

FACULTY OF WOOD SCIENCES AND TECHNOLOGY

Technical University in Zvolen



**ANNUAL REPORT
OF THE ACTIVITIES OF THE FACULTY OF WOOD
SCIENCES AND TECHNOLOGY
TECHNICAL UNIVERSITY IN ZVOLEN
2021**

Zvolen, 2022

The presented annual report on the activities of the Faculty of Wood Sciences and Technology of the Technical University in 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. The individual parts of the report were discussed by the College of the Dean 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 of the Technical University 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 in 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

I. 1. ACADEMIC FUNCTIONARIES OF THE FACULTY

Dean:

prof. Ing. Ján Sedliačik, PhD.

tel. +421-45-5206 340 - dean's office

tel. +421-45-5206 419 - Department

bl. B/V/B528

E-mail: sedliacik@tuzvo.sk

Vice Deans:

Ing. Rastislav Igaz, PhD.

Vice-Dean for Scientific Research

tel. +421-45-5206 471

bl. B/V/B512

E-mail: igaz@tuzvo.sk

doc. Ing. Zuzana Tončíková, ArtD.

Vice-Dean for Faculty Development and International Relations

tel. +421-45-5206 399

ND D-block, 301/B

E-mail: zuzana.toncikova@tuzvo.sk

Ing. Adrián Banski, PhD.

Vice-Dean for Educational Activities

tel. +421-45-5206 368

bl. B/IV/B411

E-mail: banski@tuzvo.sk

I. 2. ACADEMIC SENATE OF THE FACULTY OF WOOD SCIENCES AND TECHNOLOGY

Members of the Bureau:

prof. Ing. Ivan Klement, CSc.
Ing. Denisa Lizoňová, ArtD.
doc. Ing. Ján Parobek, PhD
doc. 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 Krišťák, PhD
doc. Ing. Miroslava Mamoňová, PhD.
Ing. Ľubica Slašťanová
Ing. Roman Soyka, PhD.
Monika Ratkovská
Michaela Šuhajdová
Lucia Trnkócyová
Bc. Simona Hanesová
Bc. Ivan Strmý
Ing. Rozália Vaňová (PhD student)

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

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

Members: Ing. Adrián Banský, PhD.
Ing. Rastislav Igaz, PhD.
doc. Ing. Zuzana Tončíková, ArtD.
doc. akad. soch. René Baďura
doc. Ing. Pavel Beňo, PhD.
doc. Ing. Josef Drábek, CSc.
prof. Ing. Ladislav Dzurenda, PhD.
prof. Ing. Miloš Hitka, PhD.
doc. Mgr. art. Marián Ihring, ArtD.
prof. RNDr. Danica Kačíková, PhD., MSc.
prof. Ing. Ivan Klement, CSc.
doc. PaedDr. Ľuboš Krišťák, PhD.
prof. Ing. Jozef Kúdela, CSc.
prof. Ing. Roman Réh, CSc.
prof. Ing. Mariana Sedliačiková, PhD.
prof. Ing. Jozef Štefko, CSc.
prof. Ing. Pavlo Bekhta, DrSc.
RNDr. Jiří Homolka
doc. Ing. Zdeněk Kopecký, CSc.
doc. M.A. Vladimír Kovařík
Ing. Igor Patráš
Ing. Ján Pivoluska, CSc.
prof. Ing. Maroš Soldán, PhD.

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

prof. Ing. Ján Sedliačik, PhD.

Ing. Rastislav Igaz, PhD.

doc. Ing. Zuzana Tončíková, ArtD.

Ing. Adrián Banský, 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.

prof. Ing. Ivan Klement, CSc.

doc. PaedDr. Ľuboš Krišt'ák, 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 2020/2021, the Faculty of Wood Sciences and Technology provided education in full-time and part-time form of study in the following fields and programmes:

Full-time form of study:

Degree of study	Field of Study	Study programme
I.	Wood Sciences and Technology	Wood processing
		Furniture design and construction
		Management of woodworking and furniture production
		Timber and Wood Structures
	Economics and Management	Economics and management of wood processing companies
	Safety and Security Sciences	Fire protection and safety
	Art	Design of Furniture and Interior
II.	Wood Sciences and Technology	Wood Engineering
		Furniture design and construction
		Management of woodworking and furniture production
		Timber and Wood Structures
	Economics and Management	Economics and management of wood processing companies
	Safety and Security Sciences	Fire protection and safety
	Art	Design of Furniture and Interior
III.	Wood Sciences and Technology	Wood processing technology
		Wood Structure and Properties
		Construction and Technology of Wooden products
	Safety and Security Sciences	Fire protection and safety
	Art	Furniture and Living design

External form of study:

Degree of study	Field of study	Study programme
I.	Wood Sciences and Technology	Construction of Timber and wood structures and furniture - Volyně
		Furniture production
		Creation and construction of furniture
		Design and construction of furniture - Volyně
		Timber and Wood Structures
		Timber and Wood Structures Volyně
	Economics and Management	Business management in DSP
		Economics and Business Management DSP
	Safety and Security Sciences	Fire protection and safety
II.	Wood Sciences and Technology	Wood Engineering
		Creation and construction of furniture
		Timber and Wood Structures
	Economics and Management	Business management in DSP
		Economics and Business Management DSP
	Safety and Security Sciences	Fire protection and safety
III.	Wood Sciences and Technology	Technology of Wood processing
	Wood Sciences and Technology	Wood Structure and Properties
	Wood Sciences and Technology	Construction and Technology of Wooden Products
	Safety and Security Sciences	Fire protection and safety
	Art	Furniture and living design

II. 2. NUMBERS OF STUDENTS IN STUDY PROGRAMMES of I, II. DEGREE

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

Table 1.1 Number of students enrolled in full-time studies in the academic year 2020/2021

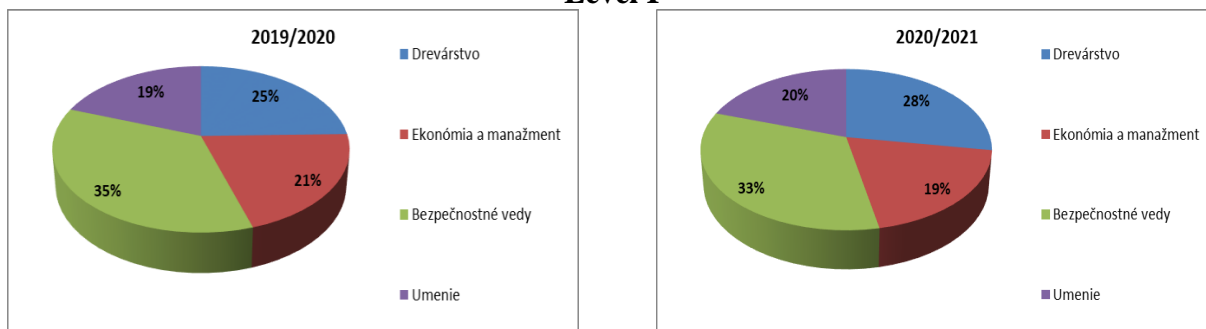
Study field/Programme	Year				Total
	1.	2.	3.	4.	
I. level of study					
Study field: Wood Sciences and Technology					
Woodprocessing/ * IT-enabled woodworking	*4	1	3	-	8
Creation and construction of furniture	27	14	2	-	43
Management of woodworking and furniture production/*Family-owned business in woodprocessing and furniture manufacturing	*0	1	2	-	3
Timber and wood structures	38	24	20	-	82
Total Study field of Wood Sciences and Technology	69	40	27	-	136(132)
Study field: economics and management					
Economics and Business Management DSP	36	37	22	-	95(110)
Study field: Safety and Security Sciences					
Fire protection and safety	84	36	44	-	164(190)
Study field: art					
Furniture and interior design	25	28	20	25	98(104)
Total I. level	214(233)	141(138)	113(137)	25(28)	493(536)
II. level of study					
Study field: Wood Sciences and Technology					
Wood Engineering	4	3	-	-	7
Creation and construction of furniture	8	7	-	-	15
Management of woodworking and furniture production	0	0	-	-	0
Timber and wood structures	13	19	-	-	32
Total Study field of Wood Sciences and Technology	25	29	-	-	54(66)
Study field: Economics and management					
Economics and Business Management DSP	33	34	-	-	67(78)
Study field: Safety and Security Sciences					
Fire protection and safety	48	32	-	-	80(70)
Study field: Art					
Furniture and interior design	6	8	-	-	14(26)
Total II. Grade	112(110)	103(130)	-	-	215(240)
Full-time study total	326(343)	244(268)	113(137)	25(28)	708(776)

Status as of 31.10.2020

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 by disciplines at the Faculty in the academic year 2019/2020, 2020/2021.

Level I



Level II

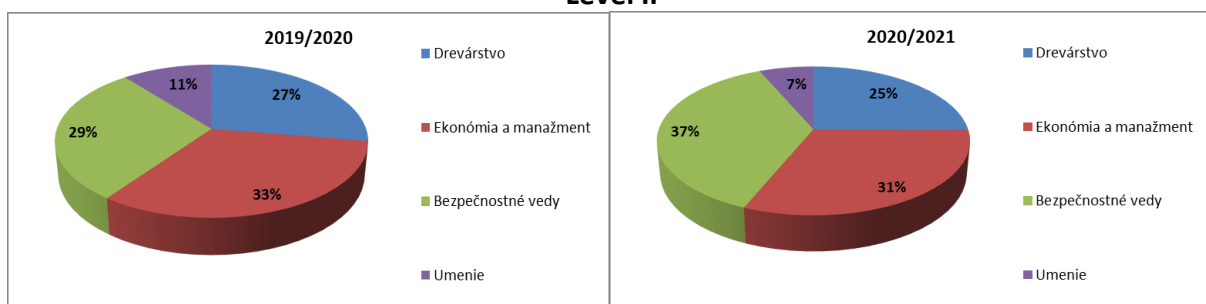


Table 1.2 Number of students enrolled in the external form of study in the academic year 2020/2021

Study field/Programme	Year				Total
	1.	2.	3.	4.	
I. level of study					
Study field: WOOD SCIENCES AND TECHNOLOGY					
Creation and construction of furniture	14	2	1	3	20
Design and construction of furniture - Volyně, Czech Republic	11	2	3	2	18
Timber and wood structures	14	4	8	6	32
Timber and wood structures - Volyně	20	6	14	7	47
Total Study field of Wood Sciences and Technology	59	14	26	18	117(114)
Study field: Safety and Security Sciences					
Fire protection and safety	22	6	5	13	46(47)
Study field: economics and management					
Economics and management of wood processing industry enterprises	10	2	5	11	28(36)
Total I. level	91(79)	22(42)	36(45)	42(31)	191(197)
II. level of study					
Study field: WOOD SCIENCES AND TECHNOLOGY					
Wood Engineering	0	0	0	-	0
Creation and construction of furniture	0	0	0	-	0
Timber and wood structures	6	5	3	-	14
Total Study field of Wood Sciences and Technology	6	5	3	-	14(18)
Study field: economics and management					
Economics and management of wood processing industry enterprises	8	0	8	-	16(15)
Study field: security sciences					
Fire protection and safety	10	7	4	-	21(22)
Total Level II	24(16)	12(14)	15(25)	-	51(55)
External study total	115(95)	34(56)	51(70)	42(31)	242(252)

Status as of 31.10.2020
year.

Note: Figures in brackets are from the previous

Overview of the percentage share of the number of students in **the external** form of study in I. and in II. degree by disciplines at the Faculty in the academic year 2019/2020, 2020/2021.

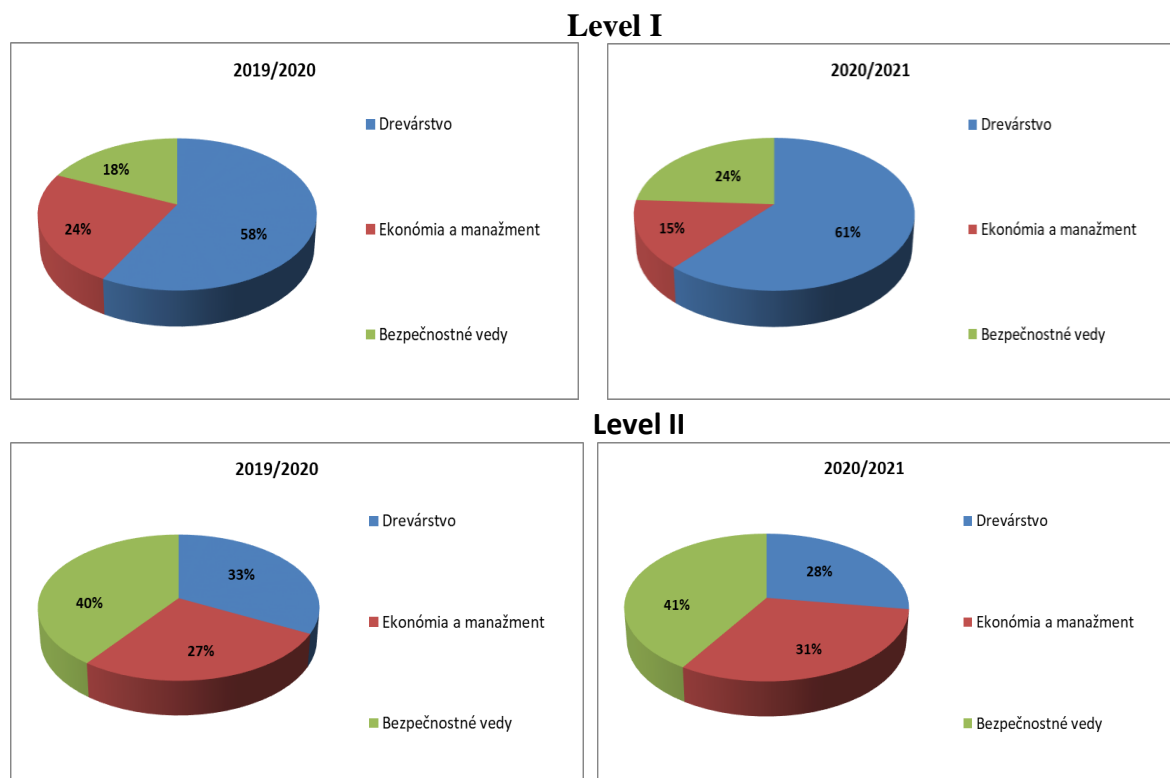


Table 1.3a Overall statistics on the number of students enrolled in the Faculty in the academic year 2020/2021

	Year				Total
	1.Bc + 1.Ing	2.Bc + 2.Ing	3.Bc	4.Bc	
Full-time + external study	1.Bc 305(312) 1.Ing 136(126)	2.Bc 163(180) 2.Ing 115(144)	3.Bc. 149(182) 3.Ing. 15(25)	67(59)	950(1 028)

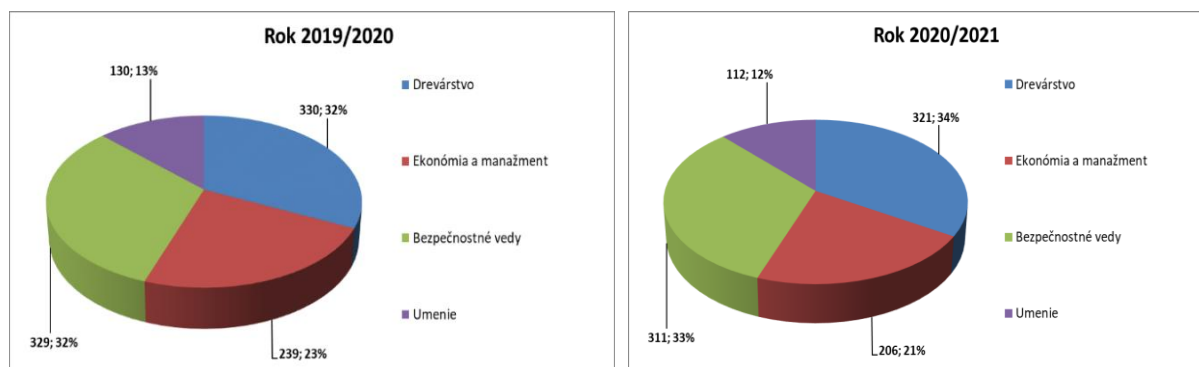
Table 1.3b

Faculty	Full-time form of study				External form of study				TOTAL
	Grade				Grade				
	I.	II.	III.	Total	I.	II.	III.	Total	
DF	493(536)	215(240)	20(21)	728(797)	191(197)	51(55)	15(9)	257(261)	985(1058)

Status as of 31.10.2020

Note: Figures in brackets are from the previous year.

Overview of the percentage share of the total number of **full-time** and **part-time** students in the 1st and 2nd cycle of study by disciplines at the Faculty in the academic years 2019/2020, 2020/2021.



The total number of enrolled students studying at the Faculty of Wood Sciences and Technology decreased by 69 students (-8.6%) for full-time students and by 4 students (-1.5%) for part-time students compared to the previous year.

In 2019, the Department of Design and Processes of Wood Products Production was merged with the Department of Woodworking. The **total number of students in all levels and forms of study was 985, which is a decrease of 6.9% compared to the previous academic year (6% a. y. 2019/2020).**

II. 3. ASSESSMENT OF LEARNING OUTCOMES

Achievements in the academic year 2020/2021 can also be assessed by the number of students (Table 2.1) who have met the conditions for enrolment in the higher year in the academic year 2021/2022.

Table 2.1 Number of students in the academic year 2021/2022 as of 02.10.2021

Vintage	Number of students (active)	Interrupted	Abandonment for acad. year 2020/2021
Full-time study			
<i>Level I</i>			
1.	193	4	86
2.	103	1	35
3.	113	4	27
4.	21		2
<i>Level II</i>			
1.	94	2	8
2.	109	1	10
Total Full-time study	633(708)	12(13)	168(150)
External study			
<i>Level I</i>			
1.	75	3	37
2.	38	1	6
3.	17	4	3
4.	54	1	7
<i>Level II</i>			
1.	41	-	4
2.	15	-	1
3.	14	-	3

Total External study	254(242)	9(9)	61(71)
Total DS+ES	887(950)	21(22)	229(221)

Status as of 02.10.2021 Note: Figures in brackets are from the previous year.

Tables 1.1, 1.2 and 2.1 show that out of 214 full-time students of the first year of the first cycle of studies in the academic year 2020/2021, 103 students are continuing their studies in the second year of the first cycle of studies (in the academic year 2021/2022), 6 students have interrupted their studies, and the others have been excluded for not meeting the conditions for advancement to a higher cycle. 111 students did not progress to the 2nd year, which is 51.8% (in the previous academic years it was 39.5%, 37.8%, 37.5%).

Of the 141 2nd year students in A.Y. 2020/2021, 113 (in A.Y. 2021/2022) entered the 3rd year, which is a decrease of 19.8% (in previous A.Y. it was 18.1%, 13.3%, 13.6%, 19.6%) This is the number of 3rd year students excluding students in the extra length of study.

21 students have entered the 4th year of 2020/2021.

Out of 112 full-time students of the 1st year of the 2nd year of the 2nd degree in the academic year 2020/2021, 3 students did not progress to the 2nd year of the 2nd degree in the academic year 2021/2022.

Out of 91 students of the external form of study of the 1st year of the 1st degree in the academic year 2020/2021 to the 2nd year (in the academic year 2021/2022), 53 students did not advance, which is 58.2% (in previous years 56.9%, 50%, 40%). Of the 22 students in the 2nd year of the 1st cycle in 2020/2021 to the 3rd cycle (in 2021/2022), 5 students did not progress, which is 22.7% (in previous years 14.3%, 8.2%, 6.9%). Out of 36 students of the external form of study of the 1st degree of the 3rd year, 6 students did not advance to the 4th year in the academic year 2020/2021. Out of 24 students of the external form of the II. degree of study of the 1st year in the academic year 2020/2021 did not advance to the 2nd year of the II. degree in the academic year 2021/2022 - 9 students. All students were promoted to the third year of the second cycle.

The total number of leavers for AY 2020/2021 - 229, which is 24.1% (21.5%, 19%, 14.9% in previous AYs).

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.

Overall, it is possible to evaluate the academic year 2020/21 very negatively in terms of the progression of students to the next year of study. The academic year has been significantly affected by the COVID pandemic and the move of teaching to the online space. This has had a very negative impact on the appetite and willingness to study. This was especially evident in the freshmen, who handled the situation very poorly and dropped out of their studies during the course of the academic year. The reduction of credits for advancement to the second semester (0 credits from the original 10) and also to the upper year (20/15 credits from 36/28 credits for full-time and part-time study) was not motivating and the students did not manage to complete their studies despite this. It was not possible to retain the students even after possible interviews and explanations of the need of engineering graduates for practice and their employment. Distance learning was rated as challenging and there was a significant lack of personal contact with both the teacher and fellow students.

Table 2.2 Weighted study average achieved

	2019/2020	2020/2021
	Weighted study average/exam retake index	Weighted study average/exam retake index
Bc.	2,44/1,5	2,44/1,5
Ing.	2,04/1,26	2,02/1,24

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 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 faculty at important national or international events.

An overview of the selected scholarships paid to students of the Faculty for the academic year 2020/2021 is given in Table 2.3. A total of € 65,842 was paid to 182 students without a social scholarship.

Table 2.3 Scholarships at the Faculty in the academic year 2020/2021

Incentive benefit		Motivational extraordinary		Motivational (research)		Motivational For Field of Study	
Number of students	Amount paid	Number of students	Amount paid	Number of students	Amount paid	Number of students	Retrieved from Amount
49	22 050 €	8	1 550 €	8	1 200 €	91	32 942 €

Dean's Award		Rector's Award		Motivational (sports)	
Number of students	Amount paid	Number of students	Amount paid	Number of students	Retrieved from Amount
17	3 350 €	7	4 550 €	2	200 €

Social grant		Pregnancy grant	
Number of students	Amount paid	Number of students	Amount paid
31	54 100 €	1	1000

II. 4. EVALUATION OF THE MAIN EXERCISES AND EXCURSIONS

In the academic year 2020/2021, major exercises and excursions were not implemented due to the COVID_19 pandemic and online teaching.

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 2020/2021 are shown in Table 4.1.

Table 4.1 Graduates of the Faculty of Wood Sciences and Technology in the year 2020/2021

	Faculty of Wood Sciences and Technology	Number of participants	Passed	of which benefited with distinction	Do not pass
I. degree	Full-time study	121	112	9	9
	External study	39	34	-	5
	Total ES + ES	160(174)	146(152)	9(11)	14(22)
II. degree	Full-time study	93	92	8	1
	External study	15	14	1	1
	Total ES + ES	108(147)	106(142)	9(20)	2(5)

Note: Figures in brackets are from the previous year.

State examinations for the Faculty of Science in the academic year 2020/2021 were held according to Annex 2 of the Study Regulations of the Faculty of Science, 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 examination for individual thematic units.

In the first term, 23 committees worked on the state examinations and thesis defences of engineering/master's programmes. In the first term, 34 commissions worked in the state examinations and defences of bachelor theses, in the second term, 11 commissions worked in total in the state examinations and defences of bachelor and master 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. Knowledge gaps were evident this year in Security Sciences, but also in Wood Science, where a total of 9 students had to retake the state exam in the B_POB course, of which 2 students failed even at the remedial term, in Wood Science B_TKN 5 students had to repeat the exam, of which 4 students failed even at the remedial term, B_DS 2 students repeated, 1 student failed at the remedial term, B_EMPDSP 2 students repeated, B_DNI 2 students repeated, and at Ing. I_POB 10 students, I_DS failed 1 student, I_TKN failed 1 student.

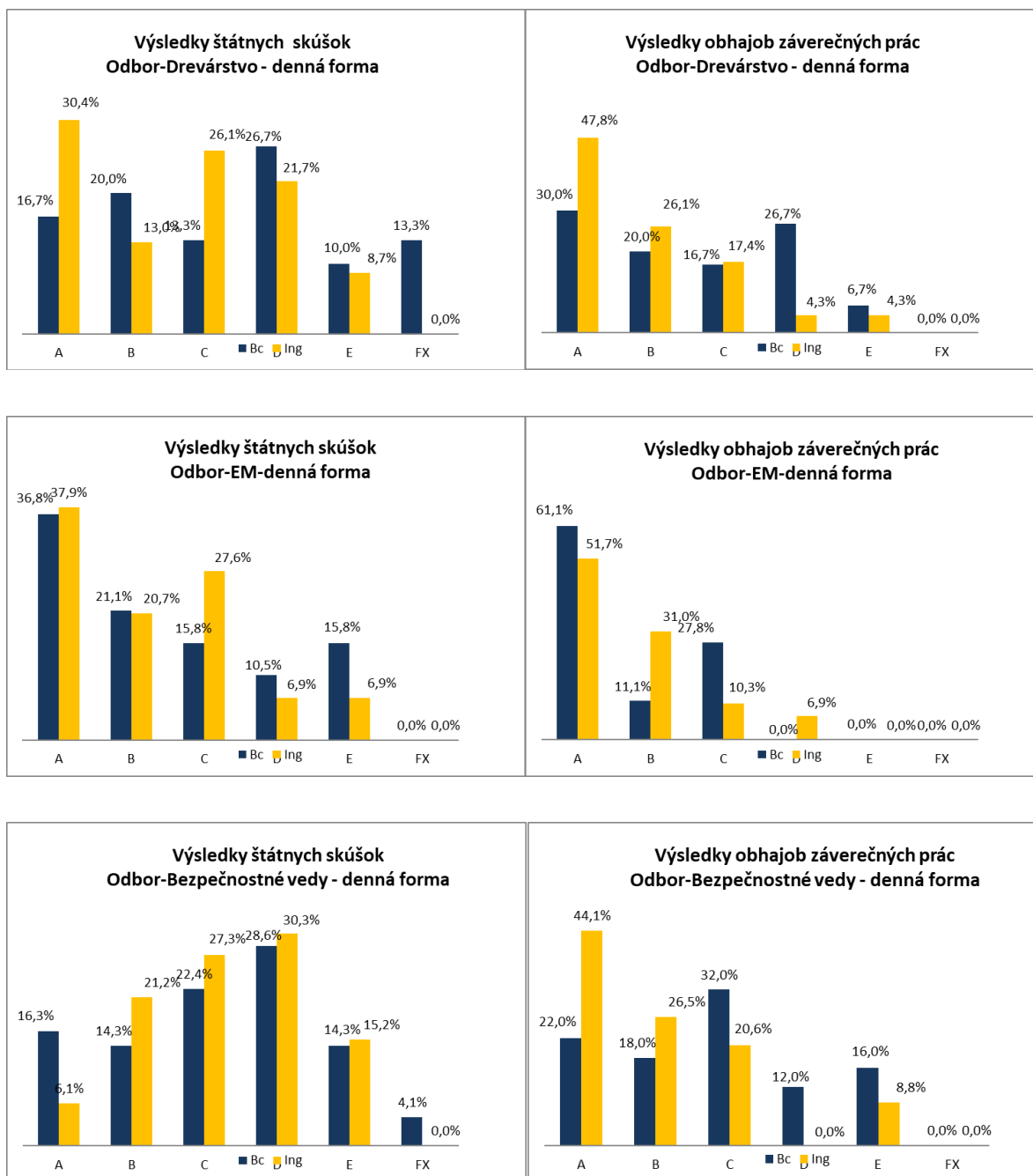
Overall, it can be assessed that the level of students' knowledge has deteriorated compared to last year. This is due to the quality of the students admitted and the knowledge acquired during their previous studies at secondary school and the students' lack of interest in studying and finding intrinsic motivation to perform well, and to some extent to the difficult conditions for preparation during the COVID_19 pandemic.

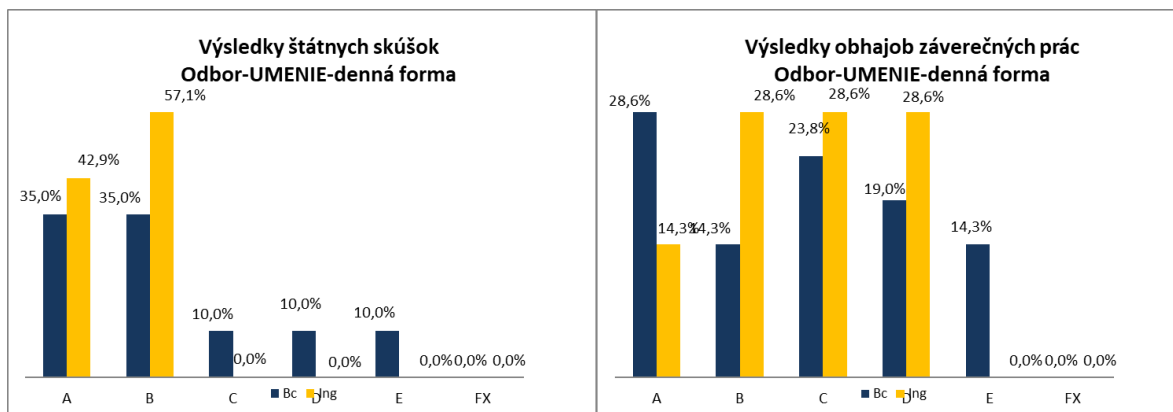
Due to the emergency measures caused by the COVID_19 pandemic and the online teaching of the entire summer semester, access to conduct the required experiments needed to complete the ToR was hampered. For some students, the topics of the ZP were modified, changed.

The conduct of the national examinations was also marked by the COVID_19 situation. The commissions had to comply with increased hygiene standards, which extended the duration of the national examinations and necessitated the need for more commissions. On the positive side, however, the conduct of the ES was conducted by attendance. The members of the commissions made thorough and detailed records of the course of the state examinations and the commissions ensured compliance with the Study Regulations of the Faculty .

The attached graphs show the average scores of the state examinations and final theses by field of study. Compared to last year, the results of the state examinations in all disciplines are comparable but not satisfactory.

Evaluation of state examination results





II. 6. EVALUATION OF ADMISSION PROCEDURES I. and II. degree

The admission procedure for the academic year 2021/2022 has been announced for all accredited study programmes. Admission examinations for full-time studies in the first cycle in the Furniture and Interior Design (Art) programme were held on 21 and 22 April 2021 with a talent test, a test in fine arts, architecture and design and a test of technical creativity - exclusively online.

In the second stage of the School of Furniture and Interior Design, on 29.6.2021, an evaluation of the portfolio of the enrolled students and a personal interview of the candidates with the evaluation committee was carried out, 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 other programmes of the first cycle. Without entrance examinations, on the basis of an assessment of the affinity of the field and programme of the completed first cycle studies and an evaluation of the average of the results achieved during the bachelor's studies and the result of the state examination and the defence of the bachelor's thesis, students were admitted to full-time and part-time studies in other second cycle programmes.

An overview of the projected enrolment numbers by study programme, enrolled, participating, admitted and enrolled students is given in Table 1. 79% (previous a.y. 66.3%, 77.5%, 85.1%) of the planned number of admissions applied for full-time study programmes accredited at The Faculty of Wood Sciences and Technology. However, despite the market conditions for high school graduates, this situation does not change significantly. Compared to the previous year, this situation is the same.

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 1.43 (1.66 last year), Fire Protection and Safety 1.05 (1.2 last year). Compared to the previous year, the interest in the study is the same. 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, despite charging for studies and extending the standard length of study by one year, interest is stable. The planned numbers of students enrolled in the external form of the first and second cycle of studies were met at 48.7% (previous years: 54.7%, 47.2%, 47.5%). However, it is possible to evaluate positively the maintenance of the number of students enrolled from previous years.

The number of full-time students enrolled was 123 (-30%) lower than the number of students admitted (-21.7% last year), which is consistent with the trend of previous years, and is probably due to concurrent admissions to other universities and the entry of prospective students into employment this year. The number of students enrolled in the external form of study was 26 (-18.8%) lower than the number of students admitted. A total of 396 students

(441, 444, 463, previous year) out of a total of 545 admitted students - 72.6% (79%, 77%, 76%, previous year) were enrolled in the study at the Faculty in the academic year 2021/2022.

Despite the fact that admitted students have to confirm their interest in studying at the Faculty by returning a letter, 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. In this academic year, enrolments took place on two dates (July and September) due to the pre-enrolment of students at other universities and were also affected by the pandemic emergency, but were conducted in a contact manner.

In conclusion, the admissions process can be assessed as **positive overall**, despite the decline in enrolments. **The decrease is -45 (10%) students.** In the full-time first-degree form there is a decrease of -13% of students (43 students) but this negative phenomenon has been compensated by the enrolment of the same number of external students as last year. The biggest drop in enrolled students is in the SP - B_POB. The reason for students' lack of interest in enrolling was mainly due to the start of employment and the "concern" that teaching would be online and not face-to-face.

Tab. 5.1 Entrance examinations at the Faculty of Wood Sciences and Technology for acad. year 2021/22

Study field/programme	Plan for adoption	Logged in	Attendees	Accepted	Enrolled
Full-time study					
<i>Level I</i>					
Study field: WOOD SCIENCES AND TECHNOLOGY					
Wood processing with IT support	20	5		5	4(4)
Family business in the timber industry and furniture industry	20	4		0	0
Creation and construction of furniture	30	30		30	21(28)
Timber and wood structures	50	60		60	34(38)
Total Study field of Wood Sciences and Technology	120	99		95	59(70)
Study field: ECONOMICS AND MANAGEMENT					
Economics and Business Management DSP	60	64		64	38(37)
Study field: SECURITY SCIENCES					
Fire protection and safety	100	105		105	62(85)
Study field: ART					
Furniture and interior design	35	50	38	38	31(25)
Total full-time study I. degree	315	318(316)	38	302(301)	190(216)
<i>Level II</i>					
Study field: WOOD SCIENCES AND TECHNOLOGY					
Wood Engineering	20	2		2	2(4)
Management of Wood Sciences and Technology and furniture production	20	1		0	0
Creation and construction of furniture	20	6		6	5(8)
Timber and wood structures	30	21		21	21(13)
Production and Utilisation of Wood Products (taught in English)	10	1		0	0
Total Study field of Wood Sciences and Technology	100	31		29	28(25)
Study field: ECONOMICS AND MANAGEMENT					
Economics and Business Management DSP	50	19		19	19(33)
Study field: SECURITY SCIENCES					
Fire protection and safety	60	44		44	39(47)
Study field: ART					

Furniture and interior design	15	15	13	13	10(10)
Total full-time study II. degree	225	109(117)	13	105(117)	96(111)
Total full-time study	540	427(433)	51	407(418)	286(327)

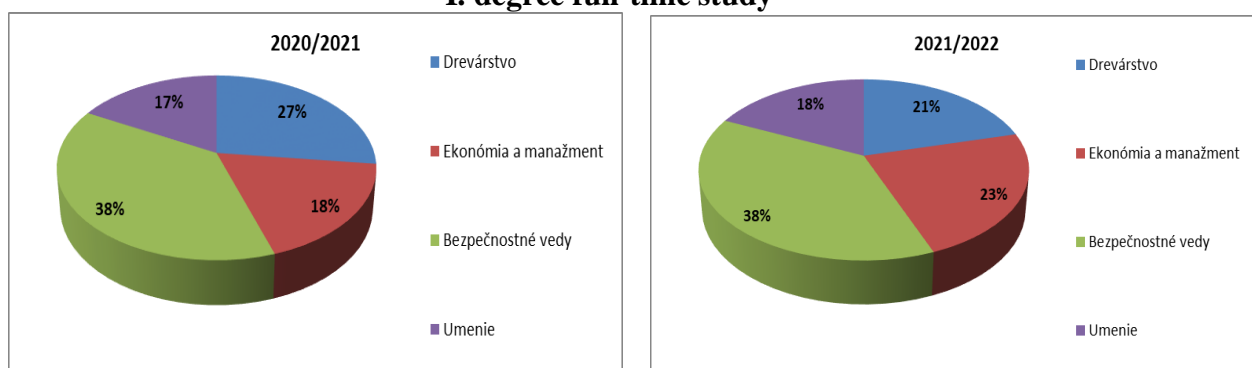
continued from tab. 5.1

Study field/programme	Plan for adoption	Logged in	Attendees	Accepted	Enrolled
External study					
Level I					
Study field: WOOD SCIENCES AND TECHNOLOGY					
Wood processing with IT support	10	1		0	0
Family business in the timber industry and furniture industry	10	0		0	0
Creation and construction of furniture	20	16		16	12(15)
Design and construction of furniture - Volyně, Czech Republic	20	8		8	8(11)
Timber and wood structures	15	21		21	15(13)
Timber and wood structures - Volyně	20	12		12	10(20)
Total Study field of Wood Sciences and Technology	95	58		57	45(59)
Study field: ECONOMY AND MANAGEMENT					
Economics and Business Management DSP	30	15		15	11(9)
Specialisation: SECURITY SCIENCES					
Fire protection and safety	30	21		21	15(22)
Total external study I. degree	155	94(107)		93(107)	71(90)
Level II					
Study field: WOOD SCIENCES AND TECHNOLOGY					
Wood Engineering	10	0		0	0
Management of Wood Sciences and Technology and furniture production	10	1		0	0
Creation and construction of furniture	10	4		4	4(0)
Timber and wood structures	10	4		4	4(6)
Total Wood processing	40	9		8	8(6)
Study field: ECONOMY AND MANAGEMENT					
Economics and Business Management DSP	15	11		11	11(8)
Specialisation: SECURITY SCIENCES					
Fire protection and safety	20	27		26	22(10)
Total external study II. degree	75	47(27)		45(27)	41(24)
Total external study	230	141(134)		138(134)	112(114)
Full-time and part-time study together					
Level I	470	412(423)	38(49)	395(408)	261(306)
Level II	300	156(144)	13(8)	150(144)	135(135)
DF	770	568(567)	51(57)	545(552)	396(441)

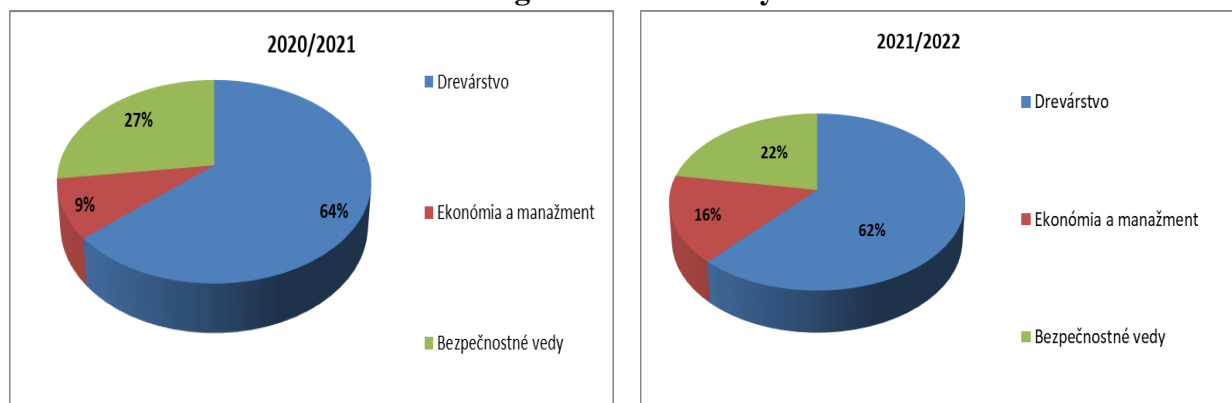
Note: Figures in brackets are from the previous year.

Total interest of all enrolled students in studying at the Faculty in the first cycle according to the enrolment in the field of study.

I. degree full-time study

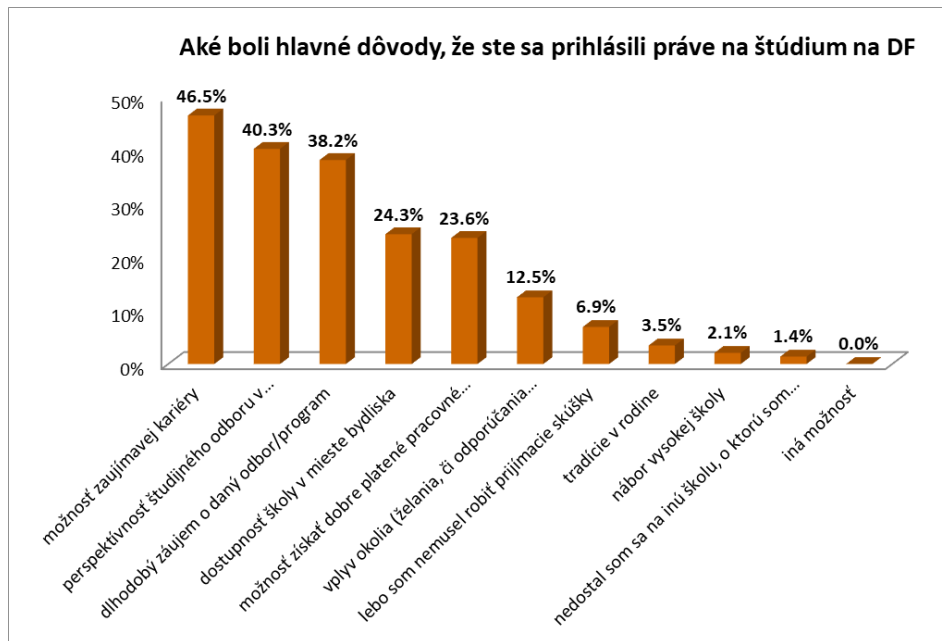


I. degree external study

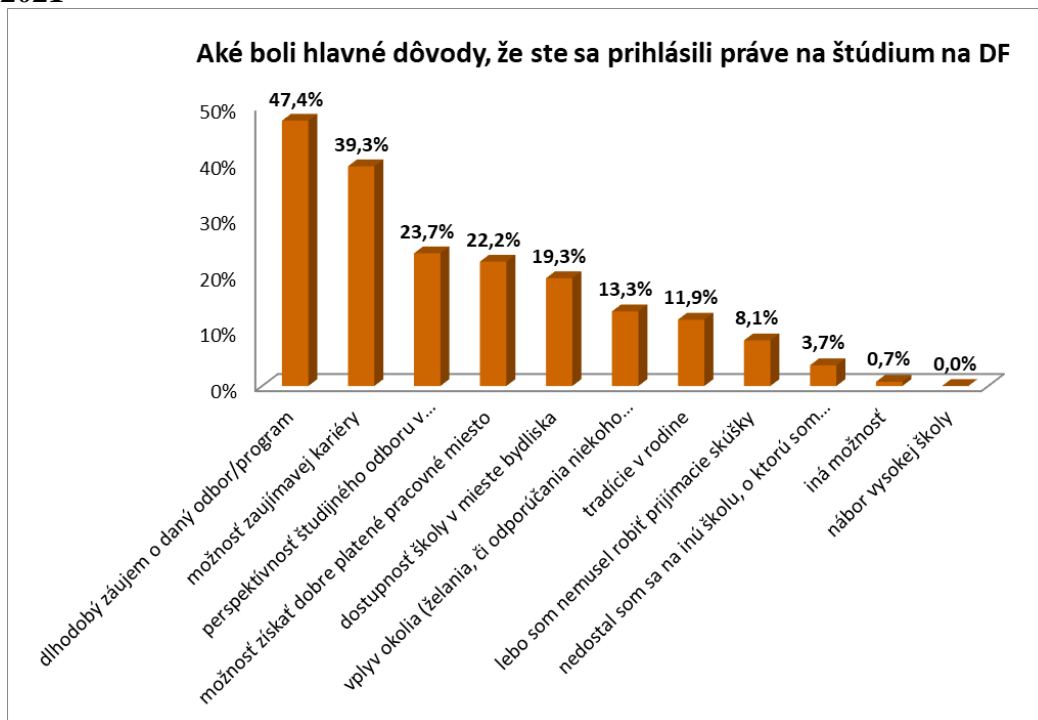


In the following section, the results of the questionnaire filled in by first year students of the first cycle of studies when enrolling for studies are processed. A total of 135 respondents answered the questionnaire. From the individual responses it is possible to ask questions and formulate answers on where to direct e.g. the marketing activities of the faculty in order to increase interest in studies.

Year 2020

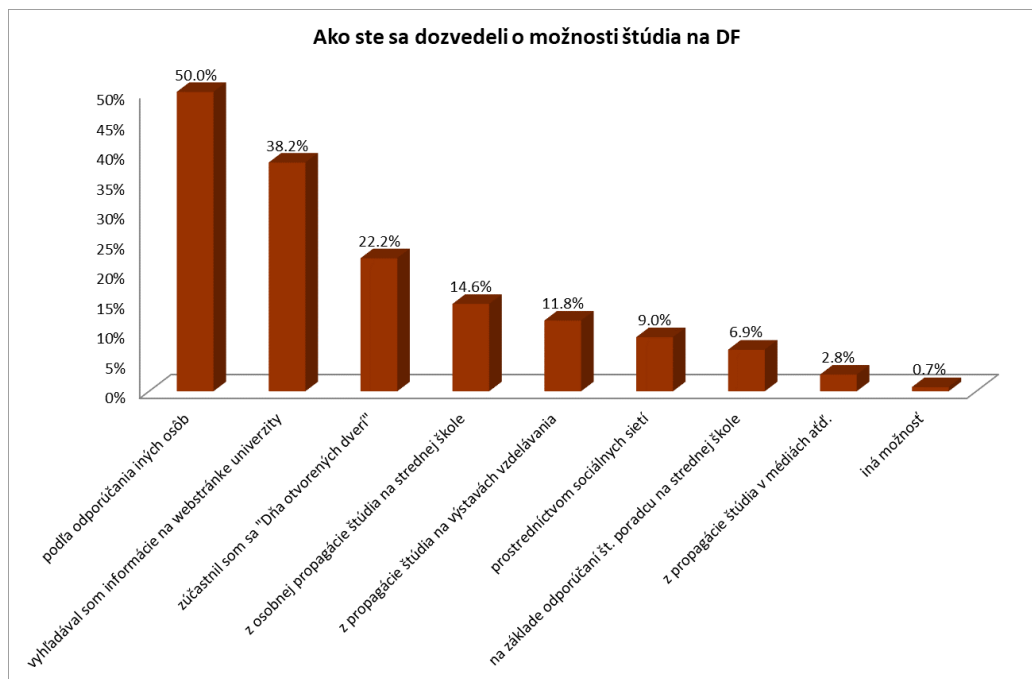


Year 2021

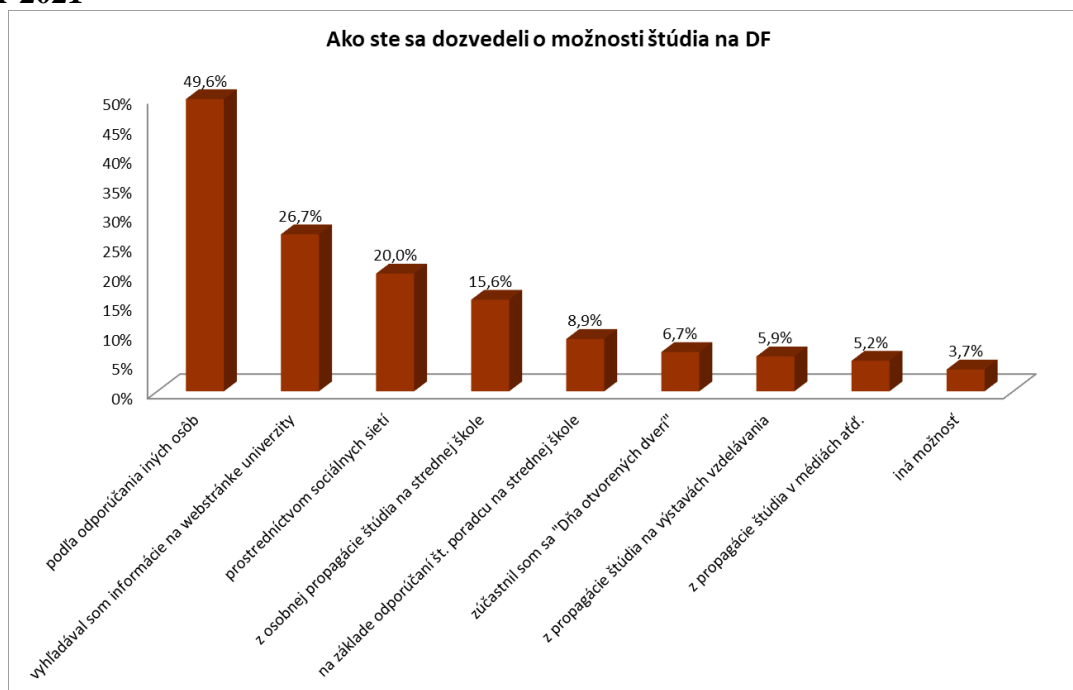


The answer "the possibility of an interesting career and a long-term interest in the field" are good signals for the DF in the future perspective of those interested in studying it.

Year 2020



Year 2021



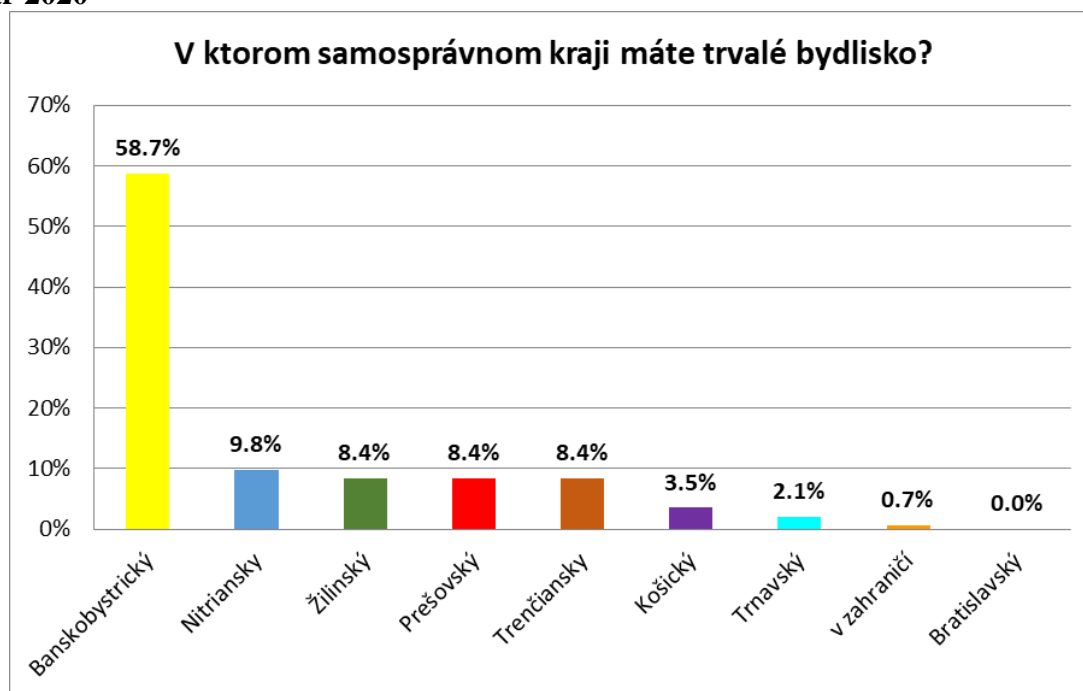
A very important factor influencing a potential candidate's decision is a recommendation from another person and therefore only a positive experience in the DF environment. Any negative mention has the effect of making the candidate unsure and looking for an alternative.

The content of the DF website and the promotion on social media need constant attention.

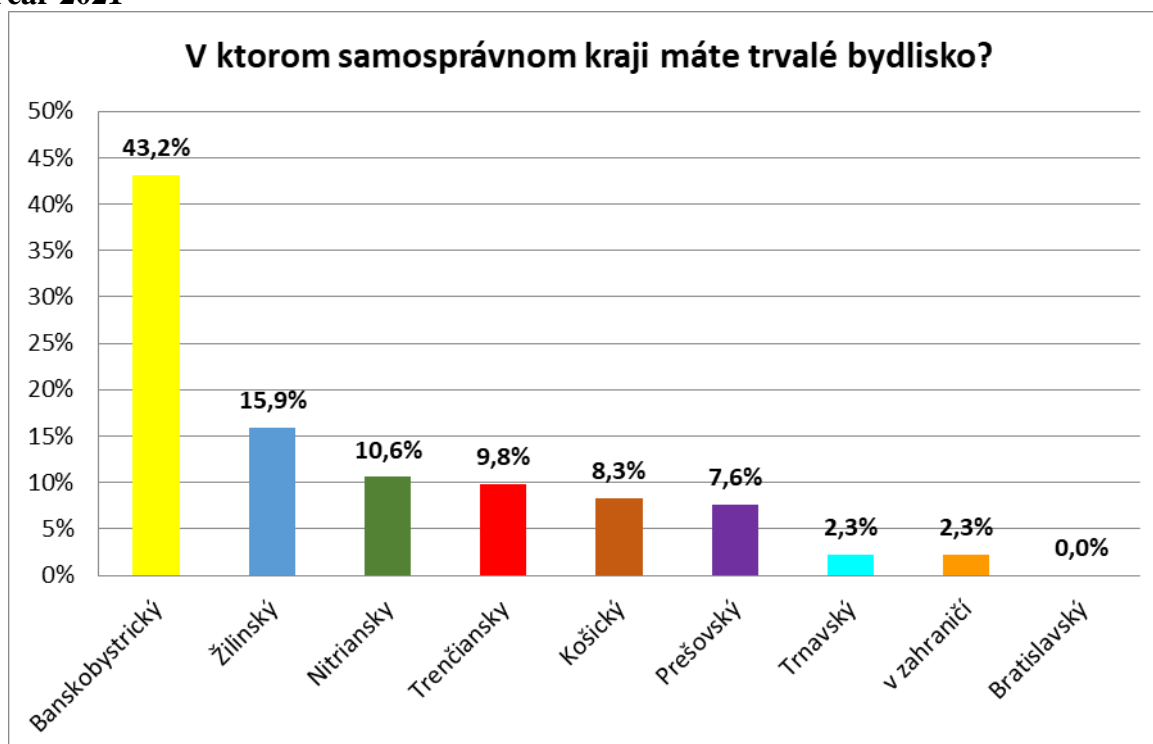
The years 2020 and 2021 were specific due to the absence of promotional exhibitions and an open day due to the COVID_19 pandemic. The whole promotion of the DF was transferred

to the online space only - various virtual open days implemented by external companies and a significant increase in interest in social networks, as can be seen in the increase in the % of interest in this medium. This aspect of promotion needs to be strengthened again this year to the maximum possible level.

Year 2020



Year 2021



A good signal in terms of student interest in DF is the redirection of students from regions other than BB. The difference is more than 15 percentage points compared to the previous year.

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

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

- in the field of Woodworking study programme Wood Processing Technology, Structure and Properties of Wood and study programme Design and Processes of Wood Products Production,
- in the field of Protection of Persons and Property study programme Fire Protection and Security (catching up),
- in the field of Security Sciences study programme Fire Protection and Security,
- in the field of Art study programme Furniture and Housing Design.

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.

Table 6.1 Overview of the number of students in level III by year and form of study in the academic year 2020/2021 (as of 31 October 2020)

Vintage	Form of study		Number of students	
	Daily	External	Together	of which foreign
1st year	6	6	12	0
2nd year	6	1	7	0
3rd year	8	4	12	0
4th year		2	2	0
5th year		2	2	0
Total	20 (21)	15 (9)	35 (30)	0 (0)

Note: Figures in brackets are from the previous year.

Table 6.2 Overview of the number of students in Level III by field and programme in a. 2020/2021 (as of 31.10.2020)

Study programme	Number of students (form of study)						
	Total	Total		of which Newcomers		of which Foreign	
		Daily	External	Daily	External	Daily	External
Wood processing technology	5	5	-	1	-	-	-
Wood processing technology ending pr.	1	-	1	-	-	-	-
Timber and wood structures	3	2	1	1	1	-	-
DV design and manufacturing processes	7	4	3	1	-	-	-
DV design and manufacturing processes – ending programme.	1	-	1	-	-	-	-

Fire protection and safety	8	3	5	2	3	-	-
Fire protection and safety ending prog.	1	-	1	-	-	-	-
Furniture and living design	9	6	3	1	-	-	-
Total	35(30)	20(21)	15(9)	6	4	0 (0)	0 (0)
				10 (7)			

Note: Figures in brackets are from the previous year.

Numbers of doctoral students have stabilised. The number of students enrolled in 2021/2022 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 graduates of level III in the academic year 2020/2021 (as of 31 August 2021)

Field of Study/Programme	Number of graduates		
	daily form	external form	Total
Wood processing technology	3	-	3
Structure and properties of wood	1	-	1
DV design and manufacturing processes	1	1	2
Fire protection and safety	1	-	1
Furniture and living design	-	-	-
Total	6(5)	1 (1)	7 (6)

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 2021/2022 (all/new entrants)

Field of Study/Programme	Number of students	
	Daily	External
Security Sciences/Fire Protection and Safety	3/1	4/1
Wood Technology/Wood Processing Technology	3/1	1/-
Woodworking / Structure and properties of wood	1/-	1/-
Woodworking/Fabrication and processes of wood products	7/4	4/2
Designs and processes for the manufacture of wood products	-/-	1/-
Art/Furniture and living Design	6/1	2/1
¹ Economics and Management/Economics and Management of the Forestry and Timber Complex	11/3	5/2
Total	31/10	18/6

Note: all/new entrants

¹ A study programme implemented by the university. Of the sixteen students, thirteen students have a dissertation supervisor from the DF staff.

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, FT 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 the Faculty of Wood Sciences and Technology and the Faculty of Economics. Hours for consultation and examination have been added to the actual teaching hours of the teachers in the academic year 2020/2021, according to the current uniform calculations at TU.

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 inclusion of the university, the applicability of graduates in practice, the 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.

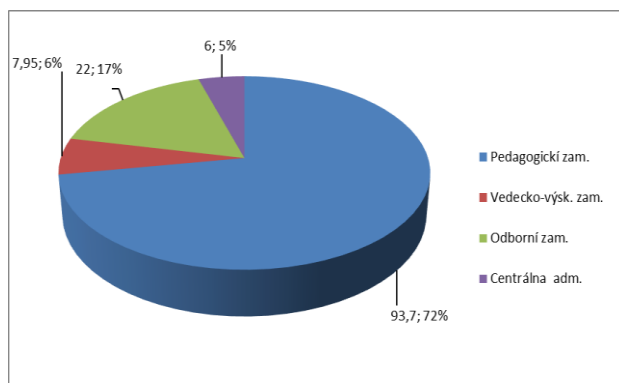
Table 7.1 Structure of DF staff by job classification as of 30.6.2021

Workplace	Pedagogical Full-time	Science-full-time research	Professional employees.	Central Administration	DF
Dean's Office DF	-	-	-	6	6
KDNI	13,5	1	2	-	16,5
KDS	7	-	1	-	8
KFEAM	6	-	0,4	-	6,4
KCHCHT	5	-	4,6	-	9,6
KMDG	8	-	1	-	9
KMOSL	9,5	-	1	-	10,5
KDT	6	-	4	-	10
KND	4	1,8	2	-	7,8
KNDV	7	1	2	-	10
CODE	4	2	0	-	6
KEMP	13	0,9	1	-	14,9
KPO	11,5	1*	3	-	14,5+1*
Total	94,5	6,7+1*	22	6	129,2+1*

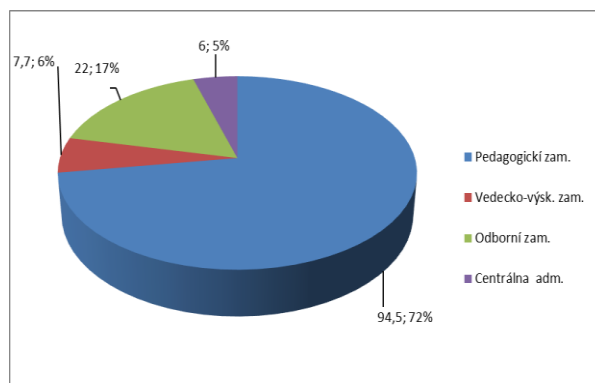
* 100% funding from the Lignopro project

Structure of the DF staff according to their classification.

Year 2020



Year 2021



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 teaching staff contribute not only to the teaching performance of the faculty but also to a significant extent to the performance in research activities. Similarly, research and professional staff also contribute to the 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 adds up to approx. 1 950 hours per year, including holidays. The networking time is approx. 1550 hours. The tables show the teaching load of the teachers of the Faculty of Wood Sciences and Technology in the individual departments in the academic years 2019/2020 and 2020/2021 expressed in direct teaching, indirect teaching (thesis supervision) and total teaching hours. Tables 7.2 and 7.3 summarise the so-called evaluation scores obtained from the UIS. The data are based on timetable actions, so it is very important that the person in charge of the course assigns teachers to the timetable actions of lectures and tutorials or seminars. Failure to do so will result in the evaluation points not being calculated correctly. The teaching load of the department is the value of the teaching staff only. Teaching hours in 2020/2021 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.

Table 7.2 Teaching of the departments of the Faculty of the University of Science and Technology in the academic year 2019/2020 (UIS evaluation scores used)

Department	Full-time	Teaching calculated in total h	Final thesis total h	Total h	Average per 1	% of total
KDNI	11,75	46 798,30	1 830	48 628,30	4 138,58	37,58
KPO	11,50	10 910,08	4 390	15 300,08	1 330,44	11,82
KMOSL	9,50	7 040,50	3 270	10 310,50	1 085,32	7,97
KFEAM	6	5 185,99	1 110	6 295,99	1 049,33	4,87
CODE	4	3 760,20	360	4 120,20	1 030,05	3,18
KDS	7	5 201,28	1 980	7 181,28	1 025,90	5,55
KEMP	12,95	9 364,00	3 480	12 844,00	991,81	9,93
KND	4	3 422,00	450	3 872,00	968,00	2,99
KMDG	7	6 475,00	150	6 625,00	946,43	5,12
KDT	6	3 993,50	1 110	5 103,50	850,58	3,94
KNDV	7	4 247,00	860	5 107,00	729,57	3,95
KCHCHT	7	3 391,92	620	4 011,92	573,13	3,10
DF	93,70	109 789,77	19 610,00	129 399,77	1 381,00	100,00

Table 7.3 Teaching of the departments of the Faculty of the University in the academic year 2020/2021 (UIS evaluation scores used)

Department	Full-time	Teaching calculated in total h	Final thesis total h	Total h	Average per 1	% of total
KDNI*	13,5	40 647,61	1 680	42 327,61	3 135,38	36,27
KPO	11,5	10 367,91	4 260	14 627,91	1 271,99	12,53
KDS	7	52 95,27	2 280	7 575,27	1 082,18	6,49
CODE	4	3 781,60	210	3 991,60	997,90	3,42
KMOSL	9,5	6 388,59	2 790	9 178,59	966,17	7,86
KCHCHT	5	3 919,52	780	4 699,52	939,90	4,03
KFEAM	6	5 158,10	450	5 608,10	934,68	4,80
KND	4	3 093,00	420	3 513,00	878,25	3,01
KEMP	13	8 673,00	2 550	11 223,00	863,31	9,62
KMDG	8	5 812,50	150	5 962,50	745,31	5,11
KDT	6	3 166,50	630	3 796,50	632,75	3,25
KNDV	7	3 790,60	420	4 210,60	601,51	3,61
DF	94,50	10 0094,20	16 620,00	11 6714,20	1 235,07	100,00

*The higher number of hours in the Department of Furniture and Interior Design reflects the need to involve more staff for teaching studios. Studio is subsidized by 10 hrs and a factor of 3 and is counted at 100% for each staff member.

The average teaching load of the teachers of the Faculty of Wood Sciences and Technology is high in the long term. A level of about 900 hours is considered optimal. The workload has decreased by about 10% compared to the previous year, which reflects the smaller number of students, open courses and groups.

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, KDS, KMOSL) is even increased due to the high number of theses conducted and defended in the programme. Students preferentially choose the topic of the thesis from the teachers of this department.

Tab. 7.4 Number of final theses at DF

Workplace	BP	DP	DizP	Total
Faculty of Wood Sciences and Technology	187 (165)	124 (120)	14 (9)	325 (294)
Department of Mathematics and Descriptive Geometry (DF)	1 (1)	2 (2)	-	3 (3)
Department of Chemistry and Chemical Technology (DF)	8 (7)	7 (7)	-	15 (14)
Department of Wood Science (DF)	-	3 (3)	3 (3)	6 (6)
Department of Physics, Electrical Engineering and Applied Mechanics (DF)	8 (7)	2 (2)	1 (0)	11 (9)
Department of Furniture and Wood Products (DF)	7 (6)	2 (2)	-	9 (8)
Department of Marketing, Business and World Forestry (DF)	17 (12)	31 (31)	1 (1)	49 (44)
Department of Woodworking (DF)	3 (3)	1 (1)	1 (1)	5 (5)
Department of Fire Protection (DF)	59 (50)	30 (28)	1 (1)	90 (79)
Department of Wooden Structures (DF)	28 (25)	17 (16)	1 (0)	46 (41)
Department of Furniture and Interior Design (DF)	22 (22)	7 (7)	2 (0)	31 (29)
Department of Wood Technology (DF)	7 (7)	3 (2)	2 (2)	12 (11)
Department of Economics, Management and Entrepreneurship (DF)	27 (25)	19 (19)	1 (1)	47 (45)

Item.: In brackets is the number of successfully defended theses (BP - Bachelor thesis, DP - Diploma thesis, DizP - Dissertation thesis)

The number of final theses in each department reflects the number of students in the study programme for which the department is the guarantor. 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 2020/2021

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		477 218	10 492	6 486	13 788	18 402	49 168
			260	21 831	728	0	22 819
Rekt		0					0
		18 402					18 402
ÚCJ (043)		25 062					25 062
ISTC (087)		2 240					2 240

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	391 874	9 520	4 032	12 138	15 624	433 188
FEE	0	0	0	0	0	0
FT	17 346	0	0	0	0	17 346
LF	728	0	0	0	0	728
Rekt	0	0	0	0	0	0
ÚCJ (043)	20 888	0	0	0	0	20 888
ISTC (087)	2 240	0	0	0	0	2 240

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 the given form of study.

Issued/Accepted by	DF	FEE	FT	LF	Rekt	Total
DF	85 344	972	2 454	1 650	2 778	93 198
FEE	260	0	0	0	0	260
FT	4 485	0	0	0	0	4 485
LF	0	0	0	0	0	0
Rekt	0	0	0	0	0	0
ÚCJ (043)	4 174	0	0	0	0	4 174
ISTC (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 faculty departments.

Providing workplace	DF	FEE	FT	LF	Rekt	Total	Share to the best	Proportion to the whole
<u>KDNI (051)</u>	67 100	84	0	0	0	67 184	75,73 %	12,76 %
<u>KDS (049)</u>	38 731	0	0	0	0	38 731	43,66 %	7,36 %
<u>KDT (056)</u>	17 508	0	0	0	560	18 068	20,37 %	3,43 %
<u>KEMP (057)</u>	69 514	434	0	56	4 372	74 376	83,83 %	14,13 %
<u>KFEAM (014)</u>	31 730	2 590	0	0	0	34 320	38,68 %	6,52 %
<u>KCHCHT (012)</u>	24 227	3 648	0	280	0	28 155	31,74 %	5,35 %
<u>KMDG (011)</u>	38 465	3 484	6 486	7 920	1 842	58 197	65,60 %	11,06 %
<u>KMOSL (018)</u>	37 312	0	0	1 264	11 532	50 108	56,48 %	9,52 %
<u>KNDV (016)</u>	23 123	0	0	0	0	23 123	26,06 %	4,39 %
<u>KND (013)</u>	22 490	224	0	4 268	44	27 026	30,46 %	5,13 %
<u>CODE (021)</u>	18 328	0	0	0	52	18 380	20,72 %	3,49 %
<u>KPO (022)</u>	88 690	28	0	0	0	88 718	100,00 %	16,85 %
Total	477 218	10 492	6 486	13 788	18 402	526 386	---	---

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>	0					0	0,00 %	0,00 %
<u>KEVTUR (029)</u>	260					260	100,00 %	100,00 %
<u>KPTK (024)</u>	0					0	0,00 %	0,00 %
Total	260					260	---	---

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>KMSD (047)</u>	13 472					13 472	100,00 %	61,71 %
<u>KVAT (055)</u>	6 151					6 151	45,66 %	28,18 %
<u>KVTMKv (054)</u>	0					0	0,00 %	0,00 %
<u>KVTMK (046)</u>	0					0	0,00 %	0,00 %
<u>KVTM (039)</u>	2 208					2 208	16,39 %	10,11 %
Total	21 831					21 831	---	---

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>	728					728	100,00 %	100,00 %
<u>KERLH (007)</u>	0					0	0,00 %	0,00 %
<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>	0					0	0,00 %	0,00 %
<u>KPLZI (058)</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	728					728	---	---

Overview of student hours provided by DF faculty departments Rekt

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

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

Providing workplace	DF	FEE	FT	LF	Rekt	Total	Share to the best	Proportion to the whole
<u>ÚCJ (043)</u>	25 062					25 062	100,00 %	100,00 %

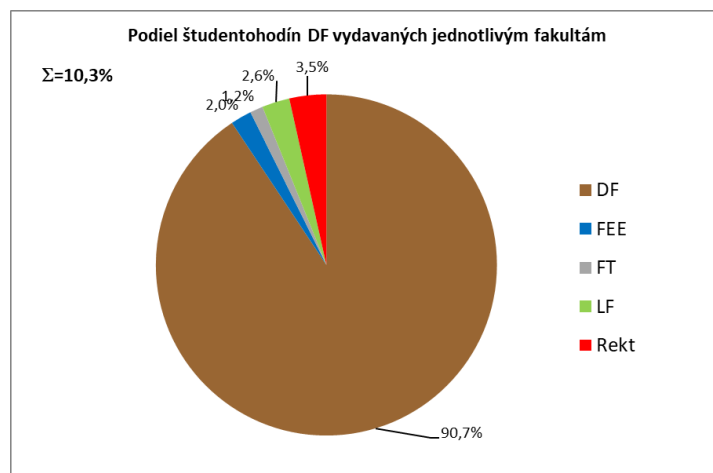
Overview of student hours provided by the DF departments of the faculty of the Institute of Education and Training (087)

Providing workplace	DF	FEE	FT	LF	Rekt	Total	Share to the best	Proportion to the whole
ITC (087)	2 240					2 240	100,00 %	100,00 %

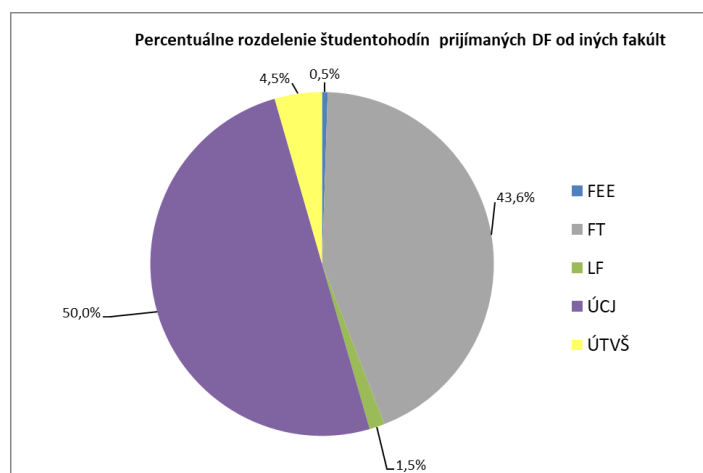
The Faculty of Wood Sciences and Technology provides 10.3% of the total output (49 168 h) to other TU components. It draws from the other components a total of 50 121 h - the largest part of 50 % is provided by the teaching of the Institute of Foreign Languages (source Table 7.5).

It is very important to note that the correct display of the real values of student hours is conditioned by the correct and complete completion of the course information sheets (course leader, lesson allocation, etc.) and, of course, the completed timetable characteristics of each course for the teacher-educators. It can be stated that at DF this condition is fulfilled at a relatively high percentage, therefore these values can be considered highly realistic. The downward trend in teaching is of course also reflected in this treatment of teaching load. There is a significant decrease in the level of teaching provided by the DF for the university-wide SP (-24%). The overall decrease in teaching spend for the other components of TU is 27%. The decrease in hours received from other components is at 20%.

Year 2020/2021



Year 2020/21



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

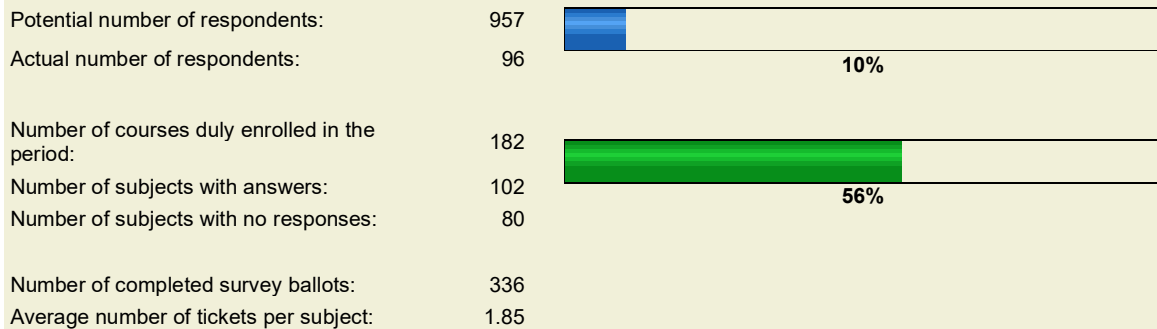
In the academic year 2020/2021, as in the previous year, the application of the evaluation of the quality of the educational process was launched via the University Information System (UIS). Students could comment via the UIS on the quality of the educational process for each of their courses that were 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 involved in the evaluation of the quality of their studies is shown in Table 8.1. There is a slight increase in student involvement compared to the previous year, especially in the LS. It is therefore necessary to pay continuous 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 evaluations, students had the opportunity to express their overall satisfaction with their studies at the Faculty of TU Zvolen through the TU Zvolen website. 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 2020/2021		
Course evaluation		
Potential number of respondents:	1002	
Actual number of respondents:	87	8%
Number of courses duly enrolled in the period:	166	
Number of subjects with answers:	54	32%
Number of subjects with no responses:	112	
Number of completed survey ballots:	203	
Average number of tickets per subject:	1.22	
Additional questions		
Potential number of respondents:	941	
Actual number of respondents:	25	2%

Period: DF - FY 2020/2021

Course evaluation



Additional questions



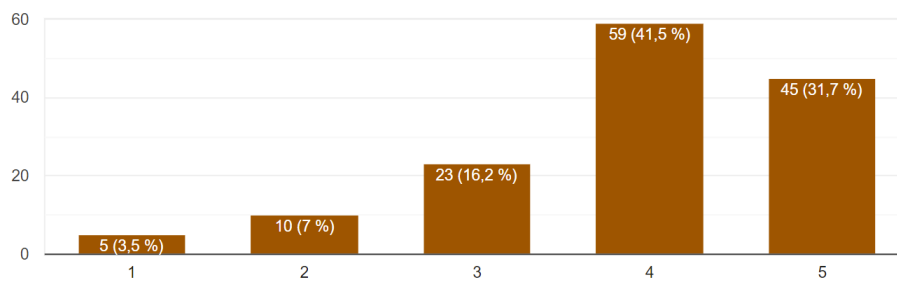
The Faculty of Wood Sciences and Technology conducted an online survey "Evaluation of distance learning and examination process at the Faculty of Wood Sciences and Technology for the winter semester 2020/21". A total of 142 students participated in the evaluation.

The questions were built to find out the hardware equipment, internet connection, amount of free data, problems with state literature, evaluation of the teaching and testing itself. Students were asked to list at least 3 subjects that they felt were best handled in distance learning (subject, teacher, form of distance learning), but also to name specific problems, shortcomings in teaching, testing. The results of the survey were communicated to the heads of the departments. The overall satisfaction with the mastery of distance learning and testing can be evaluated very positively. The negative evaluations, suggestions for improvement and, of course, the countless compliments for the lecturers were also very valuable. *I select one reaction from the many. "I just want to thank all the educators for making it through, for being willing to take the extra time to explain some things to us better, as it's not quite as easy this way online, neither for them nor for us to understand. As a first-year student, I don't notice the changes in the teaching, as I have only been experiencing the true, face-to-face form for 2 weeks, everything has its advantages and disadvantages, of course, but I think that if you have to and, above all, if you want to, everything can be managed... Well, we'll see how it goes in the upper years, as we're always being scared that it's only going to get worse. 😊"*

From the questionnaire answers we select:

Zhodnotte úroveň zabezpečenia dištančnej výučby na DF v ZS 2020/21.

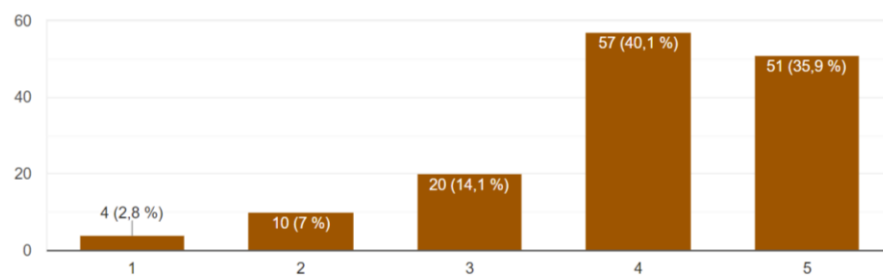
142 odpovedí



1 - poor level, 5 - excellent level

Zhodnotte úroveň zabezpečenia a formu skúšania na DF v ZS 2020/21.

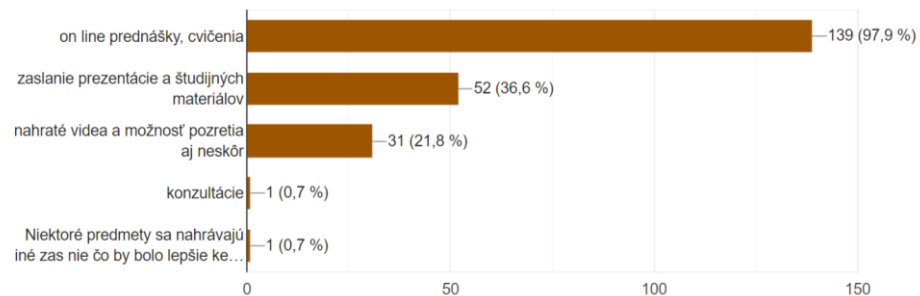
142 odpovedí

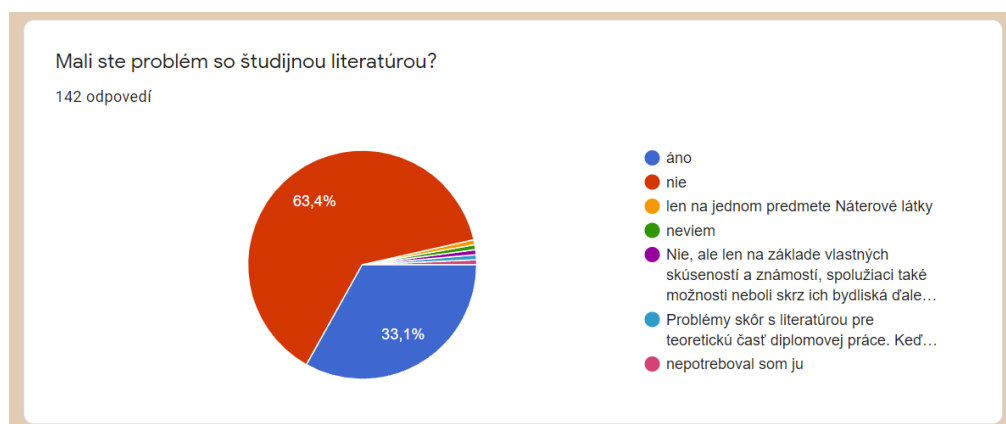


1 - poor level, 5 - excellent level

Prevažná forma vyučovania a komunikácie vyučujúceho so študentom

142 odpovedí





II. 10. IMPLEMENTATION OF THE DF EDITORIAL PLAN FOR 2021

The actual implementation of the 2020 editorial plan is shown in Table 9.1.

Tab. 9.1 Implementation of the DF editorial plan for 2020

Type of publication	Planned number	Number submitted	Fulfillment
Textbooks	5	2	40%
Scripts	5	1	20%
Artistic monograph	-	-	-
Scientific monograph	9	7	77%
Professional book publication	1	-	0%
Proceedings of scientific papers	1	1	100%
Proceedings of the approved GTC	1	1	100%
Other special-purpose publications	1	1	100%
Total	23	13	56%

Of these, outside the 2020 Editorial Plan, 1 title of a script, 2 titles of a scientific monograph, 1 title of a professional book publication were approved and published:

II. 11. STATUS OF ACCREDITATION OF STUDY PROGRAMMES AND DEVELOPMENT OF INTEREST IN STUDYING AT THE FACULTY OF WOOD SCIENCES AND TECHNOLOGY

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 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. 2021) - current accreditation

Degree of study	Field of Study	Study programme	Form Study	Length Study	Guarantor /PZ, SG
I.	Woodworking	Woodworking - Catching up	D,E	3/4	prof. L. Dzurenda Prof. I. Klement doc. Kminiak
		Wood processing with IT support	D,E	3/4	prof. L. Dzurenda Prof. I. Klement doc. Kminiak
		Creation and construction of furniture	D,E	3/4	prof. J. Kúdela prof. R. Réh doc. P. Joščák
		Design and construction of furniture - Volyně, Czech Republic	E	4	doc. R. Lagaňa doc. I. Kubovský doc. Hřčka
		Management of wood and furniture production - catching up	D,E	3/4	prof. J. Sedláčik prof. M. Hitka doc. L. Křišťák
		Family business in the wood and furniture industry	D,E	3/4	prof. J. Sedláčik prof. M. Hitka prof. M. Sedláčiková
		Timber and wood structures	D,E	3/4	prof. J. Štefko prof. L. Reinprecht prof. M. Sikliencko
		Timber and wood structures - Volyně CR	E	4	doc. A. Rohanová doc. M. Mamonova doc. L. Křišťák
	Economics and Management	Economics and management of wood processing industry enterprises	D,E	3/4	doc. J. Drábek doc. A. Sujová doc. M. Potkány
	Security Sciences	Fire protection and safety	D,E	3/4	prof. D. Kačíková Prof. F. Kacik doc. A. Danihelová
	Art	Furniture and interior design	D	4	doc. M. Ihring prof. J. Veselovský doc. R. Baďura
II.	Woodworking	Wood Engineering	D,E	2/3	prof. L. Dzurenda Prof. I. Klement doc. Kminiak
		Creation and construction of furniture	D,E	2/3	prof. J. Kúdela prof. R. Réh doc. P. Joščák
		Management of woodworking and furniture production	D,E	2/3	prof. J. Sedláčik prof. M. Hitka doc. L. Křišťák
		Production and Utilisation of Wood Products	D	2	prof. L. Reinprecht doc. M. Gajtanska
		Timber and wood structures	D,E	2/3	prof. J. Štefko doc. R. Lagaňa prof. M. Sikliencko
	Economics and Management	Economics and management of wood processing industry enterprises	D,E	2/3	prof. M. Šupín doc. A. Sujová prof. M. Sedláčiková
	Security Sciences	Fire protection and safety	D,E	2/3	prof. D. Kačíková Prof. F. Kacik doc. A. Danihelová

continued Tab.- 10.1

	Art	Furniture and interior design	D	2	prof. J. Veselovský doc. M. Ihring doc. R. Baďura
III.	Woodworking	Wood processing technology	D,E	3/4	prof. L. Dzurenda prof. L. Reinprecht Prof. I. Klement
		Structure and properties of wood	D,E	3/4	prof. J. Kudel doc. R. Lagaňa doc. Mamoňová
		Designs and processes for the manufacture of wood products	D,E	3/4	prof. J. Štefko, prof. J. Sedliačik doc. P. Joščák
	Security Sciences	Fire protection and safety	D,E	3/4	Prof. F. Kacik prof. D. Kačíková, doc. A. Majlingová
	Art	Furniture and housing design	D/E	3/4	prof. Veselovský doc. M. Ihring doc. R. Baďura
Habilitation and inaugurations	Wood processing technology	Wood processing technology	prof. L. Dzurenda/ prof. L. Reinprecht, prof. I. Klement		
	Structure and properties of wood	Structure and properties of wood	doc. R. Lagaňa, doc. R. Hrčka		
	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		
	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 at 31.08.2021)

External Form - Catching up accreditation

Field of Study	Name of study programme	Form Study	Length Study	Guarantor /spolugarant
Woodworking	Construction of Timber and wood structures and furniture (Volyně, Czech Republic)	E	4	

Tab. 10.3 Accredited study programmes of the Faculty of Wood Sciences and Technology
(status as of 31. 08. 2021) - 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, Prof. 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. 10.4 Study programmes of the first degree - number of admitted/enrolled students at The Faculty of Wood Sciences and Technology, University of Technology in Zvolen 2018/2019 - 2021/2022 /status as of 01.10.2021/

Field and study programme	Admitted/enrolled							
	2018/2019		2019/2020		2020/2021		2021/2022	
	D	E	D	E	D	E	D	E
Designs and processes of woodworking products/ Woodworking								
Timber and wood structures	52/39	17/14	51/41	25/20	46/38	16/13	60/34	21/15
Timber and wood structures - from 2016/17 - Volyně ČR	-/-	19/19	-/-	23/19	-/-	22/20	-/-	12/10
Total	52/39	36/33	51/41	48/39	46/38	38/32	60/34	33/25
Woodworking								
Wood processing/ from 2020/21 IT-supported woodworking	5/2	2/1	6/5	0/0	4/4	0/0	5/4	0/0
Creation and construction of furniture	15/8	11/9	28/22	6/5	30/26	18/15	30/21	16/12
Creation of furniture design (Volyně, Czech Republic)	-/-	4/4	-/-	6/4	-/-	11/11	-/-	8/8
Management of woodworking and furniture production/ from 2020/21 Family business in woodworking and furniture	6/3	1/0	3/2	0/0	5/1	1/0	-/-	-/-
Total	26/13	18/14	37/29	12/9	39/31	30/26	35/25	24/20
Economics and Business Management/Economics and Management								
Economics and management of wood processing industry enterprises	79/51	20/15	75/51	14/12	57/37	10/9	64/38	15/11
Emergency Services/Safety Sciences								
Fire protection and safety	142/88	33/25	133/84	23/17	120/85	29/22	105/62	21/15
Design/Aim								
Furniture and interior design	39/27	-/-	45/36	-/-	39/25	-/-	38/31	-/-
Total DF	338/218	107/87	342/240	97/77	301/216	107/90	302/190	93/71

Tab. 10.5 Graduation success rate of study programmes of the first degree - numbers of enrolled 2018/2019, graduates 2020/2021 and those continuing their studies of study programmes of the second degree at the Faculty of Science of the Faculty of Science of the University of Science and Higher Education of the University of Science and Higher Education of the Czech Republic

Department/programme	Enrolled to level I		Alumni		Enrolled to level II	
	2018/2019		2020/2021		2021/2022	
	D	E	D	E	D	E
Woodworking						
Timber and wood structures	39	10	20	2	19	1
Timber and wood structures/KDSN - Volyně	-	13	-	6	-	1
Wood processing	2	0	2	0	1	0
Creation and construction of furniture	7	10	3	2	3	2
Creation and construction of furniture -Fully		5		1		
Management of woodworking and furniture production	3	0	1	0	1 is on EMPDSP	0
Total Wood processing	51	38	26	11	24	4
Economics and Management						
Economics and Business Management DSP	51	16	19	10	16	9
Security Sciences						
Fire protection of persons and property	93	21	47	13	34	10
Art						
Furniture and interior design	28	-	20	-	11	-
Total DF	223	75	112	34	85	23

Out of 223 full-time students enrolled in the academic year 2018/2019 in the 1st cycle of studies at the faculty, 112 students successfully completed their studies, which is 50.2%, and 85 students enrolled in the 2nd cycle, which shows that approximately 76% of students who successfully completed the 1st cycle of studies continued their studies in the 2nd cycle.

In the external form of study, 34 out of 75 students enrolled in the academic year 2018/2019 in the first cycle of study at the faculty successfully completed their studies, which represents 45.3%.

III. SCIENTIFIC

RESEARCH AND ARTISTIC ACTIVITIES

III. 1. INTENTIONS AND PERFORMANCE 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 issues of 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 publishing 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 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 2021 there was a decrease in the number of creative staff, but at the same

time an improvement in the coefficient of the qualification structure. There has again been a positive shift in the number of staff funded exclusively from project sources. The number of projects in progress is stable, but the proportions are changing in favour of projects with more funding, which has been reflected in an increase in the total amount of funding received. The total research capacity of faculty staff has decreased, but the percentage utilisation has been higher. The total number of reported publications increased, particularly in the most important category of outputs (category B) there was a significant increase in the number of outputs, and at the same time there was an increase in the proportion of publications ranked in the top quartile of Q1. The increase in the proportion of faculty in artistic activity is positive. The total number of responses recorded increased in all categories monitored.

III. 2. SOLVING SCIENTIFIC RESEARCH PROJECTS

Research projects are an important element in the development of knowledge and the promotion of research in an academic environment. Organizational Directive No. 2/2020 on the management of projects supported by the Ministry of Education, Science, Research and Sport of the Slovak Republic and from other sources at the Technical University in Zvolen is in force at TUZVO, the purpose of which is to ensure a uniform procedure in the preparation, processing and implementation of projects in the conditions of TUZVO. An overview of the projects to be carried out at the DF in 2021 is given in Tables III-1 and III-2.

In the year 2021, the Faculty of Wood Sciences and Technology was involved in a total of 17 VEGA projects, of which 12 projects had a responsible investigator from the Faculty of Wood Sciences and Technology and 5 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 were included in the following committees:

- VEGA No. 6 for Civil Engineering 1 project,
- VEGA No. 8 for Agricultural, Veterinary and Wood Sciences 7 projects,
- VEGA No. 12 for Arts, Aesthetics and Linguistics 1 project,
- VEGA No. 13 for Economic and Legal Sciences 3 projects.

In the field of university pedagogy, a total of 7 KEGA projects were solved at the faculty in 2021, 3 in the position of responsible researchers, 2 in the position of responsible researchers for the co-investigating organisation. In another 2 KEGA projects, DF staff were members of the research team at other faculties and departments.

DF staff solved 11 projects of the APVV agency in the position of responsible researchers. Two projects were solved within the general call VV2016, 4 projects within the call VV2017, one project each within the calls VV2018 and VV2019 and 3 projects within the call VV2020. One project was funded under the Slovakia-Poland APVV bilateral call. In five projects, DF staff were members of the research team at another department.

From the development of the total number of funded projects it can be stated that the number of projects solved at the Faculty of Wood Sciences and Technology is stable. From a long-term perspective, the number of projects with lower allocation is decreasing and the number of projects with higher financial support is increasing.

Tab. III-1 Number of research projects in the years 2018-2021

Projects	r. 2018	r. 2019	r. 2020	r. 2021
VEGA	25	20	18	17
KEGA	14	12	9	7
APVV	11	12	12	17
MVTS	4	5	5	4
H2020	-	-	-	1
OP-SF	-	-	1	1
IPA TUZVO	1	2	3	3
Other	-	1	3	2
Together	55	52	51	52

Table III-2 gives an overview of the tasks to be solved at the DF in 2021 with the researcher capacities and allocated funds.

Tab. III-2 Overview of tasks to be solved at the Faculty of Science in 2021

Task number	Name of the task	Principal Investigator	Solving capacity in hours		Allocated funds in €	
			Educator. work.	Researcher/Do ctor.	Current expenditure	Capital expenditure
VEGA						
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.	3900	- 700	13 567	-
1/0387//18	Improving the fire protection properties of wood with new fire retardants	prof. RNDr. František Kačík, DrSc.	1700	-	13 788	-
1/0556//19	Extruded veneer-based wood materials and their application in products	doc. Ing. Jozef Gáborík, CSc.	4900	1000 1400	14 511	-
1/0666//19	Determining the development of a wood-based bioeconomy	doc. Ing. Ján Parobek, PhD.	4900	0 5500	7 954	-
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.	4500	0 6500	9 003	-
1/0717//19	Assessment of the environmental impacts of wood-based buildings as a whole in the whole life cycle process	doc. PaedDr. Ľuboš Krišťák, PhD.	3200	-	4 352	-
2/0106//19	Wooden Pipe Fund of Historical Organ Positives in Slovakia	Ing. Martin Čulík, PhD.	700	-	613	-
1/0397//20	Efficient use of woody biomass in terms of valuable chemical substances	Mgr. Viera Kučerová, PhD.	3300	0 2000	12 010	-
1/0454/20	Study of changes in fire-technical parameters of natural and synthetic polymeric materials by progressive analytical and forensic methods	Ing. Veronika Veľková, PhD.	3300	0 1000	13 050	-
1/0161/21	Dependence of the type of corporate culture on industries of Slovak enterprises and selected socio-demographic factors	doc. Ing. Silvia Lorincová, PhD.	1600	0 2000	3 931	-

1/0324/21	Analysis of the risks of changes in material composition and technological background on the quality of the working environment in small and medium woodworking companies	doc. Ing. Richard Kminiak, PhD.	2500	500 0	9 131	-
1/0714/21	Research on selected properties of sustainable insulation materials with potential for use in wood buildings	doc. Mgr. Miroslav Němec, PhD.	2500	-	8 482	-
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. Researcher from Faculty of Science: prof. Ing. Prof. Mariana Sedliačiková, PhD.	200	-	-	-
1/0450/19	Evaluation of hybrid poplars in terms of defence responses and wood cell wall composition under climate change	Principal investigator: prof. Dr. Mgr. Mgr. Jaroslav Ďurkovič., Faculty of Medicine, Faculty of Science. Vladimír Račko, PhD.	0	1000 -	-	-
1/0785/19	Construction and analysis of dynamic nonlinear models of macroeconomic processes	Research organization: the University of Medical University, Banská Bystrica, responsible researcher: prof. RNDr. Rudolf Zimka, PhD. Researcher from Faculty of Science: RNDr. Mgr. Mgr. Katarína Kyseľová, PhD.	500	-	-	-
1/0655/20	The concept of bioeconomy in the conditions of the forestry and forestry sector of the Slovak Republic	Principal investigator: Ing. Blanka Giertlová, PhD., LF TUZVO, Principal Investigator. Patrik Aláč, PhD.	500	-	-	-
1/0029/20	Microevolutionary mechanisms shaping the spatial genetic structure of forest tree populations	Principal investigator: prof. Ing. D. Gömöry, DrSc., Faculty of Medicine, Faculty of Science. Mgr. J. Schmidtová, PhD.	300	-	-	-

KEGA						
001TU Z-4/2020	Implementation of Progressive Technologies, Methods and Forms into Education in the Field of Study Security Sciences	Prof. RNDr. Danica Kačíková, MSc., PhD.	2550	0 500	10 057	-

005TU Z-4/2020	Economics, management and entrepreneurship in enterprises DSP-VS textbooks with support for visualization in virtual space	doc. Ing. Marek Potkány, PhD.	4800	500 300	10 109	-
001TU Z-4/2021	Postvirotic design (furniture and interior design)	doc. akad. sculptor. René Baďura	2100	0 300	7 346	-
026UMB-4/2021	Occupational safety demonstration laboratory for manual machinery in human-machine interaction	Solving organisation: the UMB Responsible researcher for DF: doc. Ing. Richard Kminiak, PhD.	1300	500 0	4 230	-
023ŽU-4/2021	Developing intellectual competence and manual skills in STEM education	Principal investigator: doc. Prof. Dr. Hockicko, University of Žilina Responsible researcher for DF: doc. Mgr. Mgr. Miroslav Němec, PhD.	2500	-	7 020	-
008TU Z-4/2019	Provision of a new study programme in forensic and criminal environmental science	Principal investigator: prof. Ing. Prof. Marián Schwarz, CSc., FEE TUZVO Solvers from Faculty : doc. Iveta Čabalová, Ing. Eva Výbohová	800	-	-	-
003TU Z-4/2020	Promoting university education in a world language through the fusion of vocational and linguistic content in non-philological faculties	Principal investigator: Mgr. Mgr. Jaroslava Štefková, PhD., ÚCJ TUZVO Solver from Faculty : doc. Prof. Majlingová, Ing. Prof. Majlingová, Ing. Ing. Špilák	800	-	-	-

APVV - research projects						
APVV-16-0177	Progressive modification of wood surfaces, film-forming agents and their interactions at the phase interface	prof. Ing. Jozef Kúdela, CSc.	2000	450 700	44 561	-
APVV-16-0326	New wood flame retardants based on natural compounds and nanoparticles	prof. RNDr. František Kačík, DrSc.	3300	-	37 867	-
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.	2900	1100 500	63 957	-
APVV-17-0583	Construction and decoration materials based on recycled and modified wood	prof. Ing. Ladislav Reinprecht, CSc.	7100	0 2200	61 671	-
APVV-17-0005	A systematic approach to the study of fire parameter changes using advanced analytical and forensic methods	prof. RNDr. Danica Kačíková, MSc., PhD.	8400	0 1400	63 035	-

APVV-17-0206	Ultra-low-energy green buildings based on the renewable raw material wood	prof. Ing. Jozef Štefko, CSc.	7300	-	68 925	-
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.	3800	1300 0	55 888	-
APVV-19-0269	Research on the preparation of environmentally stable wood bio-composites by innovative methods of targeted modification of polycondensation adhesives with natural polymers and additives	prof. Ing. Roman Réh, CSc.	5100	0 2500	57 310	-
APVV-20-004	The impact of the growth of anthropometric parameters of the Slovak population on the functional properties of furniture and business processes	prof. Ing. Miloš Hitka, PhD.	1750	-	35 029	
APVV-20-0159	Research on surface properties of wood and wood-based materials modified with CO ₂ laser radiation and low-temperature plasma"	doc. Ing. Ivan Kubovský, PhD.	2300	0 150	22 154	
AVV-20-0294	Assessment of the economic, social and environmental impacts of forest management in protected areas of the Slovak Republic on forestry and downstream industries	doc. Ing. Hubert Paluš, PhD.	1100	-	24 885	
APVV-17-0400	Strengthening the ethical environment in Slovakia (institutional practices, actors, risks, strategies)	Principal Investigator: doc. Ing. Helena Čierna, PhD. Researcher from DF: Mgr. Mgr. Jarmila Schmidtová, PhD.	300	-	-	-
APVV-19-0612	Modelling the impact of the risk of destructive natural hazards on the forestry - timber economic complex under conditions of continuing climate change	Principal Investigator: prof. Ing. Ján Holécy, CSc. Researchers from Faculty of Science: RNDr. Bakša, RNDr. Bakšová, Ing Aláč, doc. Ing. Kánová	1950	-	-	-
APVV-18-0520	Innovative methods of performance analysis of the forestry-logging complex using the principles of green growth	Principal Investigator: prof. Ing. Iveta Hajdúchová, PhD. Researchers from Faculty : prof. Mariana Sedliačková, , doc. Prof. Marek Potkány	700	-	-	-
APVV-19-0035	Simulation and Visualization Analysis Tool for Forestry Planning (SAVANT)	Principal Investigator: prof. Ing. Marek Fabrika, PhD. Researchers from Faculty of Science: RNDr. Andrej Jankech, RNDr. Ondrej Vacek, PhD.	800	-	-	-
APVV-20-0403	FMA analysis of potential signals suitable for adaptive control of nesting strategies for milling wood-based agglomerates	Principal Investigator: doc. Ing. Peter Koleda, PhD.	600	300 0	-	-

		Researchers from Faculty : prof. Dzurenda, doc. Kminiak, Ing Banski, PhD., Ing. Šustek, PhD.				
APVV - bilateral cooperation projects						
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	prof. Ing. Ivan Klement, CSc.	1000	- 300	244	-
International scientific and technical cooperation projects						
COST CA16229	European Network for Environmental Citizenship (ENEC) (European Network for Environmental Citizenship)	Ing. Vladislav Kaputa, PhD., Ing. Hana Máťová, PhD.	450	-	-	-
COST Action CA 18135	Fire in the Earth System: Science & Society	doc. Ing. Andrea Majlingová, PhD., MSc. prof. RNDr. Danica Kačíková, PhD., MSc.	-	-	-	-
COST CA18236	Multi-disciplinary Innovation for Social Change	Ing. Vladislav Kaputa, PhD. , doc. Ing. Erika Loučanová, PhD.	300	-	-	-
2019-CZ01-KA202-061229	The use of CNC technology in wood processing for the exchange of procedures and examples of good practice	doc. Ing. Richard Kminiak, PhD.	-	-	12 881	-
IPA projects - FOCCI						
IPA 3/21	Design and validation of a new method for detecting the effect of weathering of flame accelerants on their identification in fire detection	Ing. Marek Hodálik	300	0 500	935	-
IPA 4/21	Application of a new progressive method of flame propagation on the surface of lignocellulosic materials	Ing. Elena Kmet'ova	300	0 500	946	-
IPA 11/21	Analysis of socio-economic factors influencing the demand for mechanical woodworking products	Ing. Marek Hlodák	100	0 400	933	-
Other research and other projects						
WOODMAT	Structure and properties of lignocellulosic materials APVV project of the LPP programme	Head: prof. RNDr. František Kačík, DrSc.	-	-	30 130	-

UNIVNET	University and industry research and education platform for a recycling society	Principal investigator for TUZVO: Dr. h. c. prof. Ing. Prof. Rudolf Kropil, PhD. Doc. Iveta Čabalová, doc. Prof. Iveta Chabalová, Prof. Marek Potkány,	388	-	6 056	2 152
SEMOD-76-2/2019	KOCHHRAN - Research on wood composites for increasing the level of protection of soldiers	prof. Ing. Roman Réh, CSc.			2 088	
NFP313010 Q879	FDAAS - Automated Fire Danger Assessment System	doc. Ing. Andrea Majlingová, MSc, PhD.	-	-	38 126	-
GA ID: 101037247	SILVANUS - Integrated Technological and Information Platform for wildfire Management	doc. Ing. Andrea Majlingová, MSc, PhD.	-	-	60 000	-
	Subsidy from the Ministry of Education and Science for the organisation of the School of Education and Science	doc. Ing. Iveta Čabalová, PhD.			9 350	

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

Workplace	Qualifications								Total	CSc., PhD.
	Teaching staff					Researchers (R&D)				
	Prof.	Doc.	OA with PhD.	OA without PhD.	THP	VV with PhD.	VV work. without PhD.	VV work. SŠ		
KDT	3	0	3	0	4	0	0	0	10	6
KMDG	0	0	8	0	0,4	0	0	0	8,4	8
KND	1	3	0	0	1,6	1,8+1*	0	0	7,4+1*	5,8+1*
KFEAM	0	4	2	0	0,4+1*	0	0	0	6,4+1*	6
KNDV	1	2	3	0	1	1	0	0	8	7
KEMP	2	4	7	0	1	0,9	0	0	14,9	13,9
KMOSL	1	3	3,6	1	1	0	0	0	9,6	7,6
KCHCHT	1	1	3	0	4,6	0	0	0	9,6	5
CODE	2	1	1	0	0	1+1*	0	1	6+1*	5+1*
KPO	1	3	6,5	0	3	1+1*	0	0	13,5+1*	10,5+1*
KDS	1	1	4	0	1	0	0	0	7	6
KDNI	0	4	7	0,9	2	0	1	0	14,9	11
DDF	0	0	0	0	5	0	0	0	5	0
Total 2021	13	26	48,1	1,9	25+1*	4,7+3*	1	1	120,7+4*	91,8+3*
Total 2020	11	28,75	52,2	2,25	28	7,7	1	1	131,9	99,65
Total 2019	11	28,75	49,2	3,75	27	5,95	1,5	1	128,15	94,9
Total 2018	11	27,75	50,40	3,5	29	6,8	1*	1	130,45	99,45

Tab. III-3 Structure of staff by individual workplaces as of 31.12.2021

Note: * - project-funded staff

The number of FTEs in the DF decreased year-on-year (-7.2 FTEs). The decrease was mainly due to retirements. There was a decrease in the number of staff in the positions of Associate Professors, OA with and without PhD, and THP positions. The increase in the number of full-time positions occurred only in the position of professor. The changes made had a positive impact on the qualification structure of the faculty staff (Table III-3a).

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

Year	2018	2019	2020	2021
Qualification structure factor DF	1,4884	1,5070	1,5149	1,5629

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

In 2021, the research capacity of the DF staff by qualification structure was 106 400 h (see Table III-4), of which teaching staff had a capacity of 89 200 h and research staff 17 400 h. A further 38 000 h were PhD students. Thus, in total, the Faculty of Science had a research

capacity of 144 400 h (151 600 h in 2020). The decrease in research capacity is due to changes in the structure of the staff.

Tab. III-4 Scientific research capacity according to the qualification structure of DF staff as of 31.12.2020

Category	DrSc.	CSc./PhD.	Without scientific ranks	Total	VV-capacity h.
<i>Teaching staff</i>					
Professors	1	12	-	13	13 000
Associate Professors	0	25	1	26	26 000
Professional assistants	0	48,1	1,9	50	50 000
Total				89	89 000
<i>Research staff</i>					
Research staff	0	4,7+3*	1	8,7	17 400
Total				8,7	17 400
<i>PhD students</i>					
Internal PhD students	0	-	19	Total	38 000

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 2021 and is presented in Table 1. III-5.

Tab. III-5 Utilization of the scientific research capacity of the Faculty of Science in 2021

Workplace	Solving capacity in hours							
	VEGA and KEGA		APVV		International projects. + other		Total	
	pedagogical workers	research workers	pedagogical workers	research workers	pedagogical work	research workers	pedagogical workers	research workers
DF	50 250	2 500	46 050	2 850	1 838	0	98 138	5 350
LF	800	1 000	3 450	0	0	0	4 250	1 000
FEE	800	0	0	0	0	0	800	0
FT	0	0	900	300	0	0	900	300
ÚCJ	800	0	0	0	0	0	800	0
Other universities	700	0	0	0	0	0	700	0
Total	53 350	3 500	50 400	3 150	1 838	0	105 588	6 650
PhD students	0	20 200	0	7 750	0	1 400	0	29 350
Total	53 350	23 700	50 400	10 900	1 838	1 400	105 588	36 000
Total 2021	77 050		61 300		3 238		141 588	
share	54,4%		43,3%		2,3%		100%	
Total 2020	68 785		53 400		9 902		132 087	
Total 2019	87 220		53 000		6 900		147 209	
Total 2018	123 580		42 968		1 260		167 808	

The sum of the hours reported for project solutions in 2021 was 141 588 h, representing a 98.1% utilisation of theoretical capacity (87.1% in 2020). The largest share of the research capacity was again used for APVV projects 43.3% (40.4% in 2020) followed by VEGA projects 42.5% (38.4% in 2020) and KEGA 12.0% (13.6% in 2020). In the area of international and other projects, there was a significant year-on-year decrease in the share of faculty staff research capacity utilisation (2.3% vs. 7.5% in 2020).

For teaching staff of the faculty, the average reported capacity is 1 186 h/staff (118.6% of the theoretical capacity compared to 105.1% in 2020) and for PhD students 1 545 h/doctoral student (77.3% of the theoretical capacity compared to 55.7% in 2020). For researchers, there was a decrease to 1 167 h/staff (58.4% of the theoretical capacity against 62.1% in 2020).

III. 2.2 FINANCIAL SUPPORT FOR DF RESEARCH

A recapitulation of the funds allocated and used for the scientific research activities of the DF in 2021 is presented in Tables III-6, III-7 and III-8.

Tab. III-6 Allocation of funds for VEGA projects by department in 2021

Department	Project number		Principal Investigator	Allocated funds	Number of projects in the department	Total allocation per department
	TUZVO	MŠVVaŠ SR		Common		Common
KDT	V-18-007-00	1/0729/18	prof. Reinprecht	13 567	1	13 567
KCHCHT	V-18-008-00	1/0387/18	prof. Kačík	13 788	2	25 798
	V-20-009-00	1/0397/20	Mgr. Kučerová	12 010		
KMOSL	V-19-007-00	1/0674/19	doc. Loučanová	9 003	2	16 957
	V-19-008-00	1/0666/19	doc. Parobek	7 954		
KDS	V-19-009-00	2/0106/19	doc. Čulík	613	1	613
KNDV	V-19-006-00	1/0556/19	doc. Gáborík	14 511	1	14 511
KFEAM	V-19-005-00	1/0717/19	doc. Krišťák	4 352	2	12 834
	V-21-007-00	1/0714/21	doc. Němec	8 482		
KPO	V-20-010-00	1/0454/20	Ing. Veľková	13 050	1	13 050
KEMP	V-21-009-00	1/0161/21	doc. Lorincová	3 931	1	3 931
CODE	V-21-008-00	1/0714/21	doc. Kminiak	9 131	1	9 131
Total 2021				110 392	12	110 392
Total 2020				112 814	11	112 814
Total 2019				127 589	14	127 589
Total 2018				135 913	17	135 913

In 2021, the number of VEGA projects in the position of the responsible researcher increased to 12 (year-on-year increase by 1). In terms of funds allocated, there was a

year-on-year decrease of € 2 422 (-2.2%). The average amount of funds allocated per project was € 9 199 (in 2020 it was € 10 256/project). No funds were allocated by the Agency for capital expenditure.

In the framework of the call for proposals published by VEGA in 2021, 12 projects were submitted to the Faculty of Science in the position of the responsible investigator.

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 2021

Department	Project number		Principal Investigator	Allocated funds	Number of projects in the department	Total allocation per department
	TUZVO	MŠVVaŠ SR		Common		Common
KPO	K-20-001-00	001TUZ-4/2020	prof. Kačíková	10 057	1	10 057
KEMP	K-20-002-00	005TUZ-4/2020	doc. Potkany	10 109	1	10 109
CODE	K-21-003-00	026UMB-4/2021	doc. Kminiak	4 230	1	4 230
KFEAM	K-21-002-00	023ŽU-4/2021	doc. Němec	7 020	1	7 020
KDNI	K-21-004-00	001TUZ-4/2021	doc. Baďura	7 346	1	7 346
Total 2021				38 762	5	38 762
Total 2020				34 842	5	34 842
Total 2019				44 191	8	44 191
Total 2018				39 026	9	39 026

In 2021, 5 KEGA projects were solved at the Faculty of Science in the position of responsible researcher or responsible researcher for a co-investigator organisation. The total amount of funds allocated increased year-on-year by € 3 920 (+11.3%). On average, € 7 752 (€ 6 958/project in 2020) was allocated per project in 2021. As in previous years, no capital funds were allocated.

Within the call published in 2021, 3 KEGA projects were submitted to the Faculty of Science in the position of the responsible researcher.

Table III-8 shows the distribution of the funding allocated to the APVV projects in 2021.

Tab. III-8 Allocation of funds for APVV projects in 2021

Department	Project number		Principal Investigator	Allocated funds	Number of projects in the department	Total allocation per department
	TUZVO	MŠVVaŠ SR		Common		Common
KND	APVV-16-0177	06K1168	prof. Kúdela	44 561	1	44 561
KCHCHT	APVV-16-0326	06K1165	prof. Kačík	37 867	1	37 867
CODE	APVV-17-0456	06K1174	prof. Dzurenda	63 957	1	63 957
KDT	APVV-17-0583	06K1171	prof. Reinprecht	61 671	3	119 225
	APVV-19-0269	06K1190	prof. Réh	57 310		

	SK-PL-18-0052	06K1176	prof. Clement	244		
KNDV	APVV-18-0378	06K1179	prof. Sedliačik	55 888	1	55 888
KPO	APVV-17-0005	06K1173	prof. Kačíková	63 035	1	63 035
KDS	APVV-17-0206	06K1175	prof. Štefko	68 925	1	68 925
KEMP	APVV-20-0004	06K1191	prof. Hitka	35 029	1	35 029
KFEAM	APVV-20-0159	06K1194	doc. Kubovský	22 154	1	22 154
KMOSL	APVV-20-0294	06K1195	doc. Paluš	24 885	1	24 885
Total 2021				535 526	12	535 526
Total 2020				461 510	9	461 510
Total 2019				487 183	12	487 183
Total 2018				355 623	10	355 623

In 2021, 11 scientific research projects and one bilateral APVV project were solved by the staff of the Faculty of Science. In terms of allocated funds, there was a year-on-year increase of 74 016 € (+16.0%). On average, 48 662 € were allocated to one APVV scientific research project (57 689 €/project in 2020).

In 2021, 5 projects were submitted under the public call VV2021 and two more bilateral cooperation projects (SK-CN, SK-PL).

Last year, the PhD students of the faculty received three funded grants from the internal project agency IPA at TU Zvolen (Table III-9) in the total amount of 2 814 €.

Tab. III-9 Allocation of funds for IPA HERE projects in 2021

Department	Project number	Principal Investigator	Retrieved from funds in €	Number of projects	Allocated funds per department total in €
			Common		Common
KPO	3/2021	Ing. Kmet'ová	946	2	1 881
	4/2021	Ing. Hodálik	935		
KMOSL	11/2021	Ing. Hlodák	933	1	933
TOTAL				3	2 814

Table III-10 summarises the evolution of the amount of funding allocated to all projects in the DF in 2018-2021.

The overview shows a year-on-year increase in the volume of funds obtained by the faculty for all types of projects, except for VEGA projects, where there was a slight decrease. The most significant increase in funding occurred in APVV and MVTs projects. The top team "WoodMat" was, as in previous years, supported by a direct subsidy from the Ministry of Education and Science in the increased amount of 30 130 €. A subsidy of € 9 350 was also provided by the Ministry of Education and Science for the organisation of the SVOČ at the Faculty of Science.

The total year-on-year increase in funding received for all projects and tasks is € 95 232 (+13.2%).

Tab. III-10 Evolution of the volume of funds allocated to all projects in 2018-2021 in €

Projects	r. 2018	r. 2019	r. 2020	r. 2021
VEGA	135 913	127 586	112 814	110 392
KEGA	39 026	44 191	34 842	38 762

APVV	355 623	487 183	461 510	535 526
MVTS	0	18 016	2 272	21 089
7. RP	0	0	0	0
IPA TUZVO	900	1 895	2 767	2 814
Other	0	31 297	84 710	109 564
Top team "WoodMat"	24 000	24 000	24 000	30 130
Total	555 462	734 168	722 915	818 147

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 in 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 journals of the Current Contents Connect (CCC) database maintained by Web of Science in journals ranked by the JCR in quartiles Q1 and Q2, and excellent or major artistic outputs. 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 publications in CCC database journals or major artistic outputs. The call and the application form are available on the [HERE](https://df.tuzvo.sk/sk/narodne-projekty) website (<https://df.tuzvo.sk/sk/narodne-projekty>).

In 2021, 28 applications for co-funding of publications included in the CCC database were supported by the DF management. The evolution of the number of supported publications and the amount of funds used is shown in Table 1. III-11.

Tab. III-11 Number of creative outputs supported by IPA DF and total amount of support

Year	Number of publications	Amount (EUR)
2021	28	16 041
2020	24	14 220
2019	20	12 578
2018	21	8 102

III. 3. PUBLISHING AND ARTISTIC ACTIVITIES

III. 3.1 PUBLICATIONS

Collection, categorization, registration and archiving of publication activities of teaching and scientific staff was carried out in 2021 in accordance with the Decree of the

Ministry of Education and Science of the Slovak Republic No. 456/2012 and the internal Organizational Directive of the Technical University in Zvolen No. 7/2013. From 1.2.2022 a new decree (No. 397/2020 Coll.) came into force, which fundamentally changes the categorization of outputs and responses.

Category groups A1, A2, B 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, A1, A2, D and X (in descending order).

In Tab. III-12 is the publication activity evaluated by individual departments of the faculty according to the SLDK records.

Tab. III-12 Overview of publication activity by DF departments for the year 2021

Code	Publication category	KDT	KMDG	KND	KFEAM	KNDV	KCHCHT	KDNI	KDS	CODE	KEMP	KMOSL	KPO	Σ DF 2021	Σ DF 2020	Σ DF 2019	Σ DF 2018
A1	AAA, AAB, ABA, ABB, ABC, ABD	-	2	1	-	-	1	-	1	2	2	1	2	9	10	10	12
A2	ACA, ACB, BAA, BAB, BCB, BCI, EAI, CAA, CAB, EAJ, FAI	2	1	-	3	-	2	3	2	-	8	-	9	28	17	21	47
B	ADC, ADD, BDC, BDD, CDC, CDD, ADM, ADN, BDM, BDN	26	8	8	25	12	17	2	9	11	34	7	15	129	99	97	100
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	7	2	5	-	6	4	20	6	6	22	49	32	152	133	179	313
Patents	AGJ	-	-	-	-	-	-	13	1	2	-	-	5	21	13	12	21
X	Uncategorized	2	-	3	1	-	-	1	-	1	1	3	1	12	10	21	20
Total		37	13	17	29	18	24	39	19	22	67	60	64	351	282	340	511

Note : Group A1Book publications in the nature of scientific monographs.
Group A2Other book publications.
Group BP publications in peer-reviewed journals or registered in WoS and Scopus.
The group DO substantial publications.
Patents Patents, copyright certificates and discoveries.
Group X Uncategorized.

In summary, there is a clear year-on-year increase in the number of reported publications of about 24.5%. The significant increase in the number of reported outputs in category B (papers in peer-reviewed journals or registered in WoS and Scopus), where the number of outputs increased by 30.3% year-on-year (by 30 items), can be assessed as a very positive development. There is also a positive trend in the selection of journals for publication from the WoS database, where the share of outputs in quartile Q1 has increased from 19.2% in 2020 to 40.3% in 2021. These outputs are also very significant from the accreditation point of view, as they declare the top international quality of the research being carried out. The financial contribution of the

database publications depends on their classification in quartiles according to the JCR Scientometric Database (WoS). Database outputs that are not assigned a quartile in the JCR are classified in quartile Q4 according to the methodology for the distribution of grants.

For comparison, a paper from a domestic peer-reviewed scientific conference (AFD, paper at a domestic scientific conference, category D) is worth €64 in the grant system and an article in WoS Q1 (ADC, category B) is worth €14,629 (for the year 2021).

In Tab. III-12a and III-12b is an overview of the number of reported publication outputs in journals registered in the WoS 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 WoS and Scopus databases by quartile

Reporting year	Q1	Q2	Q3	Q4	Together
2021*	52	28	8	41	129
2020	19	28	6	46	99
2019	8	35	14	40	97
2018	12	32	12	44	100

Note *Publication ranking for 2021 is according to the quartile assigned for 2020

Tab. III-12b Structure of reported outputs in the AGJ category

Reporting year	patents	benefit. Designs	designs	protection stamps	Together
2021	2	4	15	0	21
2020	0	0	13	0	13
2019	1	1	10	0	12
2018	1	5	15	0	21

Tab. III-13 Overview of responses by DF departments registered in 2021

Code	Category of responses and i.	KDT	KMDG	KND	KFEAM	KNDV	KDS	KCHCHT	KDNI	CODE	KEMP	KMOSL	KPO	Σ DF 2021	Σ DF 2020	Σ DF 2019	Σ DF 2018
1	Citations in foreign publications registered in Web of Science and SCOPUS citation indexes	258	57	152	303	127	26	296	5	87	344	115	140	1343	1210	905	779
2	Citations in domestic publications registered in Web of Science and SCOPUS citation indexes	26	4	33	15	17	2	32	-	42	18	17	16	170	158	123	146
3	Citations in international publ. not. in citation indexes	68	14	15	58	22	4	16	1	16	150	51	9	324	200	138	156
4	In-house citations. publ. no. in citation indexes	11	5	6	5	5	-	15	4	21	14	29	12	107	99	147	371
5	Reviews in foreign publications	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0
6	Reviews in domestic publications	-	-	-	-	-	-	-	7	-	-	-	-	7	0	0	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	0
Total in 2021		363	80	206	381	171	32	359	17	166	526	212	177	1951			
r. 2020		286	68	150	200	155	28	302	16	135	421	173	201	1667			
r. 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			

In Tab. III-13 is a detailed overview of the number of citations and responses registered in 2021, divided into individual departments of the faculty, as prepared from the SLDK data. The year-on-year increase in the total number of registered citations (+17.0%) is noticeable, it is possible to evaluate positively especially the increase in citations in the category of references 1 - foreign citations registered in WoS and Scopus (+11.0%), which are necessary in the accreditation process and declare the international impact of the impact of the published outputs.

Searching and registering citations and references, especially from the Web of Science and Scopus databases, needs continued attention. Publication citations play a particularly important role in the accreditation process.

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. As in the case of publication activity, artistic activity is also registered according to the new Decree (No. 397/2020 Coll.) as of 1 February 2022.

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) 2018-2021

Total in the group				Group Z - Major works of art and performances				
2018	2019	2020	2021	ZZV	ZXX			
4	4	12	3	1	2			
				Group Y - Minor works of art and performances				
				YZV	YYV	YXV	YVV	
7	18	16	15	5	2	7	1	
				Group X - Other works of art and performances				
				XXV				
7	21	8	6	6				

In 2021, there has been a decline in the total number of reported artistic outputs, most notably in the most valuable category Z (major works of art).

The development of the share of the reported artistic activity of the Faculty of the HERE in national conditions had a long-term declining character, which was reversed last year (Table III-14a). For the calculation of the share of artistic production for 2021, the outputs recorded in 2018 and 2019 are assessed.

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

Year	2018	2019	2020	2021
Share (%)	0,538	0,332	0,245	0,502

III. 3.3 SCIENTIFIC JOURNAL ACTA FACULTATIS XYLOLOGIAE ZVOLEN

The journal **Acta Facultatis Xylologiae 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-xylologiae-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.**

In 2021, two issues of Acta Facultatis Xylologiae Zvolen were published (Vol. 63, No. 1/2021 and Vol. 63, No. 2/2021), 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>.

III. 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 events hosted in 2021 by department can be found in Tables III-15 and III-16.

Tab. III-15 Scientific and professional events in 2021

Department	Name	type	Participation	Deadline
	sponsor		Total/incl.	Place

DF	61st Student Scientific and Professional Activities doc. Ing. Iveta Čabalová, PhD.	con	53/15	25.5.2021 Online
	Science around wood, design around science prof. Ing. Ján Sedliačik, PhD.	se	12/0	11.11.2021 TU Zvolen Online
KND	Interaction of wood with different forms of energy doc. Ing. Miroslava Mamoňová, PhD.	lec	1/0	20.4.2021 TU Zvolen Online
KMDG	Geometry and its principles in nature as inspiration for design Ing. Denisa Lizoňová, ArtD.	wo	10/0	25.1. - 26.1.2021 TU Zvolen
KDS	Sustainable architecture prof. Ing. Jozef Štefko, CSc.	con	87/0	30.11.2021 Online
KMOSL	16th European Science Café of ENEC Cost Action 16229 Doc. Ing. Hubert Paluš, PhD. Ing. Vladislav Kaputa, PhD.	se	31/11	24.9.2021 Sekierska dolina, Zvolen
KDNI	Creativity in design / again together doc. Akad. sculptor. René Baďura Mgr. Elena Farkašová, PhD.	con	166/16	11.11.2021 TU Zvolen Online
	Professor Jindřich Halabala Prize 2021 doc. Akad. sculptor. René Baďura Mgr. Lucia Spišiaková Kružlicová, ArtD. Ing. Miroslav Chovan, ArtD. Mgr. Elena Farkašová, ArtD.	competition	52/19	11.11.2021 TU Zvolen Online
KPO	Advances in Fire & Safety Engineering 2021 doc. Ing. Martin Zachar, PhD.	con	162/10	21.10.2021 TU Zvolen Online
	14th International Conference "Material - Acoustics - Place 2021" doc. RNDr. Anna Danihelová, PhD. doc. Ing. Martin Čulík, PhD.	con	18/0	24.9.2021 Online

Note: con-conference, se-seminar, ex-exhibition, col-colloquium, wo-workshop, lec-lecture

Tab. III-16 Other events organised at the DF in 2021

Department	Name	type	Participation	Deadline
	(guarantor)		Total/incl.	
DDF	Open Day Ing. Adrián Banský, PhD.	pr	100/0	28.01.2020 TU Zvolen
KPO	Children's Firefighting University 2020 prof. RNDr. Danica Kačíková, MSc., PhD.	pr	50/1	10.12. a 17.12.2020 IX. ZŠ Zvolen

Note: pr-presentation

III. 5. STUDENT SCIENTIFIC, PROFESSIONAL AND ARTISTIC ACTIVITIES

III. 5.1 STUDENT SCIENTIFIC AND PROFESSIONAL ACTIVITIES

Conference 61. The 61st Annual Conference of Student Scientific and Professional Activities at the Faculty of Wood Sciences and Technology, Technical University in Zvolen was held online and took place on 25 May 2021 in the announced 6 categories. More than 100 participants from students and teachers showed interest in the student conference. The works

were subsidized with financial prizes - for the 1st place 200 €, for the 2nd place 150 € and for the 3rd place 100 €. The SHSC was supported by a subsidy from the Ministry of Education and Science in the amount of 9 350 €.

A total of 53 papers were submitted to the 6 sections (15 of them from abroad):

Technological-technical section: 10 papers, 3 from TU Zvolen, 6 from SGGW Warsaw, Poland;

1 from Kalashnikov ISTU, Russia.

Section of Economics, Management and Entrepreneurship: 6 papers, 3 from TU Zvolen, 1 from UMB Banská Bystrica, 1 from STU MTF Trnava, 1 from Collegium Da Vinci in Poznan, Poland.

Section of Marketing, Business and Innovation Management: 15 papers, 10 from TU Zvolen, 1 paper from UMB Banská Bystrica, 1 paper from ČZU Praha, Czech Republic; 1 paper from ČVUT Praha, Czech Republic; 2 papers from Collegium Da Vinci in Poznan, Poland.

Security Sciences Section: 8 papers, 6 from TU Zvolen, Slovakia; 1 from University of Žilina; and 1 paper from UPS Budapest, Hungary.

Art and design section: 5 works, 5 from TU Zvolen.

Doctoral section: 9 papers, 6 from TU Zvolen, 1 from UMB Banská Bystrica, 1 from SGGW Warsaw, Poland; 1 from ČZU Prague, Czech Republic.

The 61st International Conference of Student Scientific and Professional Activities published the abstracts of the 61st International Conference of Student Scientific and Professional Activities in electronic form, ISBN 978-80-228-3268-7

III. 5.2 STUDENT COMPETITION "PROFESSOR JINDŘICH HALABALA PRIZE 2021"

The Professor Jindřich Halabala Prize 2021 was held in accordance with the Statute of the competition under the auspices of the Dean of the Faculty of Wood Engineering of the Technical University in Zvolen, prof. Ing. Ján Sedliačik, PhD. The expert guarantor of the event was the Department of Furniture and Interior Design (KDNI DF).

The Professor Halabala Prize is awarded for the best student project in the field of furniture and interior design, which was created in the academic year 2020/2021 as part of a studio production. The international student competition for the Professor Halabala Prize is open to students from universities from different European Union countries, studying in the design fields of study focused on furniture and interior design.

Even though the 2020/2021 academic year was taught by distance learning in most schools, 52 students participated in the current edition of the competition with 60 entries. Entries from 6 universities and colleges involved in design were represented.

Due to the pandemic in 2021, the official announcement of the results (evaluation of the 17th year of the competition) took place online via MS Teams after the discussion of the online international scientific conference - Creativity in Design / againtogether (5th year).

The awarded student projects were part of an exhibition for the public at the National Gallery of Art - Zvolen Castle, Zvolen (11 November - 03 December 2021).

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 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 faculty activities, placement 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 in 2021, 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 2021 is related to the development of the university environment, the ongoing COVID-19 pandemic, 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. MOBILITY OF STUDENTS AND TEACHERS

Cooperation between the faculty 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, based on overlapping fields of study. The number of inter-institutional cooperation agreements is steadily increasing thanks to the expansion of contacts and international cooperation at the individual departments of the faculty as well as at the University. Among the most important partners of the DF are 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 Sciences, Materials Sciences
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 Sciences
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 Sciences
National University of Public Service Budapest	HU	Security Sciences
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 Sciences
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	The chemistry of wood

Cardiff Metropolitan University	UK	Art and Design
University of Applied Sciences Burgenland	AT	Economics and Management

Cooperation between the faculty and foreign partners in the field of student and teacher mobility is implemented on the basis of implementing agreements and cooperation programmes. Under the new ERASMUS+ 2021-2027 programme, approximately 40 bilateral agreements are available for student and teacher mobility at the faculty, based on overlapping fields of study. Thanks to the expansion of contacts and international cooperation at the individual departments of the DF as well as the University, the number of inter-institutional cooperation agreements is steadily increasing. Among the most important partners of the DF are the following universities.

Foreign university	State	Area of cooperation
Salzburg University of Applied Sciences (FHS)	A	Design
University of Forestry, Sofia	EN	Wood Industry, 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 Sciences, Materials Sciences
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 Sciences
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 Sciences
National University of Public Service Budapest	HU	Security Sciences
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 Sciences
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	The chemistry of wood
Cardiff Metropolitan University	UK	Art and Design
University of applied Sciences Burgenland	AT	Economics and Management

In the academic year 2020/2021, only 6 persons from abroad were recruited at the Faculty of Wood Sciences and Technology at TUZVO within the framework of foreign relations, and 29 employees of the Faculty of Wood Sciences and Technology were sent abroad. We have documented 52 foreign participants in the online events organized by the DF online departments. **In 2021, staff mobility as well as international activities were significantly negatively affected by the epidemiological situation related to COVID-19.** A breakdown of recruited and seconded staff and events by focus is provided in the tabular appendix in Tables IV-1 through IV-3.

In cooperation with the External Relations Department of the Rector's Office of the TU, information on the possibilities of international mobility as well as on how to implement them during the pandemic was regularly sent out electronically to TU students and employees in 2021. Study abroad opportunities within the EU and non-EU countries and the current calls of mobility agencies, aimed at studies, internships, 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, while students and employees are also informed in bulk via emails, the social network of the DDF and through the university information system. Increased efforts to inform students and employees about ERASMUS mobility and work placement opportunities are reflected in the ever-increasing interest of both students and employees in such placements.

In 2021, **4** teachers completed teacher mobility and **5 staff** completed training. A number of planned mobilities and foreign trips were cancelled due to changing TUZVO guidelines for domestic and foreign missions, as well as the recruitment of persons from abroad due to measures linked to the development of the epidemiological situation. For the same reason, there were no student mobilities at DF in 2021. An overview of ERASMUS+ mobilities is given in the Tabular Annex in Tables IV-4 to IV-6. In these tables, the Erasmus+ mobilities are also broken down by type of action and Erasmus+ call year from which the funding for the mobilities was drawn. DF staff had the possibility to replace the planned mobilities with virtual ones in 2021.

In the current academic year, 75 students of nationalities other than Slovak are studying at The Faculty of Wood Sciences and Technology. Most of them are from the Czech Republic, **7 students from Ukraine** and **1 student from the Russian Federation** 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, whether through the Erasmus+ programme or other forms of scholarships. **Moreover, this situation has been unexpectedly affected by 2 years of the COVID-19 pandemic.** It is important to focus on the promotion of the opportunities to study at DF at partner universities. A tool is the use of seconded students to provide targeted information on study opportunities and the presentation of the DF. Students are provided with promotional materials and information brochures in AJ in print and digital formats and have been asked to inform, promote and provide information on the possibility of studying at DF. It is also important to continuously identify new potential partners and educational institutions

that are focused on related fields of study and programmes to those currently accredited at the DF.

New presentation materials in English have been created for promotion purposes. In 2021, a new DF brochure was created, which is intended for the professional public and can largely serve as marketing material for the promotion of the DF abroad or for the communication of DF employees with the practice. The brochure is available for use in the individual domestic and international activities of the DF departments at the DF Dean's Office as well as at the External Relations Office of the HERE on request.

The vision for the coming 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 TU Zvolen. The Faculty of Wood Sciences and Technology is actively interested in expanding academic cooperation also 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:

- In 2021, it was the unfavourable epidemiological situation in the world and in Slovakia that prevented a number of planned activities and affected student mobility the most.
- 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 the promotion and support of 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.

Due to the epidemiological situation and the resulting measures, it was not possible to use the allocated funds for Erasmus + mobility, primarily project 2019-1-SKO1-K103-07753. **Until 31.5.2022 it is possible to draw for the faculties from the remaining budget approximately 240 thousand Euros.**

NEW ERASMUS+ 2021-2027

ERASMUS+ priorities for 2021-2027:

Inclusion and diversity

- a European strategy for inclusion is being prepared
- national and institutional arrangements
- more diversified groups, more diversified approaches

Digital transformation

- European student card
- virtual/mixed mobility
- Strengthening the readiness of HEIs for transformation
- Strengthening/acquiring digital skills

Environment and the fight against climate change

- emissions reduction (travel, events, awareness)
- HE driving transformation (sustainable development, link with digitalisation)

Participation in democratic life

The new Erasmus+ 2021-2027 phase has created new forms of mobility.

- In addition to physical mobility, online mobility or mixed mobility (as a combination of virtual and physical mobility) will also be considered standard.
- Intensive mixed BIP programmes have been added (formerly IP - intensive programmes). Thus, it will be possible to run summer schools or intensive workshops that include virtual activities.
- In addition to long-term mobility (study and internship of 2 to 12 months), short-term mobility (5 to 30 days) is also specifically designed for PhD students.

KA131 Doctoral mobility

As a new type of student mobility, the new short-term mobility of PhD students will help to better connect the world of (higher) education with the world of research and innovation.

Erasmus KA131 Doctoral Mobility focuses on education and training.

In order to enhance skills development, the new Erasmus+ programme will provide PhD candidates with more opportunities for mobility, including short-term stays abroad, in addition to long-term mobility (studies, internships).

The management of TUZVO, following the new possibilities of the Erasmus+ programme, in resolution 5.7.1 approved the introduction of a new elective course **Foreign Mobility of Doctoral Students (ZMD)**.

Based on the opportunity offered by the Erasmus+ programme in its new programming phase, the Erasmus+ short-term PhD studentship has been included as part of the PhD students' study programme and students will be awarded 5 ECTS for completing it as a compulsory course. The mobility/subject will be included in the doctoral student's individual plan. It can be enrolled once per semester and applies to mobility programmes and schemes such as: **Erasmus+, CEEPUS, NRS SR, COST, DAAD and others. The course will be optional in the first phase until accreditation and compulsory once the curricula are aligned.**

The mobility will thus be fully recognised and the HERE will fulfil the main requirement to which it committed itself when applying for the new Erasmus+ University Charter. TUZVO will thus at the same time fulfil its objectives in the framework of internationalisation and quality enhancement of higher education.

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 pedagogical activities, participation in research tasks and visibility of results. An **updated list of contracts in force as of 2021, for which the DF staff is responsible, is given in the tabular annex IV 12.**

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

Foreign cooperation of the faculty is realized based on 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 relationships and contacts at the level of departments and employees of the faculty. The Faculty of Wood Sciences and Technology cooperates with institutions in 24 countries at the level of departments and staff.

IV. 3.2. DETACHED OFFICE IN VOLYNĚ

In the academic year 2020/2021, **47** students studied at the detached workplace of the Faculty of Wood Sciences and Technology of the Technical University in Volyn, Czech Republic, in the accredited four-year study programme "**Wooden Structures**" and **18 students studied** in the accredited four-year study programme "**Furniture Design and Construction**".

Learners in the academic year 2021/2022: "**Wooden Construction**" **43** students, "**Furniture Design and Construction**" **20** students.

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	President	Observer	reviewer of papers	Member of the Programme Committee	Member of the Supervisory Board	Chairman
EAA - European Acoustical Association	2	-	-	-	-	-	-	-
EPS - European Physical Society	1	-	-	-	-	-	-	-
TC RBA - Technical Committee on Room and Building Acoustics	2	-	-	-	-	-	-	-

SPBI - Association of Fire Safety Engineering	4	-	-	-	-	-	-	-
Society of Paper and Pulp Industry	1	-	-	-	-	-	-	-
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	10	2	1	-	-	-	1	-
Management Committee COST Action CA16229	4	-	-	-	-	-	-	-
PEFC Chain of Custody Working Group, PEFC International, Geneva, Switzerland	-	-	-	1	-	-	-	-
IAWS - International Academy of Wood Science	1	-	-	-	-	-	-	-
Trade Union Commission Faculty of Forestry and Wood Technology, Mendel University in Brno	6	-	-	-	-	-	-	1
SWST - Society of Wood Sciences and Technology	1	-	-	-	-	-	-	-
CSMS - Czechoslovak Microscopical Society	1	-	-	-	-	-	-	-
EMS - The European Microscopy Society	1	-	-	-	-	-	-	-
ALCA - The American Leather Chemists Association, Lubbock, Texas, USA	1	-	-	-	-	-	-	-
International Academic Network Human Potential Development in Central and Eastern EU States	1	-	-	-	-	-	-	-
Economic Commission of ČAZV Prague	3	-	-	-	-	-	-	-
I INCE - International Institute of Noise Control Engineering USA	1	-	-	-	-	-	-	-
ICA - International Commission for Acoustics	1	-	-	-	-	-	-	-
IBPSA - International Building Performance Simulation Association	1	-	-	-	-	-	-	-
Engineers Ireland	1	-	-	-	-	-	-	-
EBA - European Biomimicry Network	1	-	-	-	-	-	-	-
ORGANIZATION	Member	Member of the Bureau	President	Observer	reviewer of papers	Member of the Programme Committee	Member of the Supervisory Board	Chairman
Beijing Forestry University (BFU), Beijing, China - R.E.D., Design for Elderly Association	1	-	-	-	-	-	-	-
IAWA - International Association of Wood Anatomists	2	-	-	-	-	-	-	-
Slovak Fulbright Alumni	1	-	-	-	-	-	-	-
Solarpunk Institute	1	-	-	-	-	-	-	-
European Biomimicry Network	1	-	-	-	-	-	-	-
Age-Friendly Living Ecosystem (AFLE)	1	-	-	-	-	-	-	-
Scientific and Artistic Council of the Faculty of Multimedia Communications (FMK), Tomas Bata University (UTB), Zlín, Czech Republic - member	1	-	-	-	-	-	-	-
Czech Academy of Agricultural Sciences	1	-	-	-	-	-	-	-
Social Science & Business Research Network	1	-	-	-	-	-	-	-
Departmental Council of Doctoral Studies of the FLD ČZU Prague	2	-	-	-	-	-	-	-

WoodEMA Conference, 2021 The Response of the Forest-Based Sector to Changes in the Global Economy	1	-	-	-	2	2	-	-
Management Committee COST Action CA18236	2	-	-	-	-	-	-	-
TOTAL	58	2	1	1	2	2	1	1

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	-	-	-	-	-	-	-
Doctoral Studies Board "Design", FAD STU Bratislava	1	-	-	-	-	-	-	-
Preparatory Committee City of Culture BB 2022	1	-	-	-	-	-	-	-
Advisory body of the Ministry of Culture of the Slovak Republic for Support of Artistic Creation at Universities	-	-	-	-	1	-	-	-
Scientific and Artistic Council of FAD STUBA	1	-	-	-	-	-	-	-
Executive Board of the Slovak Accreditation Agency for Higher Education	1	-	-	-	-	-	-	-
Slovak Acoustical Society (SKAS)	1	-	1	-	-	1	-	-
Association of Slovak Scientific and Technical Societies	3	-	-	-	-	-	-	-
Slovak Organological Centre	-	-	1	-	-	-	-	-
Commission for the award of the Quality Mark for timber buildings	4	1	-	-	-	-	-	-
SÚTN Technical Commission 16	2	-	1	-	-	-	-	-
SÚTN Technical Commission 21	1	-	-	-	-	-	-	-
SÚTN Technical Commission 28	1	-	-	-	-	-	-	-
SÚTN Technical Commission 73	1	-	-	-	-	-	-	-
SÚTN Technical Commission 96	1	-	-	-	-	-	-	-
Slovak National Accreditation Service (SNAS) - assessor and expert for construction timber and wood products	-	-	-	-	1	-	-	-
Slovak Chamber of Civil Engineers	1	-	-	-	-	-	-	-

Woodworking Congress of TU in Zvolen	35	-	-	1	-	-	-	-
Sectoral Council for Forestry and Wood Processing	1	-	-	-	-	-	-	-
Slovak Society for Quality	1	-	-	-	-	-	-	-
Council of Universities	-	-	-	-	-	-	2	-
Board of Trustees of TU Zvolen	-	-	1	-	-	-	-	-
Slovak Physical Society	5	-	-	-	-	-	-	-
Union of Slovak Mathematicians and Physicists	10	-	-	-	-	-	-	-
Slovak Mathematical Society	1	-	-	-	-	-	-	-
Slovak National Accreditation Service	-	-	-	-	2	-	-	-
PEFC Slovakia	1	-	-	-	-	-	-	1
CITES Advisory Committee of the Ministry of the Environment, Nature Conservation and Landscaping Section	1	-	-	-	-	-	-	-
SK BIOM, Slovak Biomass Association	1	-	-	-	-	1	-	-
Presidium of the Voluntary Fire Protection of the Slovak Republic	1	-	-	-	-	-	-	-
Regional organisation of the Voluntary Fire Protection of the Slovak Republic	-	-	-	1	-	-	-	-
ORGANIZATION	Member	Administrator	Vice-President	Chairman	expert	Secretary	representative of TUZVO	National Secretary
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	-	-	-	-	-
Thematic Working Group BBSK - Civil Society	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	13	-	-	-	-	-	-	-
Working group established for the purpose of elaboration of documents for the implementation of the national education, training and training centre of the HaZZ	1	-	-	-	-	-	-	-
International Association of Wildland Fire (IAWF)	1	-	-	-	-	-	-	-
KEGA Commission No. 3	1	-	-	-	-	-	-	-
Council for the preparation of the National Forestry Programme 2022-2030 - Thematic Committee 2 Forests and Timber	1	-	-	-	-	-	-	-
Slovak Society for Geometry and Graphics	1	-	-	-	-	-	-	-
TOTAL	103	1	5	3	4	2	2	1

IV. 3.5 MEMBERSHIP OF INTERNATIONAL AND NATIONAL EDITORIAL BOARDS

JOURNAL	Member	gestor	Deputy Editor-in-Chief	Chairman	Vice-Chairman	Reviewer	scientific editor	editor
Redakčná rada časopisu "Vedecký časopis o kultúre regionu na Slovensku / Scientific Journal of Regional Culture in Slovakia"	1	-	-	-	-	-	-	1
Council of the Faculty of Science at the Faculty of Science of the University of Applied Sciences of the University of Applied Sciences of the University of Applied Sciences	-	6	-	-	-	-	-	-
Editorial Board of Interiery magazine	1	-	-	-	-	-	-	-
Editorial Board Folia Forestali Polonica Series B - Forestry	1	-	-	-	-	-	-	-
Editorial Board of Acta Silvatica et Lignaria Hungarica	1	-	-	-	-	-	-	-
Editorial Board of Wood Research	3	-	-	-	-	-	-	-
Polymers, Special Issue: New Challenges in Wood and Wood-Based Materials II	-	-	-	-	-	-	-	2
Applied Sciences, Special Issue: Application of Wood Composites II	-	-	-	-	-	-	-	1
Applied Sciences, Special Issue: Application of Wood Composites III	-	-	-	-	-	-	-	1
Polymers	-	-	-	-	-	-	-	1
Materials Special Issue: Advanced Eco-friendly Wood-Based Composites	-	-	-	-	-	-	-	1
Advances in Materials Science and Engineering, Special Issue: Advances in Wood Composites	-	-	-	-	-	-	-	1
Sensors, Special Issue: Nondestructive Evaluation of Wood-Based Materials and Timber Structures	-	-	-	-	-	-	-	1
Polymers, Special Issue: Wood Waste-Based Composites	-	-	-	-	-	-	-	1
Frontiers and Materials Research Topics Modification of Wood and Wood-Based Composites: technologies, Characterization and Application	-	-	-	-	-	-	-	1
Materials	-	-	-	-	-	-	-	1
Polymers, Applied Sciences, Sustainability, Forests, Materials, European Journal of Wood and Wood Products, Bioresources	-	-	-	-	-	1	-	-
Editorial Board of Science Nature Technologies	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 Central European Journal of Labour Law and Personal Management	1	-	-	-	-	-	-	-
Scientific Committee of the conference Financing Forests Wood 2021, November 2021 TU in Zvolen - member	1	-	-	-	-	-	-	-
Scientific Council of the Grant journal	1	-	-	-	-	-	-	-
Scientific Council of the Conference GLOBALIZATION AND ITS SOCIO-ECONOMIC CONSEQUENCES, 21st International Scientific Conference, 13th - 14th October 2021 Žilina, Slovak Republic	1	-	-	-	-	-	-	-
Editorial Board of the Journal of Business Management	-	-	1	-	-	-	-	-
Scientific Board of the Journal of Business Management	-	-	-	-	1	-	-	-
Editorial Board of Forests	1	-	-	-	-	-	2	-
Forests, Special Issue Composites from Recycled and Modified Woods-Technology, Properties, Application	-	-	-	-	-	-	-	2
Editorial Board of Cellulose Chemistry and Technology	1	-	-	-	-	-	-	-

Editorial Board of DELTA TU Zvolen	1	-	-	1	-	-	-	3
JOURNAL	Member	gestor	Deputy Editor-in-Chief	Chairman	Vice-Deputy	Reviewer	scientific editor	editor
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 Goldiș" Arad. Economic Sciences	2	-	-	-	-	-	-	-
Sustainability (MDPI)	1	-	-	-	-	-	2	1
Special Issue. Advances in Wood Composites	-	-	-	-	-	-	-	1
Special Issue. Advances in Wood Treatment	-	-	-	-	-	-	-	1
International Journal of Green Technology	1	-	-	-	-	-	-	-
Editorial Board (reviewer) of the scientific journal Przegląd leśniczy	1	-	-	-	-	1	-	-
Editorial Board of Forestry, Forest, Paper and Woodworking Industry	1	-	-	-	-	-	-	-
Editorial Board of Acta Facultatis Xylogologiae Zvolen	9	-	-	1	-	-	-	-
Editorial Board of Lesotechnickeskij 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	-	-	-	-	-	-	-
Problems of risk management in the technosphere", created at the St. Petersburg University of the Ministry of Emergency Situations of the Ministry of Emergency Situations of the Russian Federation	1	-	-	-	-	-	-	-
Safety an Open Access Journal	-	-	-	-	-	-	1	-
TOTAL	42	6	1	2	1	2	5	20

IV. 3.6 IMPLEMENTATION OF INTERNATIONAL PROGRAMMES

In the framework of the ERASMUS+ Call Key Activity KA107 - Mobility of students and staff of HEIs between programme countries and partner countries (ERASMUS+ Credit Mobility), the implementation of the planned mobilities was limited in 2021 due to the epidemiological situation.

Current ongoing Erasmus KA107 projects for DF

Responsible task solver: doc. Ing. Ján Parobek, PhD.
North-Eastern Federal University - Russian Federation - Yakutia - project finished 31.7.2021

Responsible task solver: doc. Ing. Ján Parobek, PhD.
Instituto Tecnológico de Costa Rica, Cartago, Costa Rica

Responsible task solver: doc. Ing. Zuzana Tončíková, ArtD.
PURDUE University, IN, USA

Responsible task solver: doc. Doc. Acad. Prof. René Baďura

Beijing Forestry University - China

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

Principal investigator: doc. Ing. Richard Kminiak, PhD.

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

The aim of the Erasmus+ project: improving the teaching of CNC woodworking and wood-based materials. The project is implemented on the basis of the Erasmus+ grant agreement "2019-1-CZ01-KA202-061229" and the subsequent partnership agreement and mutual cooperation in the implementation of the project between the partners Higher Vocational School and Secondary School of Applied Sciences Volyně, Technical University in Zvolen and Woodworking School Maribor.

COST projects:

COST ACTION PROJECT - CA16229

Task name: European Network for Environmental Citizenship (ENEC)

Responsible task solver: Ing. Vladislav Kaputa, PhD. , Ing. Ing.

COST ACTION CA 18135

Task name: Fire in the Earth System: Science & Society

Responsible task solver: doc. Ing. Andrea Majlingová, PhD. , MSc. , prof. RNDr. Danica Kačíková, PhD. , MSc.

COST ACTION PROJECT - CA18236

Task name: Multi-disciplinary Innovation for Social Change

Responsible task solver: Ing. Vladislav Kaputa, PhD. , doc. Ing. Ing.

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

Department of Furniture and Interior Design

Graphic design of the visual identity of the event - ŠVOČ DF (61st year) at TU in Zvolen
Mgr. art. Katarína Boborová, ArtD. (25. 05. 2021)

[graphic design of the visual identity of the event: main logo (SK and EN), poster - invitation (SK and EN), diplomas, design for promotional and gift items (USB key); 61st year of the on-line international student scientific conference ŠVOČ DF at TU Zvolen].

Invited lecture: doc. Ing. Zuzana Tončíková, ArtD, BIO-HACKATHON, Biotech Solutions Marathon. Lifbee academy, biospher.org, 9 - 11 February 2021 Biology Tools " Biomimicry for nature-inspired innovation".

Design on the Border 2021, LONG LIFE,

Invited lecture on the topic: doc. Ing. Zuzana Tončíková, ArtD. Can nature inspire the design of adaptable, healthy and self-sustainable innovations in design ? 13.5. 2021, 12th annual lecture series on design, Zlín Design Week, UTB Zlín, Czech Republic, available at: <https://www.youtube.com/watch?v=rgHZ570DCtY>

Pharmacy SALVATOR, Bratislava - Realization and visualization of the pharmacy (doc. akad. sculptor. René Baďura, prof. Ing. Juraj Veselovský, CSc., Ing. Roman Nôta, PhD., 15. 06. 2021)

Redesign of the interior of the Novohrad Library in Lučenec

Mgr. Elena Farkašová, ArtD., Ing. arch. Stanislava Švantner Troppová (15. 06. 2021)

Tour of the exhibition space, working meeting, negotiation on the project
č. 001TU Z-4/2021 Baďura [Postvirotic design (furniture and interior)]

Solo exhibition Ľubo Gajdoš - Between Design and Object

Statua Gallery, Pálffy Palace, Zámocká 47, Bratislava

Mgr. Ľuboš Gajdoš, ArtD. (duration of the exhibition 16. 06. - 07. 07. 2021)

Municipal Office, Sliač - Negotiation on cooperation (Ing. arch. Stanislava Švantner Troppová, Mgr. Elena Farkašová, cooperation with the municipality (Ing. arch. Stanislava Švantner Troppová - architect, 21. 06. 2021)

Graphic design (visual for the event) - 17th International Student Competition in Furniture and Interior Design Professor Jindřich Halabalu Award 2021

Ing. Miroslav Chovan, ArtD. (25. 06. 2021 info-poster, 09. 11. 2021 official poster)

(info-poster 1. and 2., official poster, separate poster for competition category 5 Furniture and Interior Design - PhD students' category, web banner, diploma)

Martin Somora: Realisation of the work - statue of King Belo IV. in Banská Bystrica - City of Banská Bystrica

Ing. arch. Martin Somora, ArtD. (25. 06. 2021)

The unveiling ceremony of the statue of King Belo IV took place on 25 June 2021 in the presence of representatives of the city of Banská Bystrica and representatives of the Hungarian government.

Mikuláš Kováč Public Library, Banská Bystrica - Consultation

(Ing. arch. Stanislava Švantner Troppová, 03. 09. 2021)

Andy Warhol Museum of Modern Art, Medzilaborce

[KEGA No. 001TU Z-4/2021 Baďura, Postvirotic design (furniture and interior)]

(Ing. Roman Nôta, PhD., 28 October 2021)

Comenius University (UK), Bratislava - Consultation on the project "Replacement of furniture in the rooms of Mlyny - UK"

(Ing. Roman Nôta, PhD., October 29, 2021)

MyMachine Slovakia - developing competences for the 21st century

Mgr. Elena Farkašová, ArtD. (01. 11. 2020 - 31. 12. 2022)

This project was implemented thanks to support from the European Social Fund and the European Regional Development Fund under the Human Resources Operational Programme.

Students of the Department of Furniture and Interior Design joined the educational programme MyMachine Slovakia, which is implemented by the Carpathian Foundation in Košice.

Idea - primary school children invent their dream invention.

Concept - college students suggest design and function.

Prototype - high school students build a working prototype (<https://mymachine.sk>)

Graphic design of the poster for the event - Faculty of Wood Sciences and Technology Night 2021

3rd year online via streaming on the DF YouTube channel - df.tuzvo.sk

Ing. Miroslav Chovan, ArtD. 11. 11. 2021 - information poster, internet banner

Catalog of students projects: the Biomimicry method and its application for sustainable innovations inspired by nature

doc. Ing. Zuzana Tončíková, ArtD. (02. 12. 2021)

(Technical University in Zvolen, 1st edition, 2021, 218 p., ISBN 978-80-228-3296-0)

graphic design of the publication created within the Erasmus+ international cooperation between TU Zvolen and PURDUE University, IN, USA. Interactive digital catalogue of student projects in the field of design, DVD carrier - interactive (pdf) format includes project presentations and videos created by students of both universities.

Department of Wooden Structures

Videoconference: 'Sustainable architecture'

Venue and Time: On-line Teams 30 November 2021

Organizer, gestors: Technical University in Zvolen, Faculty of Wood Technology, Department of Wooden Structures, ORGANICA

Gestor: prof. Ing. Prof. Jozef Štefko, CSc.

Invitation and stream is published on the KDS homepage [HERE](#)

2. International Conference "Material-Acoustics-Place 2021"

14th International Conference Material - Acoustics - Place 2021 in Zvolen

Venue and Time: Online Teams 24 September 2021

Gestor: doc. Ing. Martin Čulík, PhD.

Department of Wood Technology

Lecture about mushrooms for pupils of the T. Vansova in Zvolenska Slatina (in cooperation with LF-KIOLK, doc. M. Pavlík) - Ing. Zuzana Vidholdová, PhD.

Department of Economics, Management and Entrepreneurship

- **Conceptual preparation of the structure and content of the podcasts** with addressing former successful graduates of economic studies at the Faculty of Economics with the plan of their gradual publication on social networks and the department's website in order to promote studies in the field of Economics and Business Management of the Faculty of Economics and Business Management
- Reaching out to high school students by sending promotional materials and souvenirs to promote studies in Business Economics and Management DSP

Department of Woodworking

In the framework of long-term cooperation with Advantage CZ, in the months of November and December, the loan of unique ALICONA instrumentation for 3D analysis of material surfaces was realized.

Department of Fire Protection

In 2021, the Department of Fire Protection cooperated with primary schools in Zvolen on the preparation of the Children's Firefighting University 2021. Due to the epidemiological situation related to COVID-19, which did not allow the implementation of the event, the cooperation will continue after the release of the measures.

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.

The survey was addressed to **91** full-time and part-time graduates who completed one of the engineering or master's degree programmes in the academic year 2020/2021 at the faculty. The survey was carried out approximately half a year after graduation and in order to obtain the highest possible return rate, questionnaires were sent out in two rounds (**January 2022** and **February 2022**). In total, only **36 respondents** out of 92 responded, representing a **return rate of** only 40% 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, **100% were** former full-time students. The structure of the respondents involved according to the degree completed is shown in Figure IV-1.

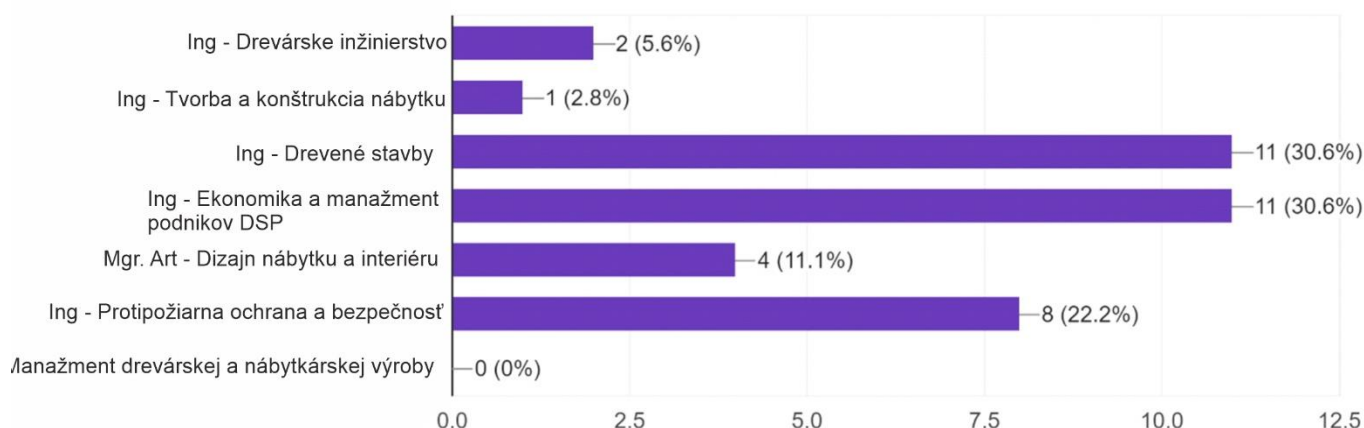


Fig. IV-1 Structure of respondents according to the completed studies

Of the total number of respondents, 11% were working abroad. 80.6% of the respondents are currently employed, 5.6% are unemployed. 33% of the unemployed report that they are

voluntarily unemployed. The rest of the respondents (2) report that they are currently working abroad on internships, and (3) are continuing their doctoral studies.

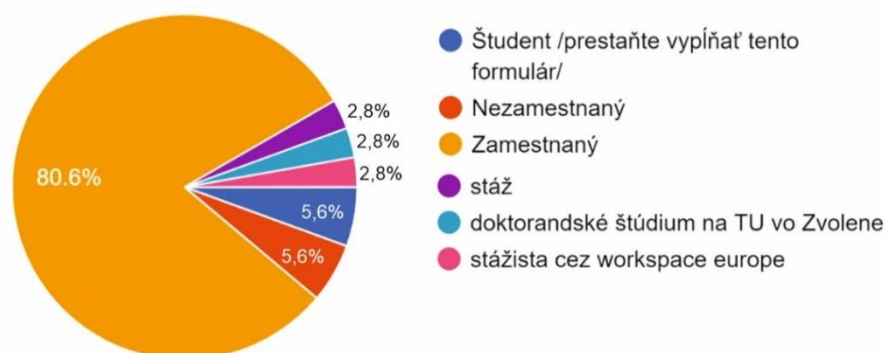


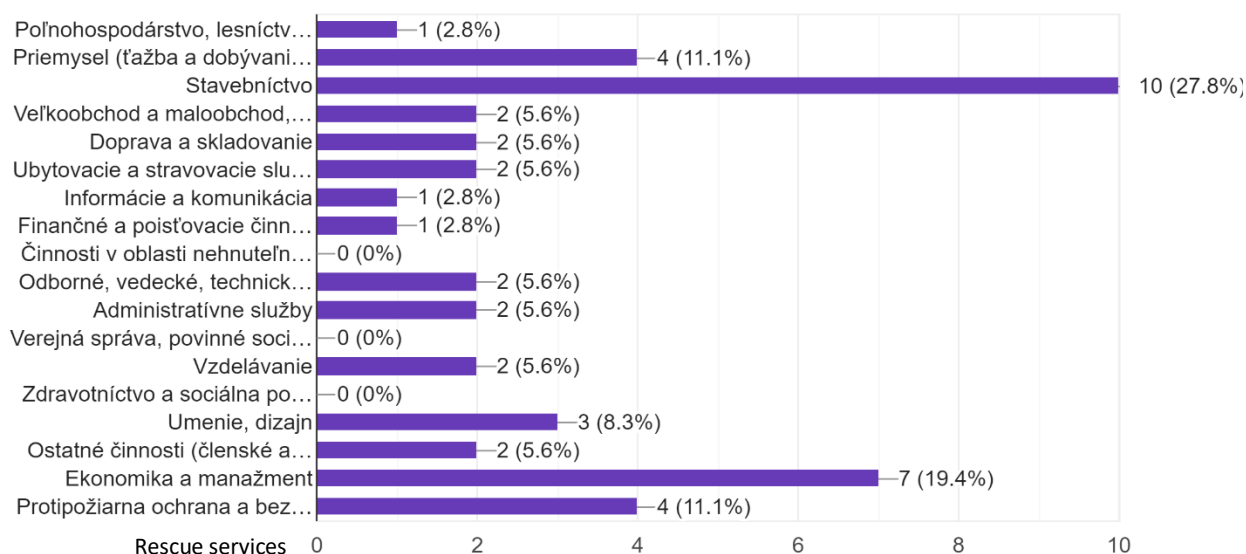
Fig. IV-2 Employment structure

Tab. IV-3 Employment overview by completed study programme

Completed study programme	Employee/ Entrepreneur	
	N	%
Wood Engineering	2	100 %
Creation and construction of furniture	1	100 %
Timber and wood structures	11	91%
Economics and Business Management DSP	10	90%
Fire protection and safety	8	100%
Furniture and interior design	4	100%

An overview of the sectors in which working graduates have found employment is given in Tab. IV- 4.

Tab. IV-4 Employment of graduates by sector



Only 39% of graduates reported working in the woodworking and related industries. Specific activities include the following: carpentry, furniture manufacturing, primary wood processing, wood products trade, furniture dealer, prefabricated house manager, timber construction and timber building designer.

Due to the relatively small return rate of the questionnaire and when comparing the results with the statistical data collected on graduates by the Ministry of Education and Science from the social insurance office 6 months after graduation, it is clear that a number of graduates remain voluntarily unemployed for a number of reasons that are beneficial to them. Based on an individual survey of a small sample of graduates contacted, the main justification is to gain the opportunity to draw on various forms of state support to set up a trade. Another group prefers gaining experience on foreign internships to employment, while remaining registered in Slovakia as unemployed. For this reason, the statistical data, which may appear to the detriment of some study programmes, do not correspond to the actual state of employability in the context of employability.

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.

Activities related to the development of public relations and promotional activities of the DF have been significantly affected by the pandemic situation. A number of traditional and pre-planned events, activities and events had to be cancelled or were conducted through virtual online space.

DF activities in the framework of public relations development:

- Implementation of a **survey on the employability of DF graduates** through a questionnaire survey of 2nd degree graduates.
- Organisation of the **DF 2021 Open Day** in the online environment (organised by the Vice-Dean for PP). Due to the COVID_19 pandemic, the entire promotion of the study was moved to the online space of the virtual DOD of external processors and advertising in the print newspapers SME and Pravda, My Zvolen (<https://www.narodnekariernecentrum.sk>, www.vysokeškoly.sk, etc.) was arranged.
- Promotion of study fields on social networks, in the media, paid advertising.
- Promotion of the DF and news on the DF through **Facebook** and the university website.
- Educational exhibitions and information about study opportunities at the Faculty - implemented online.
- The Faculty of Wood Sciences and Technology in cooperation with SARIO entered into a project aimed at linking faculties with companies in the areas of diploma theses, internships and joint research and development projects.
- Published a brochure on DF primarily for the professional public, practitioners, domestic and foreign students, companies and universities in SJ and AJ.
- Promotion of timber companies in the premises of DF.

- **Comprehensive preparation of the new communication strategy of TUZVO - SK-PR agency**, processing of uniform sliders, banners and visual identity for the preparation of promotional materials.
- **Technitra 2021 - Virtual Engineering Fair**: the DF joined the online event with a video presentation with the possibility of a live chat during a dedicated time. 27-28-5. 2021 <https://www.youtube.com/watch?v=BTP61-c8fRY&t=3s>.
- **Establishment of a co-working centre of TUZVO** in the premises of the Faculty . Development project successfully submitted based on the concept created by KDNI students in the 2019 workshop. Project implementation 2021.
- **Virtual NIGHT of the Faculty of Wood Sciences and Technology 2021**
DF is involved in the Week of Science and Technology in Slovakia (08.11. - 14.11. 2021). Within this week, on 11/11/2021, we connected the event **DF NIGHT**, which included video presentations on study opportunities and promotion of DF with the conference of DF PhD students - **SCIENCE AROUND THE WOOD DESIGN AROUND THE SCIENCE** - online presentations of PhD thesis projects broadcasted on the DF YouTube channel. A peer-reviewed proceedings of the PhD students' conference was published. <https://www.youtube.com/watch?v=V3OuQPNkBMg>

HOME AWARDS 2021

RECTOR'S PRIZE OF THE DUCHY OF TUZVO

- **Award for the best book publication**

FARKAŠOVÁ, E. - PETRÁNSKY, Ľ. Design theory and methodology 1: university textbook. 1st ed. Zvolen : Technical University in Zvolen, 2020. 200 s. ISBN 978-80-228-3219-9

FARKAŠOVÁ, E. - PETRÁNSKY, Ľ. Design theory and methodology 2 : university textbook. 1st ed. Zvolen : Technical University in Zvolen, 2020. 182 p. ISBN 978-80-228-3243-4.

- **Prize for scientific, artistic or scientific-artistic contribution for individuals and collectives**

KUBOVSKÝ, I. - KAČÍKOVÁ, D. - KAČÍK, F. Structural changes of oak wood main components caused by thermal modification. In Polymers. 2020. p. 2020. ISSN 2073-4360.

PLEASE J. A. KOMENSKÝ AWARDED BY THE RECTOR OF THE TUZVO

Ing. Veronika Velková, PhD., KPO DF - for selfless pedagogical activity, active use of new methods in teaching during distance education. She leads the preparation of final student theses. Helps students in solving their study and extracurricular plans.

prof. Ing. Jozef Kúdela, CSc., KND DF - for his lifetime work in educational activities and extremely creative scientific and research activities connected with the education of young potential scientists.

INSAID AWARDS 2021

Slovak Association of Interior Designers (SAID) in Bratislava awarded the project of a student

Bc. Terézia Kováčiková - design proposal "Ceramic workshop and showroom",
professional guidance: doc. Ing. Zuzana Tončíková, ArtD., KDNI
(<https://www.insaid.sk>, <https://www.insaid.sk/#bwg585/6129>)

FOREIGN AWARDS 2021

Department of Marketing, Trade and World Forestry

COST ACTION PROJECT - CA16229; European Network for Environmental Citizenship (ENEC)

An original outcome is the "Springer Nature 2020 Highlights - top research that made an impact" award. KAPUTA - LAPIN - LEREGGER - GEKIC. Economic dimensions of environmental citizenship. In Conceptualizing environmental citizenship for 21st century education - Cham: Springer, 2020. ISBN 978-3-030-20248-4, p. 29-48.

IV. 6. TABULAR ANNEX

Tab. IV-1 Overview of recruited and seconded staff by mobility focus in 2021

Type of journey	Adoption	Posting
Direct cooperation	-	-
Conferences, symposia, congresses	-	5
Study stays	-	-
Lecture stays	3	5
Competitions, exhibitions, excursions	-	1
Consultations on international projects	-	6
Other (consultations, VUR, training, education, opposition)	2	6
Detached office in Volyn	-	6
TOTAL for 2021	5	29
TOTAL for 2020	14	23
TOTAL for 2019	94	168

Tab. IV-2 Cumulative number of admissions to the DF for 2021

State	Lectureship, education	Op-ed	Total	Number of foreign participants in online form
Czech Republic	-	1	1	32
Hungary	2	-	2	5
Poland	1	-	1	13
USA	1	-	1	-
Russia	-	-	-	1
China	-	-	-	1
TOTAL 2021	4	1	5	52
TOTAL 2020	14	-	14	-
TOTAL 2019	36	58	94	-

Tab. IV-3 Cumulative number of seconded DF staff for 2021

State	Cooperation stays	Conferences, symposia, congresses	ERASMUS	Total
Czech Republic	10	1	2	13
Hungary	-	-	1	1
Poland	-	4	2	6
Austria	4	-	1	5
Slovenia	-	-	3	3
Spain	-	-	1	1
TOTAL for 2021	14	5	10	29
TOTAL for 2020	21	2	10	33
TOTAL for 2019	140	28	22	190

Tab. IV-4 ERASMUS+ Teacher Mobility - Teaching in 2021

Participant's name	Last name of the participant	Receiving institution	Receiving country	Start date	Date of completion
Mark	Potkany	Institute of Technology and Business	CZECH REPUBLIC	6.10.2021	9.10.2021
Vladislav	Kaputa	University of Ljubljana	Slovenia	14.6.2021	18.6.2021
Milos	Hitka	Institute of Technology and Business	CZECH REPUBLIC	6.10.2021	9.10.2021
Zuzana	Toncikova	Biomimicry Granada	Spain	5.11.2021	7.11.2021
Viera	Kučerová	SGGW	Poland	14.9.2021	18.8.2021
Iveta	Chabalova	SGGW	Poland	14.9.2021	18.8.2021
Hubert	Palush	University of Ljubljana	Slovenia	15.9.2021	19.9.2021
Jan	Parobek	University of Ljubljana	Slovenia	15.9.2021	19.9.2021

Tab. IV-5 ERASMUS+ mobility of students and staff between programme countries and partner countries in 2021

Participant's name	Surname of the participant	Sending institution	Sending country	Start date	Date of completion
Eva	Haviarová	Purdue University	USA	17.5.2021	28.5.2021

Tab. IV-6 ERASMUS+ mobility of incoming teachers and staff in 2021

Participant's name	Surname of the participant	Sending country	Start date	Date of completion	Type of activity
Greg	Erces	Hungary	27.9.2021	3.10.2021	Teaching
Sándor	Rác	Hungary	27.9.2021	3.10.2021	Teaching

Tab. IV-7

INTERNATIONAL TREATIES DF

P.n o.	Institution	Retrieved from	The emergence of	Duration	Signed for TUZVO	Responsible for the performance of the contract	Note
CZECH REPUBLIC							
1	SOCIETY FOR HERITAGE CONSERVATION TECHNOLOGY - STOP, Z. S., PRAGUE	Associate Membership Agreement of the Society for Technology in Preservation of Monuments - STOP, z. s.	1.1.2014	until 31.1.2014	prof. Siklienka	Dean of DF	is automatically extended
2	HIGHER VOCATIONAL SCHOOL AND SECONDARY INDUSTRIAL SCHOOL, VOLYN	Partnership agreement for the implementation of the project Building a training centre (of supra-regional importance) for the manufacturing industry	31.8.2007		prof. Čunderlík	Dean of DF	no expiry date specified
3	HIGHER VOCATIONAL SCHOOL AND SECONDARY INDUSTRIAL SCHOOL, VOLYN	Contract for the lease of non-residential premises for the purpose of establishing a detached workplace of TU in Zvolen	6.9.2005	indefinite period	prof. Tuček, prof. Čunderlík	Dean of DF	
4	HIGHER VOCATIONAL SCHOOL AND SECONDARY INDUSTRIAL SCHOOL, VOLYN	Mutual cooperation agreement	15.5.2000	indefinite period	prof. Marčok	Dean of DF	
5	KRONOSPAN SK, SPOL. S R.O.	Cooperation agreement	19.5.2005	indefinite period	prof. Tuček doc. Klement prof. Štefka	doc. Clement	č. 588/2005
CROATIA							
6	FACULTY OF FORESTRY, UNIVERSITY OF ZAGREB, ZAGREB	Cooperation agreement	academic year 2007/2008	5 years	prof. Tuček	Dean of DF	automatically extended for 5 years unless cancelled within 6 months before the expiry date
POLAND							

7	CZESTOCHOWA UNIVERSITY OF TECHNOLOGY, CZESTOCHOWA	University cooperation agreement	18.6.2009	3 years	prof. Tuček	Ing. Gejdoš, doc. Potkány	is automatically extended
P.n o.	Institution	Retrieved from	The emergence of	Duration	Signed for TUZVO	Responsible for the performance of the contract	Note
8	THE MAIN SCHOOL OF FIRE SERVICE IN WARSAW, WARSAW	Cooperation agreement	3.6.2002	indefinite period	prof. Šupín	doc. Polakovič	
9	WOOD TECHNOLOGY INSTITUTE	Cooperation agreement	15.8. 2020	Time indefinite	prof. Kropil	prof. Sedliačik	
RUSSIAN FEDERATION							
10	MOSCOW STATE FOREST UNIVERSITY, MOSCOW	Cooperation agreement	20.11.2015	indefinite period	prof. Kropil	prof. Sedliačik	30-day notice period
11	KAZAN NATIONAL RESEARCH TECHNOLOGICAL UNIVERSITY, KAZAN	Cooperation agreement	3.7.2015	indefinite period	prof. Kropil	Dean of DF	30-day notice period
12	VORONEZH STATE ACADEMY OF FORESTRY AND TECHNOLOGIES, VORONEZH	Cooperation agreement	30.10.2013	indefinite period	prof. Kropil	prof. Sedliačik	30-day notice period
13	THE IZHEVSK STATE TECHNICAL UNIVERSITY, IZHEVSK	Cooperation agreement	31.1.2008	5 years	prof. Tuček	prof. Sedliačik	can be extended in case of interest
14	SAINT PETERSBURG STATE FOREST TECHNICAL UNIVERSITY	Interinstitutional Agreement	18.1.2019	2021	prof. Kropil	Ing. Kaputa	
15	URAL FEDERAL UNIVERSITY	Cooperation agreement	4.9.2018	5 years	prof. Kropil	prof. Sedliačik	3-month notice period
SERBIA							
16	HIGHER EDUCATION TECHNICAL SCHOOL OF PROFESSIONAL STUDIES FROM NOVI SAD, NOVI SAD	Cooperation agreement	2.10.2014	indefinite period	prof. Kropil	Ing. Mračková	
17	COLLEGE OF APPLIED TECHNICAL SCIENCES, NISH	Framework cooperation agreement	10.7.2017	5 years	prof. Kropil	Ing. Mračková	30-day notice period
UKRAINE							
18	UKRAINIAN NATIONAL FORESTRY UNIVERSITY, LVOV	Cooperation agreement	19.12.2013	indefinite period	prof. Kropil	prof. Sedliačik	30-day notice period

P.n o.	Institution	Retrieved from	The emergence of	Duration	Signed for TUZVO	Responsible for the performance of the contract	Note
CHINA							
19	BEIJING FORESTRY UNIVERSITY (BJFU),	Cooperation agreement	2. 2019	indefinite period	prof. Kropil	doc. Baďura	
20	NANJING UNIVERSITY OF SCIENCE AND TECHNOLOGY (CHINA)	Memorandum of Understanding on ACADEMIC COOPERATION AND PERSONNEL EXHCANGE	31. 1.2018	5 years	Prof. Kropil		
BELGIUM							
21	JOINT RESEARCH CENTRE OF THE EUROPEAN COMMISSION	Cooperation agreement	5.3.2019	5 years	prof. Kropil	Dean of DF	orally or in writing may be extended
HUNGARY							
22	NATIONAL UNIVERSITY OF PUBLIC SERVICE HUNGARY	Framework cooperation agreement	19.6.2018	5 years	Prof. Kropil	Prof. Kačíková	

DOMESTIC CONTRACTS DF

P.n o.	Institution	Retrieved from	The emergence of	Duration	Signed for TUZVO	Responsible for the performance of the contract	Note
1	ŠKODA AUTO, A.S.	cooperation agreement	29.3.2017	5 years	prof. Kropil	doc. Baďura	
2	WOOD PROCESSORS ASSOCIATION	contract for the loan of non-residential premises	2.12.2016	31.12.2021	prof. Kropil	Dean of DF	
3	HOLDES, S.R.O.	cooperation agreement	14.11.2016	for an indefinite period	prof. Kropil	Dean of DF	
4	BUKÓZA HOLDING, A.S.	cooperation agreement	6.6.2008	for an indefinite period	prof. Tuček	Dean of DF	
5	NEFAB PACKAGING SLOVAKIA, S.R.O.	cooperation agreement	10.10.2007	for an indefinite period	prof. Tuček	Dean of DF	
6	KRONOSPAN SK, SPOL. S R.O.	cooperation agreement	16.3.2006	for an indefinite period	prof. Tuček	Dean of DF	No. 399/2006 (Prešov) - the company has already been dissolved
7	REGIONAL HAZZ HEADQUARTERS IN BANSKA BYSTRICA	Cooperation agreement	28.11.2017	For an indefinite period	Prof. Kropil	Prof. Kačíková	
8	MINISTRY OF THE INTERIOR OF THE SLOVAK REPUBLIC	Framework Agreement	30.6.2015	For an indefinite period	Prof. Kropil		
9	BEECH, DDD, SPOL. S R.O.	cooperation agreement	19.5.2005	for an indefinite period	prof. Tuček	Dean of DF	No. 48/2005 (Zvolen)
10	FCHPT STU BRATISLAVA	cooperation agreement	2.9.2005	for an indefinite period	prof. Čunderlík	Dean of DF	
11	UNIVERSITY OF PREŠOV IN PREŠOV	Framework cooperation agreement	18.9.2017	For an indefinite period	Prof. Kropil	Doc. Majlingová	
12	ORANGE SLOVAKIA, A. S. BRATISLAVA	cooperation agreement	12.2.2019	for an indefinite period	prof. Kropil	doc. Baďura	
13	VILLAGE SIELNICA	Loan agreements (CAS)	3.6.2014	For an indefinite period	Prof. Kropil	Ing. Mračková	
14	SECONDARY SCHOOL OF FIRE PROTECTION MV SR IN ŽILINA	Cooperation agreement	2.3.2018	For an indefinite period	Prof. Kropil	Prof. Kačíková	
15	INSTITUTE OF SPECIAL HEALTH AND TRAINING MO SR LEŠT'	Cooperation agreement	7.12.2011	For an indefinite period	Prof. Tuček		
16	COLLEGE OF SECURITY MANAGEMENT IN KOSICE	Framework cooperation agreement	7.6.2018	For an indefinite period	Prof. Kropil	Prof. Kačíková	