-on-year decrease by 3). In terms of funds allocated, there was a year-on-year decrease of € 8,327 (-9.1%). The average amount of funds allocated per project was € 9,113 (in 2018 it was € 7,995/project). As in previous years, no funds were allocated by the Agency for capital expenditure.

Within the call published in 2019, 6 VEGA projects were submitted to the Faculty of Wood Sciences and Technology.

Table III-7 summarises the overview and status of funding of KEGA projects by the Ministry of Education and Science of the Slovak Republic.

Tab. III-7 Allocation of funds for KEGA projects in 2019

Department	Project number		Principal Investigator	Allocated funds	Number of projects in the department	Total allocation per department
	TUZVO	Ministry of Education and Science of the Slovak Republic				
KPO	K-17-003-00	009TU Z-4/2017	Ing. Mračková	3 664	3	11 996
	K-17-004-00	030UMB-4/2017	prof. Kačíková	5 106		
	K-18-003-00	032PU4-2018	doc. Majlingová	3 226		
KFEAM	K-17-002-00	012TU Z-4/2017	doc. Krišťák	3 852	2	10 712
	K-18-005-00	029ŽU-4/2018	doc. Kubovský	6 860		
KDS	K-17-005-00	022TU Z-4/2017	prof. Štefko	6 831	1	6 831
KDNI	K-17-006-00	014TU Z-4/2017	doc. Baďura	4 833	1	4 833
CODE	K-18-004-00	003TU Z-4/2018	prof. Dzurenda	9 819	1	9 819
Total 2019				44 191	8	44 191
Total 2018				39 026	9	39 026
Total 2017				30 026	7	30 026
Total 2016				15 795	3	15 795

In 2019, 8 KEGA projects were solved at the Faculty of Science in the position of responsible researcher or responsible researcher for a co-investigator organisation (year-on-year decrease by 1). Nevertheless, the total amount of funds allocated increased year-on-year by € 5 165 (+13.2%). On average, € 5 524 was allocated per project in 2019 (€ 4 336/project in 2018). As in previous years, no capital funds were allocated in KEGA projects. Under the call published in 2019, 4 KEGA projects were submitted to the DF. Table III-8 shows the distribution of funds allocated to address KEG projects in 2019.

Tab. III-8 Allocation of funds for APVV projects in 2019

Department	Project number		Principal Investigator	Allocated funds	Number of projects	Total departmental allocations
	TUZVO	Ministry of Education and Science of the Slovak Republic				
KCHCHT	06K1165	APVV-16-0326	prof. Kačík	61 555	1	61 555
KMOSL	O-15-120/0002-00	APVV-14-0869	doc. Paluš	15 320	1	15 320
KDT	06K1171	APVV-17-0583	prof. Reinprecht	63 638	2	65 638
	06K1176	SK-PL-18-0052	doc. Clement	2 000		
KDS	06K1175	APVV-17-0206	prof. Štefko	60 467	1	60 467
KND	06K1168	APVV-16-0177	prof. Kúdela	56 158	1	56 158
KNDV	06K1155	APVV-14-0506	prof. Sedliačik	30 388	2	62 230
	06K1179	APVV-18-0378	prof. Sedliačik	31 842		
KEMP	06K1167	APVV-16-0297	doc. Hitka	45 481	1	45 481
KPO	06K1173	APVV-17-005	prof. Kačíková	61 008	2	64 258
	06K1169	EN-CN-2017-2018	prof. Kačíková	3 250		
CODE	06K1174	APVV-17-0456	prof. Dzurenda	56 076	1	56 076
Total 2019				487 183	12	487 183
Total 2018				355 623	10	355 623
Total 2017				253 287	7	253 287
Total 2016				198 729	5	198 729

In 2019, 10 scientific research projects and two bilateral APVV projects were solved by the staff of the Faculty of Science. In terms of allocated funds, there was a year-on-year increase of 131 560 € (+37.0%). On average, 48 193 € were allocated per APVV scientific research project (35 246 €/project in 2018).

In 2019, in the framework of the public call VV2019, the DF is involved in 7 submitted projects (6 as applicant and 1 as co-organisation).

Last year, the PhD students of the Faculty of Science received two funded grants from the internal project agency IPA at TU Zvolen (Table III-9).

Tab. III-9 Allocation of funds for IPA HERE projects in 2019

Department	Project number	Principal Investigator	Retrieved from funds in €	Number of projects	Allocated funds per department total in €
			Common		Common
CODE	15/2019	Ing. Dudiak	939	1	939
KMOSL	21/2019	Ing. Krahulcová	956	1	956
Total 2019			1 895	2	1 895

Table III-10 summarises the evolution of the amount of funding allocated to all projects in the DF in 2016-2019.

The overview shows a significant year-on-year increase in the volume of funding, especially in the APVV projects. There was also an increase in allocated funds for MVTs,

KEGA, IPA TUZVO and other projects (1 project funded by the Ministry of Defence of the Slovak Republic). There was a slight decrease in allocated funds only in VEGA projects. As in the previous year, the top team "WoodMat" was supported by a direct subsidy of the Ministry of Education and Science in the amount of 24 000 €.

The total year-on-year increase in funding received for all projects and tasks is € 178 706 (+32.2%).

Tab. III-10 Evolution of the volume of funds allocated to all projects in 2016-2019 in €

Projects	r. 2016	r. 2017	r. 2018	r. 2019
VEGA	92 434	116 282	135 913	127 586
KEGA	15 795	30 389	39 026	44 191
APVV	198 729	253 287	355 623	487 183
MVTS	12 800	3 200	0	18 016
7. RP	22 230	0	0	0
IPA TUZVO	2 530	3 477	900	1 895
Other	0	8 000	0	31 297
Top team "WoodMat"	-	-	24 000	24 000
Total	344 518	414 635	555 462	734 168

III. 2.3 INTERNAL PROJECT AGENCY OF THE FACULTY OF WOOD SCIENCES AND TECHNOLOGY

Based on the need for development and targeted support of scientific, research, pedagogical, artistic and other activities at the Faculty of Wood Sciences and Technology of the Technical University of Zvolen, the Internal Project Agency of the Faculty of Wood Sciences and Technology (IPA DF) was established. IPA DF is established as a professional entity of the faculty, which, among other things, purposely supports with financial means significant publishing and artistic activities of the faculty staff.

There is a permanent open call for applications for funding for the costs associated with the publication of accepted scientific papers in the journals of the Current Contents Connect (CCC) database maintained by Web of Science in journals ranked in quartiles Q1 and Q2. The aim of this call is to support the publishing and artistic activities of the staff of the Faculty of Wood Sciences and Technology by subsidising the costs associated with the publication of papers in the CCC database journals or significant artistic outputs. The call and the application form are available on the website of TUZVO (<https://df.tuzvo.sk/sk/narodne-projekty>).

In 2019, 20 applications for co-financing of publications included in the CCC database were supported by the DF management. A list of supported publications is provided in Table III-11. A total of €12,578 was used to support publications in 2019.

In the previous year 2018, a total of 21 publications were supported under the IPA DF call for a total amount of € 8,102.

III. 3. PUBLISHING AND ARTISTIC ACTIVITIES

III. 3.1 PUBLICATION ACTIVITY

The collection, categorization, registration and archiving of publication activities of teaching and scientific staff of the Faculty of Science of the Technical University of Zvolen is carried out in accordance with the Decree of the Ministry of Education, Science and Higher Education of the Slovak Republic No. 456/2012, and the internal Organizational Directive of the Technical University of Zvolen No. 7/2013.

Category groups A1, A2, B, C and D are defined groups of publication categories according to the Methodology for the allocation of state budget subsidies for public universities. This breakdown is important from the point of view of the allocation of funds, with the size of the financial contribution within the subsidy being in the order B, C, A1, A2 and D (in descending order).

In Tab. III-12 the publication activity is evaluated by individual departments of the Faculty of Wood Sciences and Technology according to the SLDK records.

Tab. III-12 Overview of publication activity by DF departments in 2019

Code	Publication category	KDT	KMDG	KND	KFEAM	KNDV	KCHCHT	KDNI	KDS	CODE	KEMP	KMOSL	KPO	Σ DF 2019	Σ DF 2018	Σ DF 2017	Σ DF 2016
A1	AAA, AAB, ABA, ABB, ABC, ABD	1	1	1	1	3	-	-	-	-	5	-	1	10	12	18	16
A2	ACA, ACB, BAA, BAB, BCB, BCI, EAI, CAA, CAB, EAJ, FAI	1	3	-	-	1	2	2	2	3	7	1	2	21	47	31	38
B	ADC, ADD, BDC, BDD, CDC, CDD, AGJ	15	8	3	10	5	16	3	-	4	8	1	9	59	67	45	42
C	ADM, ADN, BDM, BDN	8	3	5	1	6	4	2	3	4	16	5	6	50	52	55	53
D	ACC, ACD, ADE, ADF, AEC, AED, AEG, AEH, AFA, AFB, AFC, AFD, AFE, AFF, AFG, AFH, AEM, AEN, BBA, BBB, BCK, BDA, BDB, BDE, BDF, BEC, BED, BFA, BFB, BGH, CBA, CBB, CDE, CDF	8	4	5	1	17	5	22	12	12	36	37	35	179	313	264	256
X	Uncategorized	-	-	-	2	1	1	2	1	-	4	6	4	21	20	32	33
	Total	33	19	14	15	33	28	31	18	23	76	50	57	340	511	445	438

Note Group A1Book publications in the nature of scientific monographs
Group A2Other book publications
Group BPpublications in peer-reviewed scientific journals, author's certificates, patents and discoveries
Group CPpublications that are not peer-reviewed but are registered in WoS or Scopus databases
Group Essential publications
Group XUncategorized

In all groups of publication categories, there has been a decline in the number of reported publications, with a global decline of 31.6%. The most significant decrease is in category D (-42.8%), which is the least valuable in terms of funding. One of the reasons for the decrease in the number of reported publications may be the postponement of the cut-off date for the registration of publications.

The increase in the number of reported publications in the ADC category (scientific papers in peer-reviewed journals), where there is an increase of 2.2%, can be positively evaluated. The ADC category is the most valuable in terms of the amount of the subsidy, with

the financial contribution depending on the classification in quartiles according to the JCR (WOS) and SJR (Scopus) databases.

In Tab. III-12a and III-12b is an overview of the number of reported publication outputs in journals registered in the CCC database classified into individual quartiles according to JCR and the number and classification of outputs in the AGJ category.

Tab. III-12a Number of publications in the CCC database by quartile

Reporting year	Q1	Q2	Q3	Q4	Together
2019*	7	33	6	1	47
2018	9	33	3	1	46
2017	5	30	2	2	39
2016	5	25	4	1	35

Note: *The ranking of publications for 2019 is according to the quartile assigned for 2018

Tab. III-12b Structure of reported outputs in the AGJ category (patents, utility models, designs, trademarks)

Reporting year	patents	benefit. Designs	designs	protection stamps	Together
2019	1	1	10	0	12
2018	1	5	15	0	21
2017	0	0	4	0	4
2016	3	0	3	0	6

Tab. III-13 Overview of responses by DF departments registered in 2019

Code	Category of responses and i.	KDT	KMDG	KND	KFEAM	KNDV	KDS	KCHCHT	KDNI	CODE	KEMP	KMOSL	KPO	Σ DF 2019	Σ DF 2018	Σ DF 2017	Σ DF 2016
1	Citations in foreign publications registered in Web of Science and SCOPUS citation indexes	101	40	114	91	83	14	126	7	65	323	61	105	905	779	492	645
2	Citations in domestic publications registered in Web of Science and SCOPUS citation indexes	16	5	23	12	9	1	28	1	29	8	6	18	123	146	206	195
3	Citations in international publ. not. in citation indexes	14	8	7	12	17	-	2	1	7	62	22	6	138	156	183	241
4	In-house citations. publ. no. in citation indexes	18	10	19	19	15	2	23	13	19	22	7	26	147	371	303	488
5	Reviews in foreign publications	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0
6	Reviews in domestic publications	-	-	-	-	-	-	-	2	-	-	-	-	2	0	2	0
7	Art criticism foreign	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0
8	Art criticism domestic	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0
9	Award for artistic activity (acclaim)	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	7
Total DF in 2019		149	63	163	134	124	17	179	24	120	415	96	155	1315			
r. 2018		185	67	158	136	153	5	240	16	172	348	130	191	1452			
r. 2017		139	46	141	100	142	21	134	10	86	355	99	172	1186			

r. 2016	167	27	241	62	195	63	119	16	162	439	92	175	1569
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In Tab. III-13 is a detailed overview of the number of citations and responses registered in 2019, divided into individual departments of the Faculty of Wood Sciences and Technology, as prepared from the SLDK data. Year-on-year, a decrease in the total number of registered citations is observed (-9.4%), with the decrease being most significant in category 4. Positively, there was a significant increase in citations in category 1 - foreign citations registered in WoS and Scopus (+16.2%).

Searching and registering citations and references, especially from the Web of Science and Scopus databases, should be given due attention on a permanent basis.

III. 3.2 ARTISTIC ACTIVITIES

The outputs of artistic activities are evaluated in accordance with Decree 456/2012 of the Ministry of Education and Science of the Slovak Republic of 18 December 2012 on the central register of publication activities and the central register of artistic activities and are an integral part of the evaluation of the university and the basis for calculating the amount of the subsidy.

In Tab. III-14 gives an overview of the artistic activity for the period under review, as produced by the staff of the Department of Furniture and Interior Design, which is the only department at TUZVO to show outputs in the field of artistic activity. The outputs listed in the table are still subject to control by the Council of Guarantors of Art Universities in the CTI SR.

Table III-14 Overview of reported artistic activity (KDNI) for 2016-2019

Total in the group				Group Z - Major works of art and performances				
2016	2017	2018	2019	ZYV	ZVV			
10	5	4	4	2	2			
				Group Y - Minor works of art and performances				
				YZV	YYX	YYV	YXV	YVV
15	10	7	18	4	5	1	7	1
				Group X - Other works of art and performances				
				XZV	XYV	XXV		
6	5	7	21	6	2	13		

In 2019, there was a significant increase in the number of reported artistic outputs. However, this increase will not be reflected in the subsidy calculation until two years from now. The trend in the share of DF's reported artistic activity in national terms has been on a long-term downward trend. In 2019, the share of DF HERE (KDNI) in the artistic production reported by universities in national terms was 0.332%, which is a year-on-year decrease of 38.3% (for the calculation of the share of artistic production in 2019, the outputs registered in 2016 and 2017 are evaluated).

Tab.III-14a Share of TUZVO (KDNI) in the total reported artistic output of Slovak public universities (source www.minedu.sk)

Year	2016	2017	2018	2019
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Share (%)	1,107	0,774	0,538	0,332
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III. 3.3 SCIENTIFIC JOURNAL ACTA FACULTATIS XYOLOGIAE ZVOLEN

The journal **Acta Facultatis Xyologiae Zvolen (AFXZ)** is a continuation of the periodical "Proceedings of Scientific Works" of the Faculty of Forestry and Wood Technology of the University of Forestry and Wood Technology, the first issue of which was published in 1958. It publishes original peer-reviewed theoretical and experimental scientific papers in the areas of: wood structure and properties, wood processing, machining, drying, modification and protection processes, thermal stability, combustion and fire protection, furniture construction and design, wooden building structures, economics and management of the wood processing industry. It also provides space for the presentation of opinions in the form of reports and book reviews by national and international authors. It is published on the TUZVO website (<https://df.tuzvo.sk/sk/acta-facultatis-xyologiae-zvolen>) and is indexed in the databases Web of Science, Scopus, ProQuest, Agricola and Scientific Electronic Library. It has been assigned the international standard serial number **ISSN 1336-3824**, and since issue 2/2015, each published article is assigned a **DOI** (Digital Object Identifier) number.

The AFXZ Editorial Board in 2019 consisted of:

prof. Ing. Ján Sedliačik, PhD. - Chairman
 prof. Ing. Ladislav Dzurenda, PhD. - scientific editor
 prof. RNDr. Danica Kačíková, PhD. , MSc. - member
 prof. RNDr. František Kačík, PhD. - member
 prof. Ing. Ing. Jozef Kúdela, CSc. - member
 prof. Ing. Ladislav Reinprecht, CSc. - member
 prof. Ing. Jozef Štefko, CSc. - member
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 prof. dr. hab. eng. Kazimierz Orlowski - Poland
 prof. Dr. Franc Pohleven - Slovenia
 prof. Ing. František Potůček, CSc. - Czech Republic
 prof. dr. hab. dr. h.c. Włodzimierz Prądyński - Poland
 prof. Dr. Alfréd Teischinger - Austria
 prof. dr. hab. eng. Jerzy Smardzewski - Poland
 Dr. h.c. prof. Ing. Mikuláš Šupín, CSc. - Slovakia
 prof. Dr. Richard P. Vlosky - USA
 prof. Dr. Rupert Wimmer - Austria

In 2019, two issues of **Acta Facultatis Xylologiae Zvolen** were published (Vol. 61, No 1/2019 and Vol. 61, No 2/2019), in which a total of 30 articles were published. The content and full texts of the published articles are freely available on the website: <https://df.tuzvo.sk/sk/archive-afxz>.

II. 4. SCIENTIFIC AND PROFESSIONAL EVENTS

An important form of presentation of the results of the research of the Faculty of Wood Sciences and Technology to the professional public, as well as confrontation and constructive discussion of the results with other authors, is the presentation of the results at scientific and professional events. In addition to the participation of our staff in such events, the Faculty of Wood Sciences and Technology organizes or co-organizes a number of scientific and professional events each year. An overview of the events organized in 2019 by department can be found in Tables III-15 and III-16.

Tab. III-15 Scientific and professional events in 2019

Department	Name	type	Participation	Deadline
	sponsor		Total/incl.	Place
DF	60th Annual Student Scientific and Professional Activities doc. Ing. Iveta Čabalová, PhD., Chairman of the ŠVOČ Council	by	150/50	6.5.2019 TU Zvolen
KMDG	Geometry of natural shapes and their application in design Ing. Denisa Lizoňová, ArtD.	wo	20/0	22. - 23.1.2019 TU Zvolen
KDS	Wood, straw and clay in sustainable construction prof. Ing. Jozef Štefko, CSc.	by	108/0	25.11.2019 TU Zvolen
	Acoustics 2019 KPO DF - doc. RNDr. Anna Danihelová, PhD. KDS DF - Ing. Martin Čulík, PhD.	by	55/18	16. - 18.10.2019 High Tatras
KMOSL	Don't be wood in online marketing! Ing. Miroslava Triznová, PhD.	with	not registered	19.11.2019 TU Zvolen
KCHCHT	Seminar on the project APVV prof. RNDr. František Kačík, PhD.	with	24/0	23.10.2019 TU Zvolen
KND	Interaction of wood with different forms of energy Ing. Miroslava Mamoňová, PhD.	with	20/3	27.2., 28.2., 27.5., 30.5., 12.12.2019 KND TU Zvolen
KDT	Seminar on the project APVV prof. Ing. Ladislav Reinprecht, CSc.	with	12/0	31.5.2019 TU Zvolen
KDNI	Professor Jindřich Halabalu Prize 2019 Mgr. Ľuboš Gajdoš, ArtD.	from	83/6	07.11.2019 SNG Zvolen Castle
	Creativity in design IV./one dimension more Mgr. Elena Farkašová, PhD. Ing. Roman Nôta, PhD. doc. akad. sculptor. René Baďura	by	130/4	06.11. - 07.11.2019 TU Zvolen
KEMP	Week of theory and practice doc. Ing. Andrea Sujová, PhD.	sy	192/0	11. - 22.11.2019 TU Zvolen
	Economics, Management and Technology in Enterprises 2019 doc. Ing. Miloš Hitka, PhD.	by	50/11	9. - 10.05.2019 TU Zvolen

KPO	Aircraft accident rescue activities in the Slovak Republic Ing. Martin Zachar, PhD.	wo	102/0	22.10.2019 TU Zvolen
	A new approach to the investigation of the causes of fires and accidents in the Slovak Republic Ing. Martin Zachar, PhD.	wo	60/0	20.3.2018 TU Zvolen
	Seminar on ongoing APVV projects prof. RNDr. Danica Kačíková, PhD. , MSc.	with	27/3	23.10.2019 TU Zvolen
	Seminar on the VEGA project Ing. Veronika Veľková, PhD.	with	23/0	23.10.2019 TU Zvolen
	Firefighting units 2019 DPO SR, HaZZ SR, KPO DF TUZVO Mgr. Ing. Ivan Chromek, PhD.	by	240/20	05.10.2019 Martin
	Heat - Fire - Materials 2019 prof. RNDr. Danica Kačíková, PhD. , MSc. doc. Ing. Andrea Majlingová, PhD.	by	145/4	21. - 23.10.2019 TU Zvolen
	Advances in Fire & Safety Engineering 2019 KPO DF TU in Zvolen - Ing. Martin Zachar, PhD. University of Žilina - doc. Ing. Vladimír Mózer, PhD. MTF STU BA - doc. Ing. Jozef Martinka, PhD.	by	62/3	19. - 20.11.2019 ŽU Žilina
	Colloquium on the KEGA project Ing. Eva Mračková, PhD.	kol	24/1	23.10.2019 TU Zvolen

Note: co-conference, symposium, seminar, exhibition, colloquium, workshop, pre-lecture

Tab. III-16 Other events organised at the DF in 2019

Department	Name	type	Participation	Deadline
	(guarantor)		Total/incl.	
DDF	Open Day Ing. Adrián Banský, PhD.	pr	150/0	28.01.2019 TU Zvolen
	Night of the Faculty of Wood Sciences and Technology prof. Ing. Ján Sedláčik, PhD.	pr	250/0	13.11.2019 TU Zvolen
KMDG	Secondary school mathematics course RNDr. Andrej Jankech, PhD.	to	80/0	16. - 20.09.2019 TU Zvolen
KPO	Admission to the "Firefighter's Guild 2018" Mgr. Ing. Ivan Chromek, PhD.		60/0	20.05.2019 TU Zvolen
	Iron Fireman 2019 18th year of the competition "For the KPO Traveling Cup" Mgr. Ing. Ivan Chromek, PhD. Ing. Eva Mračková, PhD.	are	52/2	28.11.2019 TU Zvolen
	Florian Days 2019 prof. RNDr. Danica Kačíková, PhD. , MSc. doc. Ing. Andrea Majlingová, PhD.	as	73/0	10.05.2019 TU Zvolen
	Children's Firefighting University 2019 KPO DF TU in Zvolen - prof. RNDr. Danica Kačíková, PhD. , MSc. DPO SR HaZZ	with	70/0	03.10. - 28.11.2019 TU Zvolen

Note: as- academic festival, competition, pr-presentation, course, se - seminar

III. 5. STUDENT SCIENTIFIC, PROFESSIONAL AND ARTISTIC ACTIVITIES

III. 5.2 ARTISTIC ACTIVITIES

In 2019, under the patronage of the Dean of the Faculty of Wood Sciences and Technology, the 60th Anniversary Conference of Student Scientific and Professional Activities was held. A total of 96 papers were submitted to the conference and 150 participants attended. The Council of the School of Scientific Research, whose chairwoman was Assoc. Ing. Iveta Čabalová, PhD., divided the papers into the following seven sections: doctoral section, technological-technical section, fire protection and safety section, marketing, business and innovation management section, economics and business management section, art and design section, high school section and language subsection. Apart from students from our university, students from six foreign universities and two universities from Slovakia (University of Pardubice (Czech Republic), Warsaw University of Life Sciences - SGGW (PL), University of Sopron (HU), National University of Public Service - Budapest (HU)) participated in ŠVOČ, Mendel University in Brno (CR), Tomas Bata University in Zlín (CR), Slovak Technical University - Faculty of Materials Technology STU BA based in Trnava (SR), University of Žilina in Žilina (SR), Matej Bel University in Banská Bystrica (SR)). Four secondary schools were represented in the secondary school section (SSUŠ Zvolen, SOŠ dřevárska Zvolen, SOŠ dřevárska Topoľčany and SOŠ sv. Jozef Robotníka Žilina). Table III.17 shows the number of entries in each section.

In the previous year, 59 works were submitted.

Tab. III-17 Number of SVOČ papers in the relevant sections in 2019

	DF TU Zvolen	Other Slovak Universities	Foreign universities	Secondary schools	Total
Doctoral Section	7	-	6	-	13
Technology- technical section	6	1	10	-	17
Fire Protection and Safety Section	3	6	-	-	9
Marketing, Business and Innovation Management Section	16	1	-	-	17
Section of Economics and Business Management	3	2	4	-	9
Art and Design Section	9	-	1	-	10
Secondary school section	-	-	-	18	18
Language subsection	-	-	3	-	3
Total	44	10	21	18	96

Results in individual sections:

Doctoral Section

1st place. Md. Mostafizur Rahman (University of Pardubice, Czech Republic), thesis title: "Effect of temperature on pulp layer properties and washing efficiency".

2nd place: Martin Bednár (TU Zvolen, Slovakia), thesis title: 'Contribution of graphite in EPS to the formation of volatile substances'.

3rd place: Michal Andrejko (TU in Zvolen, Slovakia), thesis title: 'Colour changes of beech wood surface after CO₂ laser treatment'.

Technology - Technical Section

1st place: Ivan Vozaf (TU in Zvolen, Slovakia), thesis title: 'Surface treatment of furniture doors'.

2nd place: Wojciech Cheć (SGGW, Poland), thesis title: "Effect type of hardener on mechanical properties of selected pine wood stabilized epoxy resin".

3rd place: Jiří Veselý (Mendel University, Czech Republic), thesis title: 'Deformation analysis of the trunk during felling'.

Fire Protection and Safety Section

1st place: Peter Godovčin (STU MTF Trnava, Slovak Republic), thesis title: 'Study of sorption properties of materials in the capture of operating liquids'.

2nd place: Katarína Bullová (TU Zvolen, SR), thesis title: 'Comparison of different methods of extraction of combustion accelerators'.

3rd place: Milan Ostrihoň (TU in Zvolen, Slovakia), thesis title: 'Influence of selected meteorological elements on the moisture content of forest fall and the risk of forest fires'.

Marketing, Business and Innovation Management Section

1st place: Anna Kocianová (TU in Zvolen, Slovakia), thesis title: 'Tasting as a sales promotion tool'.

2nd place: Samuel Janík (TU in Zvolen, SR), thesis title: 'Effective promotion to increase interest in studying at MTF STU'.

3rd place: Zuzana Dančová (TU in Zvolen, Slovakia), thesis title: 'Perception of green innovations in Slovakia'.

Section of Economics and Business Management

1st place: Olha Kotsar (UMB Banská Bystrica, SR), thesis title: 'Slovak bussines sector for foreigners'.

2nd place: Jakub Dokoupil (UTB Zlín, Czech Republic), thesis title: 'Use of discrete simulation for warehouse capacity analysis'.

3rd place: Natália Latináková (TU in Zvolen, Slovakia), thesis title: 'Factors influencing the availability of housing loans in a selected banking institution for financing wooden buildings'.

Art and Design Section

1 place: collective of authors Laura Vonsová, Erik Jeremiáš, Nikoleta Hodulová, Tomi Hakasaari, Eetu Sorvoja, Eelis Pihlajaniemi Martina Maszticsová, Marcela Šimonffyová, Olga Boridko, Mauri Nivala, Eetu Sorvoja, Eelis Pihlajaniemi (TU Zvolen, SR) , title of the work: "Biomimicry interior".

2nd place: collective of authors David Rusnák, Ivan Jedinák, Matej Záborský, Edgar Ondroušek, Martina Pančíková, Slavomíra Fodorová, Ľuboslava Vrábcová (TU in Zvolen, Slovakia), title of the work "Fragments of student works" (exhibition stand).

3rd place: Lenka Bognárová and Karolína Marcoňová (TU in Zvolen, Slovakia), the title of the thesis: "Design of the presentation space for the exhibition of student works".

Language subsection

1st place: Karolína Froncová (TU in Zvolen, SR), thesis title: "Proposal of system measures for improvement of reverse logistics in industrial enterprise".

2nd place: Martina Maszticsová (TU in Zvolen, Slovakia), thesis title: 'Biomimicry'.

3rd place: Olha Kostar (UMB Banská Bystrica, SR, thesis title: "Slovak business sector for foreigners".

Secondary school section

1st place: Daniel Fečo (SOŠ sv. Jozef Robotníka Žilina, SR), title: 'Cello - from vision to the tones of melody'.

2nd place: Marián Hriňo (SOŠ drevárska Zvolen, SR), title of the work: 'RTV coffee tables'.

3rd place: Veronika Kamenská (SSUŠ Zvolen, SR), title: "Where do animals live?"

Other awards given:

The ZSVTS Prize was awarded to Jakub Anđel, a student of the Faculty of Wood Sciences and Technology at the Technical University in Zvolen (Technology and Engineering Section) with his work: Possibilities of production of particleboards based on lignocellulosic raw material - *Miscanthus sinensis Zebrinus*.

The Dean's Prize was awarded to Alexandra Bohunicka, a student of the Slovak University of Technology in Bratislava (Technology and Engineering Section) with the topic Supercritical Fluid Extraction (SFE/CO₂): the influence of temperature and size of parts.

The winners received financial prizes and other prize winners received material prizes and subscriptions to the magazine "Drevársky Magazín".

III. 5.2 STUDENT COMPETITION "PROFESSOR JINDŘICH HALABALU PRIZE 2019"

The Professor Jindřich Halabala Award is awarded on the basis of a competition to a student or a team for the best project in the field of furniture and interior design created within the framework of a study (studio work). The competition bears the name of Jindřich Halabala, a prominent personality of furniture design in the former Czechoslovakia in the 20th century. Through his pedagogical work at the University of Forestry and Woodworking in Zvolen, he influenced the establishment and direction of the current Department of Furniture and Interior Design of the Faculty of Forestry and Woodworking at TUZVO.

The competition "Professor Jindřich Halabalu Award" is held alternately in Slovakia and the Czech Republic. Its professional guarantors and organisers are the Technical University in Zvolen (odd years) in Slovakia and the Mendel University in Brno (even years) in the Czech Republic.

86 students with 82 works from six universities and colleges (TU in Zvolen (SR), University of Fine Arts Bratislava (SR), Moholy-Nagy University of Art and Design Budapest (HU), Mendel University in Brno (CR), Slovak University of Technology Bratislava (SR), Technical University Košice (SR)) participated in the 15th year of the competition organized at the TUZVO. 28 works were selected for the second round of the competition, which were adjusted within the permanent exhibition at the Zvolen Castle.

Results of the competition "Professor Jindřich Halabala Prize 2019" (15th year)

1st category Furniture design - term papers

Main prize: author: Mgr. Edgar Ondroušek, Technical University of Zvolen.

Honorable mention: author: Bc. Radovan Labaš, Academy of Fine Arts Bratislava.

2nd category Furniture design - final theses of 1st and 2nd level

Main prize: author: Bc. Simon Galanský, University of Fine Arts Bratislava.

Honorable mention: author: Bc. Peter Kušnír, Technical University Košice.

3rd category Interior design - semester works

Main prize: author: Mgr. Mgr. Karolína Štefániková, Technical University of Zvolen.

Honorable mention: author: Bc. Katarína Csúzová, Technical University of Zvolen.

4th category Interior design - final theses of 1st and 2nd level

Main prize: author: Mgr. art. art Katarína Nagyová, Slovak University of Technology Bratislava.

Special Prize of the Industrial Property Office of the Slovak Republic

author. Simon Galanský, Academy of Fine Arts Bratislava.

IV. EXTERNAL RELATIONS OF THE FACULTY OF WOOD SCIENCES AND TECHNOLOGY

IV. 1. EXTERNAL RELATIONS AND INTERNATIONAL COOPERATION OBJECTIVES

According to the Long-term plan of the Faculty of Wood Sciences and Technology (DF) of TU Zvolen in the field of public relations, national and international cooperation for the years 2017-2023, the strategic goal is to build a positive image of the Faculty and strengthen national and international cooperation. The achievement of the strategic goal is realized through the following tasks:

- a. To popularize the results of scientific research, pedagogical and other activities of the faculty to the general public.**

Indicator: number of faculty outputs and events and number of participants.

- b. Strengthen communication with the media and the public and promotion/marketing of the faculty.**

Indicator: number of media outputs and responses to the activities of the faculty, position in rankings of universities and research institutions.

- c. Strengthen cooperation with economic and social practice - from private industry to public institutions.**

Indicator: Number of cooperation contracts and count of their implementation. Participation of faculty members in expert committees and councils.

- d. Promote student and staff mobility.**

Indicator: Percentage of students and staff undertaking student and staff mobility or work experience abroad.

- e. Strengthen cooperation with professionally and professionally close departments of V4 and EU universities and international organisations.**

Indicator: number of joint scientific publications registered in CCC, Web of Science, joint projects, participation in COST.

The present report summarises the activities carried out in the field of external relations at the Faculty of Wood Sciences and Technology in 2019, assesses the implementation of the tasks carried out so far and proposes measures for further improvement of external relations and international cooperation. The deduction of the fulfilment of individual tasks or their partial fulfilment in 2019 is related to the development of the university environment as well as a number of influences of the economic and social environment.

Activities in the field of external relations and building international cooperation of the Faculty of Wood Sciences and Technology in Zvolen are focused on expanding contacts and cooperation of the Faculty with foreign and domestic partners and workplaces, participation in international scientific, artistic, higher education organizations, participation of faculty employees in international projects of science, teaching, research and development, and to increase the visibility and strengthen the position of the Faculty of Wood Sciences and Technology in the national as well as international educational and scientific research space. The basis for the development of the Faculty's external relations and cooperation has long been the individual cooperation of employees and departments with partners in the Slovak Republic and abroad.

IV. 2. STUDENT AND TEACHER MOBILITY

Cooperation between the Faculty of Wood Sciences and Technology and foreign partners in the field of student and teacher mobility is implemented on the basis of implementing agreements and cooperation programmes. Within the ERASMUS+ programme, approximately 40 bilateral agreements are available for student and teacher mobility at the Faculty of Wood Sciences and Technology, based on overlapping fields of study. Thanks to the expansion of contacts and international cooperation at the individual departments of the Faculty of Wood Sciences and Technology as well as at the University, the number of Inter-institutional cooperation agreements are steadily increasing. The most important partners of the DF include the following universities.

Foreign university	State	Area of cooperation
Salzburg University of Applied Sciences (FHS)	A	Design
University of Forestry, Sofia	EN	Woodworking, Design, Economics and Management
Howest, University of Applied Sciences	B	Design
Mendel University in Brno	EN	Woodworking, Design
Czech University of Agriculture in Prague	EN	Woodworking
VŠB-Technical University Ostrava	EN	Chemistry, Security & Asset Protection, Materials Science
University of Pardubice	EN	Economics and Management
Tomas Bata University in Zlín	EN	Design, Economics and Management
University of Technology and Economics in České Budějovice	EN	Economics and Management
University of Defence Brno	EN	Security services
Technische Universität Dresden	D	Woodworking
Hochschule Ostwestfalen-Lippe	D	Woodworking
Hochschule Wismar	D	Design, Economics and Management
Escuela De Arte Y Superior De Diseño Orihuela	ES	Design
University of Zagreb	HR	Material Sciences
College of Slavonski Brod	HR	Sport
University College near Karlovac	HR	Security of persons and property
National University of Public Service Budapest	HU	Security of persons and property
University of West Hungary	HU	Wood Technology, Materials Science
Academy of Fine Arts in Katowice	EN	Art and Design
Gdansk University of Technology	EN	Engineering
Główna Szkoła Główna Służby Pożarniczej Warszawa	EN	Security of persons and property
Warsaw University of Life Sciences	EN	Economics and Management
University of Zielona Góra	EN	Education
Instituto Politecnico do Porto	P	Economics and Management
Transilvania University of Brasov	RO	Woodworking
Karelia University of Applied Sciences	SF	Design
Lahti University of Applied Sciences	SF	Woodworking

University of Ljubljana	SI	Material Sciences
Suleyman Demirel University	TR	Wood chemistry
Cardiff Metropolitan University	UK	Art and Design
University of applied Sciences Burgenland	AT	Economics and Management

In the framework of the ERASMUS+ Call for Proposals Key Activity KA107 - Mobility of students and staff between programme countries and partner countries (ERASMUS+ Credit Mobility), the implementation of the planned mobilities took place in 2019. Based on the signed bilateral agreements with partner institutions outside the EU, the planned activities were successfully implemented.

Foreign university	State
Saint Petersburg State Forest Technical University	Russian Federation
Northeastern Federal University	Russian Federation
Higher Education Technical School of Professional Studies, Novi Sad	Serbia

In 2019, **94** persons from abroad were admitted to the Faculty of Wood Sciences and Technology at TUZVO within the framework of foreign relations, mainly in connection with the organization of international scientific and artistic events. **168** employees of the Faculty of Wood Sciences and Technology participated mainly in short-term stays abroad and international conferences. An overview of the staff recruited and seconded and the events by focus is given in the tabular annex in Tables IV-3 to IV-5.

In cooperation with the External Relations Department of the Rector's Office of the TU, regular information seminars were held for students and employees of the TU on the possibilities of using mobility within the **ERASMUS+** and **SAIA** programmes. Study abroad opportunities within the EU and to non-EU countries and current calls of mobility agencies, focused on study, internship, teaching and stays for students, researchers and lecturers are published on the internal TV circuit and bulletin board of the DDF, on the website of the Faculty of Wood Sciences and Technology, and students and employees are also massively informed by emails and through the university information system. Increased efforts to inform students and staff about the opportunities for ERASMUS mobility and work placements are reflected in the ever-increasing interest of both students and staff in such stays.

In 2019, **9** teachers completed teacher mobility and **13 staff members** completed training. At the same time, **7** foreign teachers from Austria, the Czech Republic, Poland and Croatia were admitted to the Faculty of Education through Erasmus+.

During the academic year 2018/2019 and 2019/2020, **15 students** from the Faculty of Wood Sciences and Technology studied in the Faculty of Science within the ERASMUS+ student mobility programme and in the academic year 2018/2019, one student from Latvia and three students from Poland studied in the Faculty of Science. There are currently two students from Germany in the LS 2019/2020. In the same period, 2 ERASMUS+ student placements (DE, ESP) were implemented. An overview of ERASMUS+ mobilities is given in the tabular annex in Tables IV-6 to IV-12.

In the framework of Erasmus KA 107, one student from the Russian Federation was admitted to the Faculty of Wood Sciences and Technology in 2019. In the academic year 2019/2020 there are **8 students from Ukraine** studying at the Faculty of Wood Sciences and Technology, who study in Slovak language.

In the context of student mobility, a long-standing problem is the low interest of foreign students to study at the Faculty of Wood Sciences and Technology, whether through the Erasmus+ programme or other forms of scholarships. It is important to focus on the promotion

of opportunities to study at the Faculty of Wood Sciences and Technology at partner universities. A tool is to use seconded students to provide targeted information on study opportunities and the presentation of the DF. The DF has made efforts to ensure that students going on mobility promote the DF. They were provided with promotional materials and information brochures in AJ in print and digital formats and were asked to inform, promote and provide information about the possibility of studying at DF. It is also important to continuously identify new potential partners and educational institutions that focus on related fields of study and programmes to those currently accredited at the DF.

As part of the internationalisation efforts, several activities were carried out, such as the **International Day at the FH Salzburg in the 2019/2020 academic year** or the presentation of study opportunities at the DF at the **LAB University of Applied Sciences in Lahti, Finland**. New presentation materials in English were created for promotion purposes.

The vision for the next years is also to increase the number of incoming teachers and staff within the Erasmus+ programme and the Slovak Academic Information Agency with the aim of internationalising education and information exchange. The tool is to develop such activities within the staff mobility programmes that would lead to the interest of foreign partners in completing a teaching mobility or internship at the Faculty of Wood Sciences and Technology of TU Zvolen. The Faculty of Wood Sciences and Technology is actively interested in expanding academic cooperation with non-EU countries. We are actively involved in negotiations on these possibilities, which are initiated by the External Relations Office of TU.

Weaknesses in efforts to increase international and our students' interest in international mobility:

- Lower attractiveness of the environment of the "small" town of Zvolen, which may have an impact on the decision of foreign students, for example, even just between Banská Bystrica and Zvolen.
- The specificity of the focus of the study programmes offered, which naturally influences the numbers of potential international students.
- There is still a relatively low interest of our students in joining mobility programmes, which may be related to their low level or self-confidence in language competences, or even to their lower ambitions.

DF's strengths in supporting and promoting international mobility:

- A strong presence of teacher mobility and internships can greatly help in promoting and supporting subsequent student mobility.
- The specific focus of the study programmes offered has its advantages in the case of targeting equally specific foreign universities.
- Presentation of TUZVO as a good central starting point within Slovakia for opportunities to explore the landscape, nature and history.
- Accredited study programme in English Production and utilisation of Wood products, the promotion of which can attract foreign students. Preparation of other study programmes as well as study materials in English for the needs of foreign students.

IV. 3. CONTRACTUAL COOPERATION AND MEMBERSHIP OF ORGANISATIONS

In terms of the long-term plan, the aim of international multilateral and bilateral agreements was to participate in academic activities in the international space and to develop membership and active participation in academic and professional international organisations. Part of building external relations includes orientation towards domestic institutions and networking aimed at developing cooperation to support teaching activities, participation in

research tasks and visibility of results. **An updated list of the contracts in force as of 2019, for which the DF staff is responsible, is provided in Tabular Annex IV 12.**

IV. 3.1. AREAS OF CONTRACTUAL COOPERATION AND ASSESSMENT OF EXTERNAL RELATIONS

Foreign cooperation of the Faculty of Wood Sciences and Technology is realized on the basis of cooperation agreements with institutions abroad, mobility of employees, participation in professional and scientific events, participation of employees in international projects and on the basis of relations and contacts at the level of departments and employees of the Faculty of Wood Sciences and Technology.

The Faculty of Wood Engineering cooperates at the level of departments and staff with institutions in 24 countries.

IV. 3.2.DETACHED OFFICE IN VOLYN

In the academic year 2018/2019, **18** students studied at the detached workplace of the Faculty of Wood Sciences and Technology of the Technical University in Volyn, Czech Republic, in the four-year bachelor's degree programme **"Construction of wooden buildings and furniture"** and **34** students in the degree programmes **"Wooden buildings"** and **10 students** in the degree programme **"Creation and construction of furniture"**.

In the 2019/2020 school year, **48** students are studying in the accredited four-year study programme **"Wooden Buildings"**, **11** students are studying in the accredited four-year study programme **"Creation and Construction of Furniture"** and **4 students are studying** in the completing study programme **"Construction of Wooden Buildings and Furniture"**.

IV. 3.3 MEMBERSHIP OF INTERNATIONAL ORGANISATIONS, GOVERNING BODIES OF INTERNATIONAL SCIENTIFIC PROGRAMMES AND PROJECTS, BOARDS AND COMMISSIONS

The Faculty of Wood Sciences and Technology is represented by its employees in the following international organisations, councils, committees and commissions based abroad:

ORGANIZATION	Member	Member of the Bureau	founding member	Chairman	Observer	reviewer of papers	Member of the Programme Committee
EAA - European Acoustical Association	2	-	-	-	-	-	-
EPS - European Physical Society	1	-	-	-	-	-	-
TC RBA - Technical Committee on Room and Building Acoustics	1	-	-	-	-	-	-
SPBI - Association of Fire Safety Engineering	4	-	-	-	-	-	-
Society of Paper and Pulp Industry	3	-	-	-	-	-	-
American Chemical Society	1	-	-	-	-	-	-
Scientific Council of FLD ČZU Prague	1	-	-	-	-	-	-
IRG - The International Research Group on Wood Preservation	1	-	-	-	-	-	-

WoodEMA, i.a. - International Association for Economics and Management in Wood Processing and Furniture Manufacturing	12	2	-	-	-	-	-
Management Committee COST Action CA16229	5	-	-	-	-	-	-
WoodEMA Conference Digitalisation and circular economy: forestry and forestry based industry implications. Varna, Bulgaria	2	-	-	-	-	2	-
PEFC Chain of Custody Working Group, PEFC International, Geneva, Switzerland -	0	-	-	-	1	-	-
IAWS - International Academy of Wood Science	2	-	-	-	-	-	-
Trade Union Commission Faculty of Forestry and Wood Technology, Mendel University in Brno	5	1	-	-	-	-	-
SWST - Society of Wood Sciences and Technology	1	-	-	-	-	-	-
Chairman of the State Examination Committee for Final Examination - FLD ČZU Prague	0	-	-	1	-	-	-
CSMS - Czechoslovak Microscopical Society	1	-	-	-	-	-	-
EMS - The European Microscopy Society	1	-	-	-	-	-	-
Scientific Council of LDF, MU in Brno	2	-	-	-	-	-	-
ALCA - The American Leather Chemists Association, Lubbock, Texas, USA	1	-	-	-	-	-	-
International Academic Network Human Potential Development in Central and Eastern EU States	1	-	-	-	-	-	-
QUARE 2018 Interdisciplinary Scientific Conference for PhD students and assistants Scientific Conference - program committee member	0	-	-	-	-	-	1
32 nd IBIMA Conference, Seville, Spain - member of the program committee	0	-	-	-	-	-	1
Economic Commission of ČZV Prague	1	-	-	-	-	-	-
ORGANIZATION	Member	Member of the Bureau	founding member	Chairman	Observer	reviewer of papers	Member of the Programme Committee
Doctoral Board of Doctoral Studies "Business Management and Economics", FLD ČZU Prague	1	-	-	-	-	-	-
Social Science & Business Research Network	1	-	-	-	-	-	-
6th International Conference "New Trends in Management and Production Engineering: Regional, Cross-border and Global perspectives	1	-	-	-	-	-	-
I INCE - International Institute of Noise Control Engineering USA	1	-	-	-	-	-	-
ICA - International Commission for Acoustics	1	-	-	-	-	-	-
Member of the EAA Technical Commission for Room and Building Acoustics	1	-	-	-	-	-	-
IBPSA - International Building Performance Simulation Association	1	-	-	-	-	-	-
Engineers Ireland	1	-	-	-	-	-	-
EBA - European Biomimicry Alliance	1	-	-	-	-	-	-
Bioversum - Nature Inspired Systems	0	-	1	-	-	-	-
International Commission "National Student Design Awards 2019"	1	-	-	-	-	-	-
Beijing Forestry University (BFU), Beijing, China - R.E.D., Design for Elderly Association	1	-	-	-	-	-	-

International Commission "National Student Design Awards 2019"	1	-	-	-	-	-	-
Jury of the Grand Prix Mobitex - professional and student section, Brno, Czech Republic	1	-	-	-	-	-	-
Evaluation jury at Mobitex 2019, Trade Fairs a. s. Brno, Czech Republic	1	-	-	-	-	-	-
TOTAL	63	3	1	1	1	2	2

IV. 3.4 MEMBERSHIP OF MAJOR DOMESTIC ORGANISATIONS

ORGANIZATION	Member	Administrator	Vice-President	Chairman	expert	Secretary	representative of TUZVO	National Secretary
Art Support Fund of the Ministry of Culture of the Slovak Republic, Commission for Library Support 5.1.1 and 5.1.2	1	-	-	-	-	-	-	-
International jury at the Furniture and Living 2019, Agrokomplex Nitra	1	-	-	-	-	-	-	-
Doctoral Studies Board "Design", FA STU Bratislava	1	-	-	-	-	-	-	-
Advisory body of the Ministry of Culture of the Slovak Republic for Support of Artistic Creation at Universities	-	-	-	-	1	-	-	-
Commission of the Ministry of Education and Science of the Slovak Republic for the preparation and description of fields of study /art	-	-	-	-	1	-	-	-
International Commission of the Student Competition in Furniture and Interior Design Professor Jindřich Halabalu Award 2019	1	-	-	-	-	-	-	-
Slovak Acoustical Society (SKAS)	1	-	-	-	-	1	-	-
Association of Slovak Scientific and Technical Societies	5	-	-	-	-	-	-	-
Slovak Organological Centre	-	-	1	-	-	-	-	-
SÚTN Technical Commission	2	-	-	-	-	-	-	-
Commission for the award of the Quality Mark for timber buildings	1	-	-	-	-	-	-	-
Slovak National Accreditation Service (SNAS) - assessor and expert for construction timber and wood products	1	-	-	-	-	-	-	-
Slovak Chamber of Civil Engineers	1	-	-	-	-	-	-	-
Commission for the award of the Quality Mark for timber buildings	4	1	-	-	-	-	-	-
Working Group of the Accreditation Commission for Research Area 17: "Engineering and Technology"	1	-	-	-	-	-	-	-
Woodworking Congress of TU in Zvolen	2	-	-	-	-	-	-	-
Sectoral Council for Forestry and Wood Processing	1	-	-	-	-	-	-	-

Slovak Society for Quality	1	-	-	-	-	-	-	-
Council of Universities	-	-	-	-	-	-	1	-
Slovak Physical Society	4	-	-	-	-	-	-	-
Union of Slovak Mathematicians and Physicists	5	-	-	-	-	-	-	-
Association of the Pulp and Paper Industry of the Slovak Republic	1	-	-	-	-	-	-	-
Sectoral Council for the Pulp and Paper and Printing Industries	1	-	-	-	-	-	-	-
Slovak University Sports Association - chairman of the chess sports committee	-	-	-	1	-	-	-	-
Executive Board of the Slovak Accreditation Agency for Higher Education (SAA)	1	-	-	-	-	-	-	-
Slovak Mathematical Society	1	-	-	-	-	-	-	-
Slovak Society for Geometry and Graphics	1	-	-	-	-	-	-	-
ORGANIZATION	Member	Administrator	Vice-President	Chairman	expert	Secretary	representative of TUZVO	National Secretary
Council for Education and Training at the Council of Education of the Slovak Republic	1	-	-	-	-	-	-	-
Slovak National Accreditation Service	-	-	-	-	2	-	-	-
PEFC Slovakia	-	-	-	-	-	-	-	1
CITES Advisory Committee of the Ministry of the Environment, Nature Conservation and Landscaping Section	1	-	-	-	-	-	-	-
SÚTN Technical Commission 16	3	-	-	-	-	-	-	-
SÚTN Technical Commission 28	1	-	-	-	-	-	-	-
SK BIOM, Slovak Biomass Association	1	-	-	-	-	1	-	-
Slovak Physical Society	-	-	1	-	-	-	-	-
Slovak Acoustical Society	-	-	-	1	-	-	-	-
SÚTN Technical Commission 21, Acoustics and Mechanical Vibrations	1	-	-	-	-	-	-	-
Presidium of the Voluntary Fire Protection of the Slovak Republic	1	-	-	-	-	-	-	-
Regional organisation of the Voluntary Fire Protection of the Slovak Republic	-	-	-	-	-	-	-	-
Commission of the Ministry of the Interior of the Slovak Republic and the DFPO of the Slovak Republic for the Recodification of Legislation	1	-	-	-	-	-	-	-
Republic Training Staff of DPO SR	-	-	-	1	-	-	-	-
Slovak Chamber of Forestry	1	-	-	-	-	-	-	-
Slovak Association for Geoinformatics	1	-	-	-	-	-	-	-
APPO - Association of Passive Fire Protection of the Slovak Republic	1	-	-	-	-	-	-	-
Slovak Association for Occupational Safety and Health and Fire Protection	1	-	-	-	-	-	-	-
Republican Control and Revision Commission of the DPO SR	1	-	-	-	-	-	-	-
Slovak University Sports Association	1	-	-	-	-	-	-	-
Fire Engineering Association	1	-	-	-	-	-	-	-
Working group for the preparation of special training of fire cause investigators in the HaZZ	1	-	-	-	-	-	-	-
DPO SR - Voluntary Fire Protection of the Slovak Republic	11	-	-	-	-	-	-	-

TOTAL	72	1	2	3	4	2	1	1
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IV. 3.5 MEMBERSHIP OF INTERNATIONAL AND DOMESTIC EDITORIAL BOARDS

JOURNAL	Member	gestor	Deputy Editor-in-Chief	Chairman	Vice-President	Reviewer	scientific editor	editor
Editorial Board of ACTA UNIVERSITATIS MATTHIAE BELII, ser.: Technical Education	1	-	-	-	-	-	-	-
Council of the Faculty of Science at the Faculty of Science of the University of Science and Technology, Section of Marketing, Business and Innovation Management	-	1	-	-	-	-	-	-
Editorial Board Folia Forestali Polonica Series B - Forestry	1	-	-	-	-	-	-	-
Editorial Board of Acta Facultatis Xylogologiae Zvolen	8	-	-	1	-	-	1	-
Editorial Board of Wood Research	3	-	-	-	-	-	-	-
Editorial Board of Science Nature Technologies	1	-	-	-	-	-	-	-
Scientific Journal of Regional Culture in Slovakia	1	-	-	-	-	-	-	-
Editorial Board of Holztechnologie	1	-	-	-	-	-	-	-
Board of Consultants of the Woodworking Magazine	1	-	-	-	-	-	-	-
Scientific Board of the LOGI Journal	1	-	-	-	-	-	-	-
Scientific Council of the Grant journal	1	-	-	-	-	-	-	-
Editorial and Scientific Board of the journal Human Resources Management and Ergonomics	1	-	-	-	-	-	-	-
Editorial Board of the Journal of Business Management	-	-	1	-	1	-	-	-
MINIB Scientific Council Marketing of Scientific and Research Organizations	1	-	-	-	-	-	-	-
Editorial Board of Forests	1	-	-	-	-	-	-	-
Editorial Board of Cellulose Chemistry and Technology	1	-	-	-	-	-	-	-
Editorial Board of DELTA TU Zvolen	1	-	-	1	-	-	-	2
Scientific Council of the International Scientific Journal Intercathedra, Poznan	2	-	-	-	-	-	-	-
Editorial Board of the international scientific journal Drvna industrija, Zagreb	1	-	-	-	-	-	-	-
Editorial Board of Studia Universitatis "Vasile Goldiş" Arad. Economic Sciences	2	-	-	-	-	-	-	-
Editorial Board (reviewer) of the scientific journal Przegląd leśniczy	1	-	-	-	-	1	-	-
Editorial Board of Forestry, Forest, Paper and Woodworking Industry	1	-	-	-	-	-	-	-
Editorial Board of Lesotechnicheskij žurnal (WoS)	1	-	-	-	-	-	-	-
Derevo obrobatajuščaja sophistication	1	-	-	-	-	-	-	-
Editorial Board of the journal Akustika	1	-	-	-	-	-	-	-
Editorial Board of the magazine HASIČI - Newsletter of the Fire and Rescue Corps	1	-	-	-	-	-	-	-
Editorial Board of the Open Science Journal	1	-	-	-	-	-	-	-
TOTAL	36	1	1	2	1	1	1	2

IV. 3.6 IMPLEMENTATION OF INTERNATIONAL PROGRAMMES

The following activities were implemented at the Faculty of Wood Sciences and Technology in 2019 within the Erasmus+ KA107:

Participant's name	Surname of the participant	Sending Faculty	Receiving institution	Start date	Date of completion
1 Danica	Kachikova	DF HERE	High Technical School of Structural Studies in Novi Sad	23.6.2019	28.6.2019
2 Eva	Mračková	DF HERE	High Technical School of Structural Studies in Novi Sad	23.6.2019	28.6.2019

Within the framework of the project with Visoka Tehnicka Skola Strukovnih Studija u Novom Sadu, two foreign guests were received. North-Eastern Federal University Yakutsk and Saint Petersburg State Forest Technical University received from both one foreign guest.

Responsible task solver: doc. Ing. Ján Parobek, PhD.
North-Eastern Federal University - Russian Federation - Yakutia

Responsible task solver: Ing. Vladislav Kaputa, PhD.
Saint Petersburg State Forest Technical University - Russian Federation
Anastasiia Shcheglova ZS 2019/2020 was accepted for study in 2019 and
Timur Kulyntayev LS 2019/2020

Preparation of the ERASMUS+ Key Activity KA107 - Call 2020 - Mobility of students and staff in HEIs between programme countries and partner countries. The project for mobility with universities in the countries of the United States of America and China was submitted in February 2020. The results of the successful project will be known in May 2020.

Approved Erasmus project KA202 - Strategic Partnerships in Vocational Education and Training:

Erasmus+ project title: 'Use of CNC technology in wood processing for the purpose of mutual exchange of procedures and examples of good practice'.

The aim of the Erasmus+ project: improving the teaching of CNC woodworking and deva-based materials.

The project is implemented under the Erasmus+ grant agreement "2019-1-CZ01-KA202-061229"

and the subsequent agreement on partnership and mutual cooperation in the implementation of the project between the partners Higher Vocational School and Secondary School of Industry in Volhynia, Technical University of Zvolen and Woodworking School Maribor.

In order to strengthen cooperation with professionally close workplaces of V4 universities and EU and international organisations, participation in the COST segment is an important indicator.

Task number:
CA15216 (COST)
Name of the task:

European Network of Bioadhesion Expertise: Fundamental Knowledge to Inspire Advanced Bonding Technologies

Responsible researcher for SR: prof. Ing. Prof. Ján Sedliačik, PhD.

Task number:

COST ACTION PROJECT FP1405

Name of the task:

**Active and intelligent fibre-based packing - Innovation and market introduction
(Active and intelligent packaging systems - Innovation and marketing launch)**

Responsible problem solver:

doc. Ing. Ján Parobek, PhD.

Task number:

COST ACTION PROJECT - CA16229

Name of the task:

**European Network for Environmental Citizenship (ENEC)
(European Network for Environmental Citizenship)**

Responsible problem solver:

Ing. Vladislav Kaputa, PhD.

Ing. Hana Máťová, PhD.

Representatives of the Principal Investigators:

Dr. h. c. prof. Ing. Mikuláš Šupín, CSc.

doc. Ing. Hubert Paluš, PhD.

Task number:

COST Action CA18135

Name of the task:

Fire in the Earth System: Science & Society

Principal investigator: doc. Ing. Andrea Majlingová, PhD.

**IV. 3.7 IMPLEMENTATION OF DOMESTIC EVENTS AND PROJECTS WITH A
CONTRIBUTION TO THE EXTERNAL RELATIONS OF THE FACULTY**

KDNI

Invited high schools with a focus on design education to the Creativity in Design IV conference. / one dimension more (from dream to reality, from idea to matter, from vision to realization, from surface to space) - 06.11.2019 Ľudovít Štúr Theatre, Congress Centre of TU Zvolen. 60 students from the Private Art School in Zvolen and the Secondary School of Woodworking in Zvolen participated.

Presentations of study programmes at the Secondary Art School in Ostrava.

National and international KDNI exhibitions for 2019

Made in paper - Participation at the Salone del Mobile Milano in Milan, 8 - 13 April 2019

Furniture and Living Exhibition, Nitra 2019, 4 March 2019 - 8 March 2019

Exhibition in the Zagorje Gallery JM Senica, 4 April 2019 - 13 May 2019

Exhibition Made in Papier Lodz Design week - PL May 2019

Design Week 2019 exhibition at UTB Zlín, opening May 4, 2019 - May 27, 2019

Design Week 2019 exhibition, OD Dunaj Bratislava, 6 June to 10 June 2019

Exhibition Foodprint - Faro Portugal in the framework of the Algarve Design Meeting May 2019

Made in Papier - premiere November 2019 at FA STUBA

Meat design exhibition, Ostrava, 21. -24.11. 2019

Exhibition Award of prof. Jindřich Halabalu 2019, Zvolen Castle, November 4, 2019 - December 9, 2019

KDT

Collaboration on the project:

REINPRECHT, L., REPÁK, M. KAPUSTOVÁ, J.: Test of efficacy of 4-potential fungicides against wood-destroying fungi according to ČSN EN 113. Expert opinion for ČZU in Prague, UVTS Project TU Zvolen, 23.10.2019, 6 p.

Ing. Ján Izdinský, PhD.: Presentation of the possibility of study and research at the Faculty of Wood Sciences and Technology of the Technical University of Zvolen within the ERASMUS plus program at the T.E.I. OF THESSALY, Department of Wood Furniture Technology (Karditsa) in Greece 03.06. 2019 - 07.06.2019.

KDS

Member of the Department of Wooden Structures Ing. Roman Soyka, PhD. presented the departmental research in the field of load-bearing structures at the Slovak Chamber of Civil Engineers in Banská Bystrica.

KPO

Children's Firefighting University 2019

Florian Days 2019

Iron Fireman 2019

KDS, KNDV, KDT

Members of the departments presented at the Secondary Vocational School of Woodworking in Spišská Nová Ves the possibilities of study and research at the Faculty of Wood Sciences and Technology

Members of the departments presented the subjects from the study programmes of the Faculty of Wood Sciences and Technology for the pupils of the Secondary Vocational School of Wood Technology in Zvolen at the Faculty of Wood Sciences and Technology in Zvolen.

KNDV

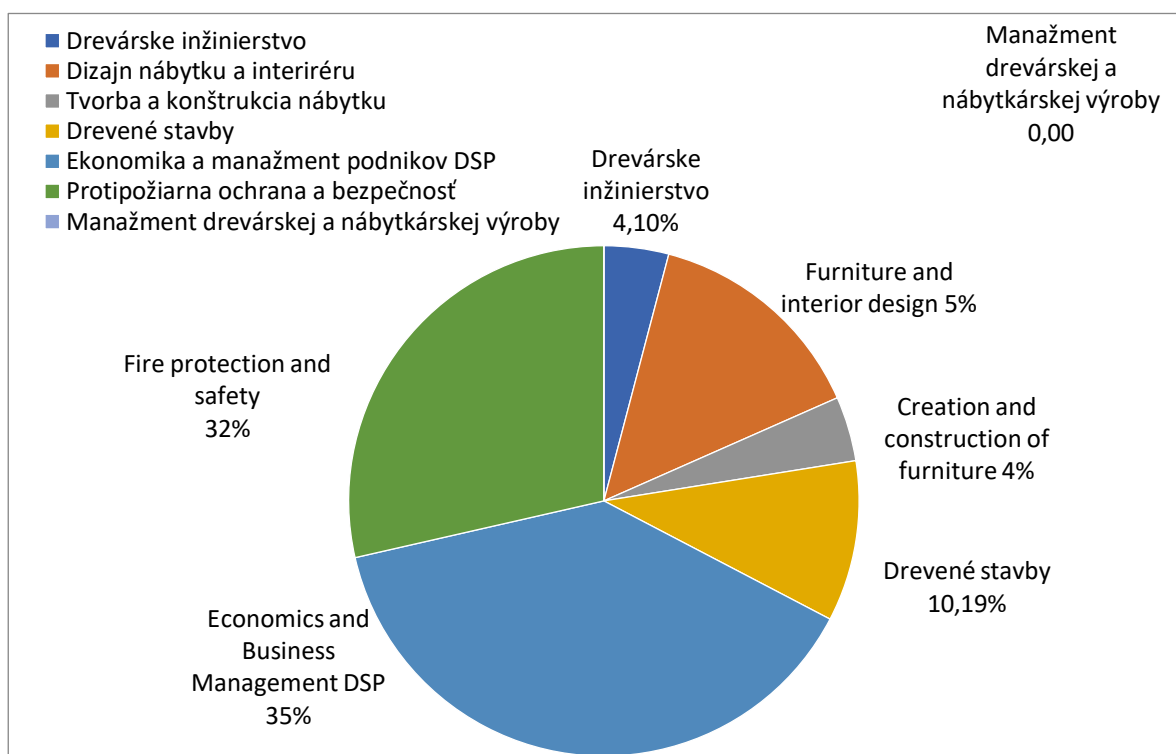
Lectures and promotion of the School: the Secondary Vocational School of Woodworking, Topoľčany

IV. 4. SURVEY ON THE EMPLOYABILITY OF DF GRADUATES

The management of the Faculty of Wood Sciences and Technology carries out its own research on the employability of graduates of the Faculty of Wood Sciences and Technology in order to find out how successfully and in what areas of social life they will be employed in practice after graduation. The survey is carried out through an anonymous online questionnaire which contains basic information about the graduate's studies, the country of current employment, the industry in which he/she is working and the specific activity he/she performs within the DSP or related industries.

Fig. IV-1 Structure of respondents according to the completed studies

The survey was addressed to **132** full-time and part-time graduates who completed one of the engineering or master's degree programmes in the 2018/2019 academic year at the Faculty of



Wood Sciences and Technology. The survey was conducted approximately half a year after graduation and in order to obtain the highest possible return rate, questionnaires were sent in two rounds (January 2019 and **February 2020**). In total, only **49 respondents** out of 132 respondents responded which represents a **return rate of only 38% this year**. Unfortunately, this is also a possible reason for the distortion of the real data and reduced relevance of the survey results. Of the responding respondents, **90% were** former full-time students and **10%** were external students. The structure of the respondents involved according to the degree completed is shown in Figure IV-1. Of the 49 respondents, 6% of the respondents had worked abroad. Up to 94% of the respondents are currently employed. 4% are on maternity/parental leave, 2% are unemployed.

An overview of employment by field of study is given in Table. IV

Tab. IV-1 Employment overview by completed study programme

Completed study programme	Employee/ Entrepreneur	
	N	%
Wood Engineering	2	100 %
Creation and construction of furniture	2	100 %
Wooden buildings	5	100 %
Economics and Business Management DSP	19	95%
Fire protection and safety	14	100%
Furniture and interior design	7	100%
Management of woodworking and furniture production	0	-

An overview of the sectors in which working graduates have found employment is given in Tab. IV- 2. The table also provides information on the number of graduates working in the VET sector or related industries.

Tab. IV-2 Employment of graduates by sector

Industry	DI		TKN		DS		EMP DSP		POB		DAYS		MDNV	
	n	%	n	%	n	%	n	%	n	%	n	%	n	%
Construction	1				5									
Industry									2					
Emergency services, security services, health services									8					
Financial and insurance activities	1						1							
Professional, scientific, technical activities									1					
Administrative services							6							
Art, design			1								7			
Public administration, compulsory social security							1		3					
Transport and storage							1							
Wholesale and retail trade, repair of motor vehicles			1				1							
Economics and Management							7							
Accommodation and catering services							2							
I work in DSP or related industries	0	0	2	100	3	60	1	5	0	0	4	57	-	-

Most graduates of the Furniture Design and Construction 100%, Wood Construction 60% and Furniture and Interior Design 57% work in DSP or related industries. Specific activities include the following: joinery, furniture manufacturing, primary wood processing, wood products trade, furniture dealer, prefabricated house manager, wood construction designer.

IV. 5. DEVELOPMENT OF PUBLIC RELATIONS AND RELATED ACTIVITIES

The aim in the area of public relations development is to raise awareness of the DF and its promotion among the lay and professional public.

During the previous period, the following activities were carried out to promote the external relations of the DF:

- Cooperation with the Secondary School of Woodworking in Zvolen;
- Visits to secondary schools with expert lectures and presentations on study opportunities: Secondary Vocational School of Woodworking in Spišská Nová Ves,

- Secondary Vocational School of Woodworking, Topoľčany;
- Implementation of a **survey on the employability of DF graduates** through a questionnaire survey of 2nd degree graduates;
 - Organization of the **DF Open Day 2019** with the support and co-organization of all DF departments;
 - Professional lectures for students of the **Secondary School of Woodworking in Zvolen**;
 - Promotion of fields of study on social networks (new slides for DF study programmes), paid advertising;
 - Promotion of the DF and news on the DF through **Facebook** and the university website;
 - The faculty published an updated information brochure "**Study opportunities at the Faculty of Wood Sciences and Technology**", with a "postcard leaflet" with the new slogan "**We love wood**" in the Slovak version and "**we love wood**" in the English version with updated new fields of study and study programmes. The materials have been used at exhibitions in Slovakia, Czech Republic, Ukraine, Austria, Finland and education fairs, DOD, DF NOC, as part of DF souvenirs and presentation gifts, etc;
 - Educational exhibitions - Nitra, Bratislava, Banská Bystrica, Žilina, Prešov, Košice;
 - Reprint and update of "**9 reasons to study at DF**";
 - The students, as **student ambassadors**, presented DF study opportunities to high schools;
 - Symposium "**Week of Theory and Practice**" at the **Faculty of Wood Sciences and Technology**, supported by the Woodworking Congress (doc. Sujová) ;
 - a set of lectures of individual professional departments within the conference organized by SOPK (Slovak Chamber of Commerce and Industry) on 15.1.2019 within the InnoService project "Cross-border portfolio of innovation services" (within the call Interreg V-A SK-HU);
 - Publication of a printed catalogue of R&D service and infrastructure providers;
 - Creation of a website with contacts to companies and institutions in five counties in Slovakia and Hungary providing R&D services and infrastructure (<https://inno-service.eu/sk/>);
 - Handing over the proceeds from the raffle for the Centre for Children and Families in Detva;
 - Promotion of timber companies in the premises of DF;
 - Exhibition **Techfórum Nitra 2019**;
 - **European Researchers' Night**, 27 September 2019, Europa Shopping Center, Banská Bystrica;
 - **Maker Fair 2019**;
 - **Comprehensive preparation of the new communication strategy of TUZVO - SK-PR agency**;
 - Promotional event for the second year of the "**Faculty of Wood Sciences and Technology NIGHT**" - promotion on social networks (paid), sending invitations to partners, schools, the City of Zvolen, promotion through the City of Zvolen (calendar of events, city website, posters in the city), leaflets in the Europa Shopping centre.

FACULTY OF WOOD SCIENCES AND TECHNOLOGY NIGHT 2019

The NOC DF event took place on 13 November 2019 from 17:00 to 21:00 in the premises of the Technical University in Zvolen. During the DF Night we welcomed more than 250 participants. All age categories were represented.

All DF departments were intensively involved in the preparation of the event.

The event was held under the auspices of **Dr. h. c. prof. Ing. Rudolf Kropil, PhD.** , Rector of the Technical University of Zvolen and **Ing. Igor Patráš**, President of the Association of Wood Processors of the Slovak Republic.

Events co-/organized by the DF Woodenworld student organization:

- The fourth edition of the **Octoberfest 2019** event and the associated meeting of TUZVO students, welcoming of new students and opening of the school year.
- Co-organizer of the event "**Running through the night Zvolen**"
- Help with the organisation of the **NOC DF** event

IV. 6. TABULAR ANNEX

Tab. IV-3 Overview of recruited and seconded staff by mobility focus in 2019

Type of journey	Adoption	Posting
Direct cooperation	5	3
Conferences, symposia, congresses	58	28
Study stays	5	15
Lecture stays	5	15
Competitions, exhibitions, excursions	1	16
Consultations on international projects	6	26
Other (consultations, CoR, training, education, refereeing)	9	37
Detached office in Volyn	5	28
TOTAL for 2019	94	168
TOTAL for 2018	154	202
TOTAL for 2017	157	197

Tab. IV-4 Cumulative number of DF admissions for 2019

State	Cooperation stays	Conferences, symposia, congresses	Total
Belgium	0	2	2
Czech Republic	15	22	37
China	2	1	3
Finland	5	1	6
France	0	1	1
Netherlands	0	1	1
Croatia	0	2	2
Israel	1	0	1
South Africa	1	0	1
Latvia	1	0	1
Hungary	0	4	4
Mongolia	0	7	7
Germany	0	7	7

Poland	5	5	10
Portugal	1	1	2
Russia	2	0	2
Slovenia	1	0	1
Serbia	2	0	2
Italy	0	1	1
Ukraine	0	1	1
Lithuania	0	1	1
Kazakhstan	0	1	1
TOTAL for 2019	36	58	94
TOTAL for 2018	35	119	154
TOTAL for 2017	75	82	157

Tab. IV-5 Cumulative number of seconded DF staff in 2019

State	Cooperation stays	Conferences, symposia, congresses	Total
Belgium	2	0	2
Bulgaria	0	6	6
Czech Republic	99	10	109
Finland	2	0	2
Greece	1	0	1
Hungary	5	0	4
Germany	2	0	2
Norway	2	0	2
Poland	13	3	16
Portugal	2	0	2
Austria	3	3	6
Singapore	0	2	2
Slovenia	1	0	1
Spain	2	1	3
Switzerland	1	0	1
Italy	4	0	4
Turkey	0	1	1
United Kingdom	1	0	1
USA	0	2	2
TOTAL for 2019	140	28	168
TOTAL for 2018	140	62	202
TOTAL for 2017	75	82	157