

B ICT students

Students of and graduates from ICT fields of education (in short ICT students and graduates) are **defined** by the International Standard Classification of Education: Fields of Education and Training 2013 used in the Czech Republic (**CZ-ISCED-F 2013**). ICT-related studies correspond to the broad field of education **Information and Communication Technologies (class 06)** of this classification that involves detailed defined fields of education as follows:

Computer use (0611);

Database and network design and administration (0612);

Software and applications development and analysis (0613);

ICT not elsewhere classified (0619) and

Inter-disciplinary programmes and qualifications involving ICT (0688).

Note: The 0619 and 0688 fields of education are merged into one category called here ICT n.e.c. and Inter-disciplinary ICT fields. The field of study Computer Use (0611) is not part of the study plan at universities.

Detail description of **CZ-ISCED-F 2013** is available here (*only in Czech*):

<https://www.czso.cz/csu/czso/klasifikace-oboru-vzdelani-cz-isced-f-2013>

Education at universities presented in this chapter for Czechia belongs to the tertiary level of education and **includes bachelor, follow-up master, master and doctoral study programmes**. Master and follow-up master study programmes together are called here master programmes. Studies can be delivered in full-time, distance, or combined type of education.

Data for the Czech Republic were obtained from data sources of the **Ministry of Education, Youth, and Sports (MEYS)**, namely from **the Union Information from Students' Registers (SIMS)**. The source database of SIMS is continually completed and updated, including retrospective corrections. Detailed information about the SIMS database is available here (*only in Czech*): <https://sims.msmt.cz/>

Data on university students are always as at **31 December of the reference year**; data on graduates are **for the entire school year**.

Numbers of students and graduates are given **as headcount**, i.e. each student is included in a particular piece of data only once, including students, who study in more study programmes or fields of education at the same time. The total numbers of students and graduates thus do not have to be equal to the sums of students and graduates of respective types of study programmes or field of education.

Eurostat database was used for **the international comparisons**. Data about number of students of and graduates from ICT fields of education contain information for tertiary level of education, i.e. including, for example, higher vocational schools. For this reason, the data for the Czech Republic from Eurostat differ from the data published by the CZSO available in the SIMS database. The main reason is mainly a slightly different definition of levels of tertiary education.

For more information on ICT students see (*only in Czech*):

<https://www.czso.cz/csu/czso/studenti-a-absolventi-ict-oboru-vysokoskolskeho-studia>

B ICT students and graduates

Table B1 University students of ICT fields of education in Czechia by gender, age and citizenship

	Number of students		
	2020	2021	2022
Total	21 647	22 440	23 488
Men	17 941	18 556	19 315
Women	3 706	3 884	4 173
Age			
Under 20 years	2 522	2 710	3 039
20-24 years	14 135	14 606	15 299
25-29 years	3 462	3 437	3 554
30-34 years	802	923	884
35 + years	726	764	712
Citizenship			
Czech citizens	15 361	15 546	15 887
Foreigners, total	6 287	6 894	7 601
Slovakia	3 247	3 163	3 144
Russia	1 080	1 320	1 342
Ukraine	534	660	1 086
other countries	1 426	1 751	2 029

Figure B1 University students of ICT fields of education

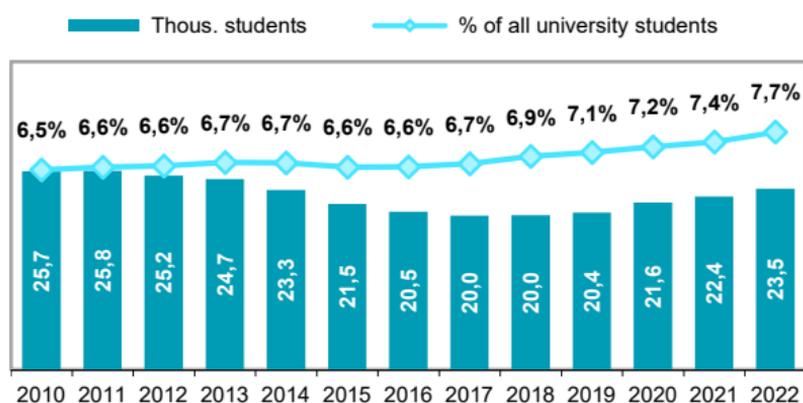


Figure B2 University students of ICT, by gender



Figure B3 University students of ICT, by citizenship



Source: CZSO calculation based on MEYS database

B ICT students and graduates

Figure B4 Tertiary students of ICT; 2021
(% of all tertiary students)

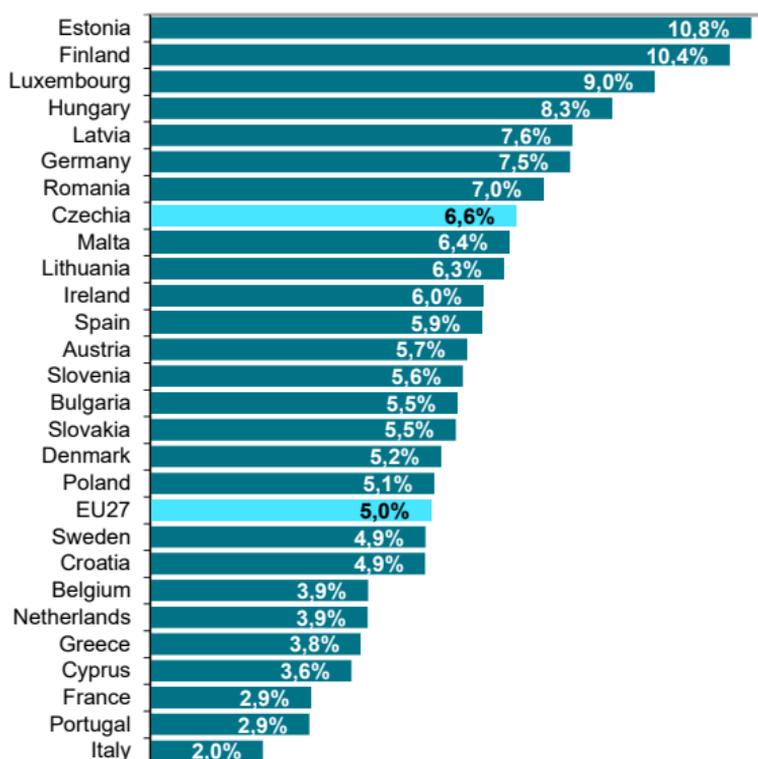
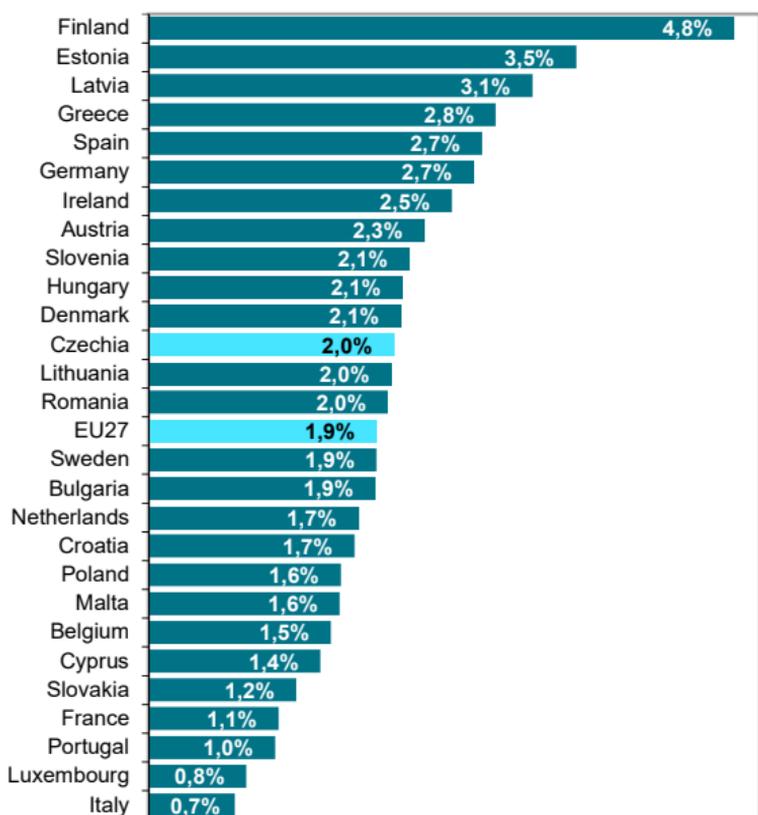


Figure B5 Tertiary students of ICT; 2021
(% of population aged 20 to 29 years)



Source: CZSO calculation based on Eurostat database

B ICT students and graduates

Table B2 University students of ICT fields of education in Czechia by selected characteristics

	Number of students		
	2020	2021	2022
Total	21 647	22 440	23 488
Students of public universities	21 013	21 616	22 645
Students of private universities	644	827	849
Studies			
Full-time studies	18 942	19 651	20 926
Distance and combined studies	2 727	2 803	2 580
Study programme			
Bachelor	15 692	16 329	17 192
Master	5 108	5 187	5 413
Doctoral	857	931	893
Field of study			
Software and applications development and analysis	14 383	16 130	17 460
Database and network design and administration	1 454	1 097	945
Inter-disciplinary and other ICT fields	5 849	5 257	5 116

Figure B6 University students of ICT, by studies

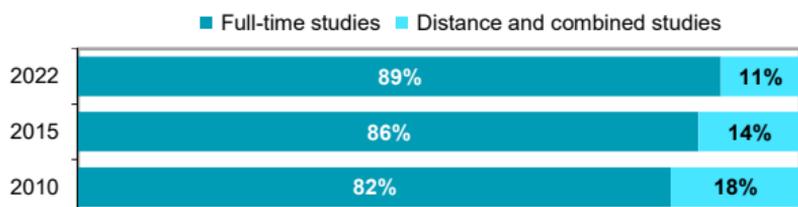


Figure B7 University students of ICT, by study programme

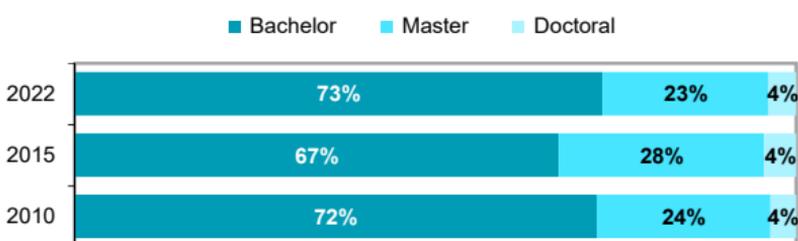
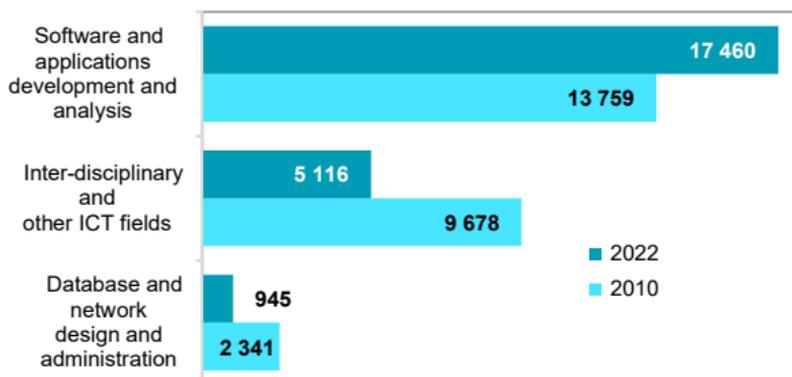


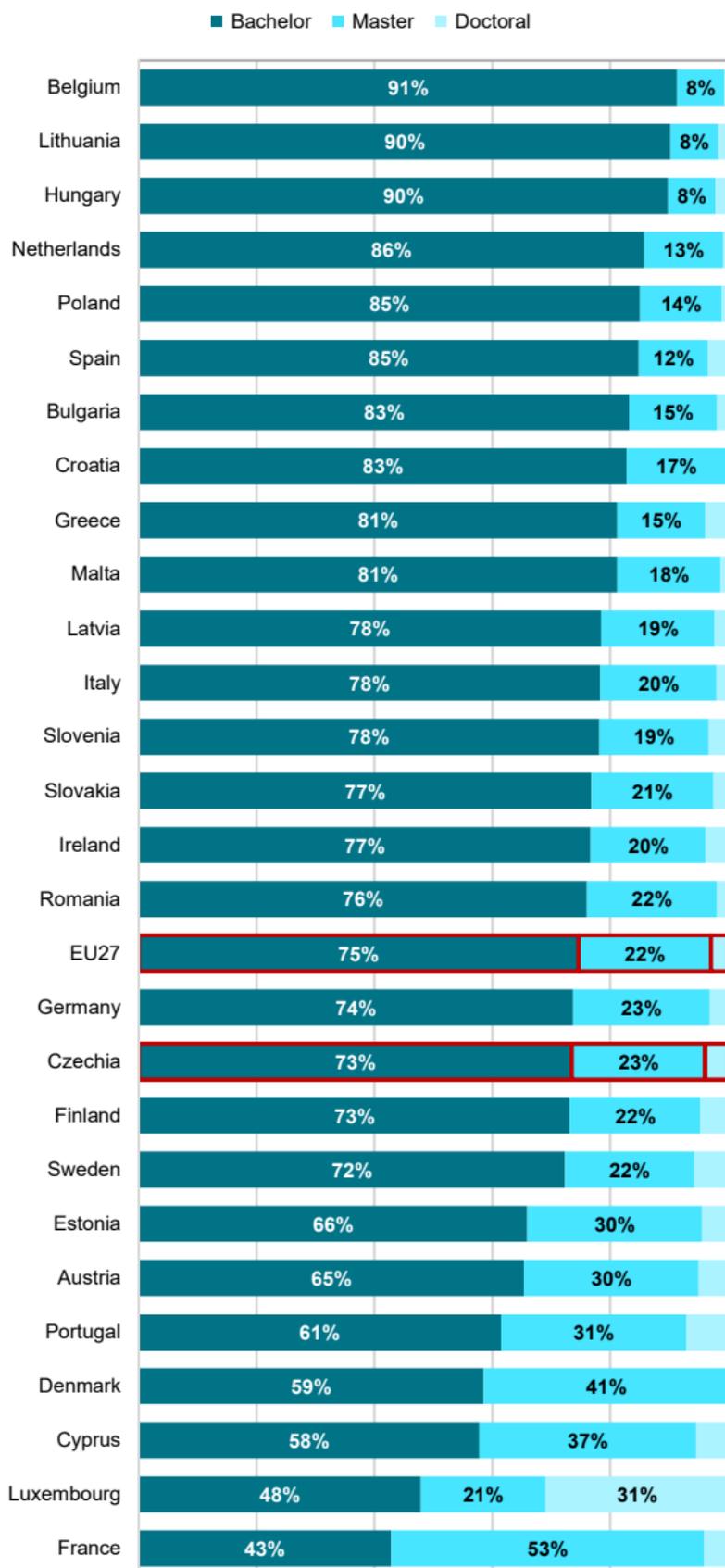
Figure B8 University students of ICT, by field of study



Source: CZSO calculation based on MEYS database

B ICT students and graduates

Figure B9 Tertiary students of ICT field of education by study programme; 2021



Source: CZSO calculation based on Eurostat database

B ICT students and graduates

Table B3 University graduates from ICT fields of education in Czechia by gender, age and citizenship

	Number of graduates		
	2020	2021	2022
Total	3 673	3 801	3 584
Men	2 983	3 091	2 963
Women	690	710	621
Age			
20-24 years	1 864	2 039	1 935
25-29 years	1 567	1 525	1 383
30-34 years	142	135	154
35 + years	100	102	112
Citizenship			
Czech citizens	2 734	2 786	2 578
Foreigners, total	939	1 015	1 006
Slovakia	628	721	683
Russia	97	89	111
Ukraine	66	61	58
other countries	148	144	154

Figure B10 University graduates from ICT fields of education

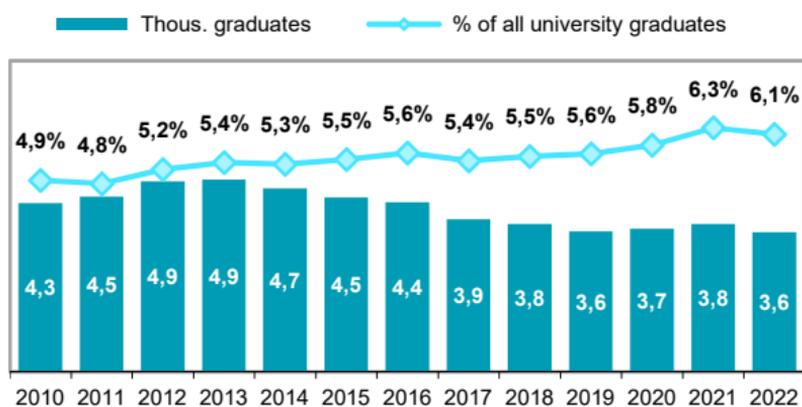


Figure B11 University graduates from ICT, by gender

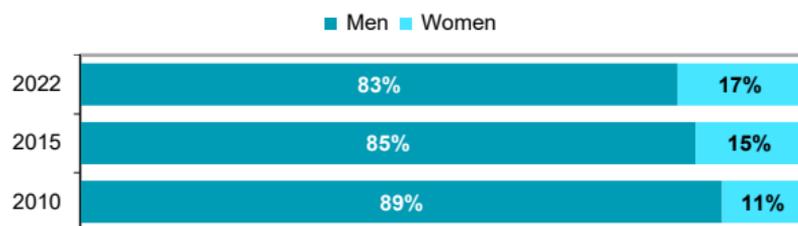
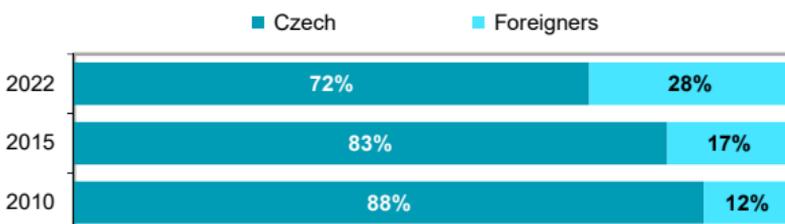


Figure B12 University graduates from ICT, by citizenship



Source: CZSO calculation based on MEYS database

B ICT students and graduates

Figure B13 Tertiary graduates from ICT; 2021
(% of all tertiary graduates)

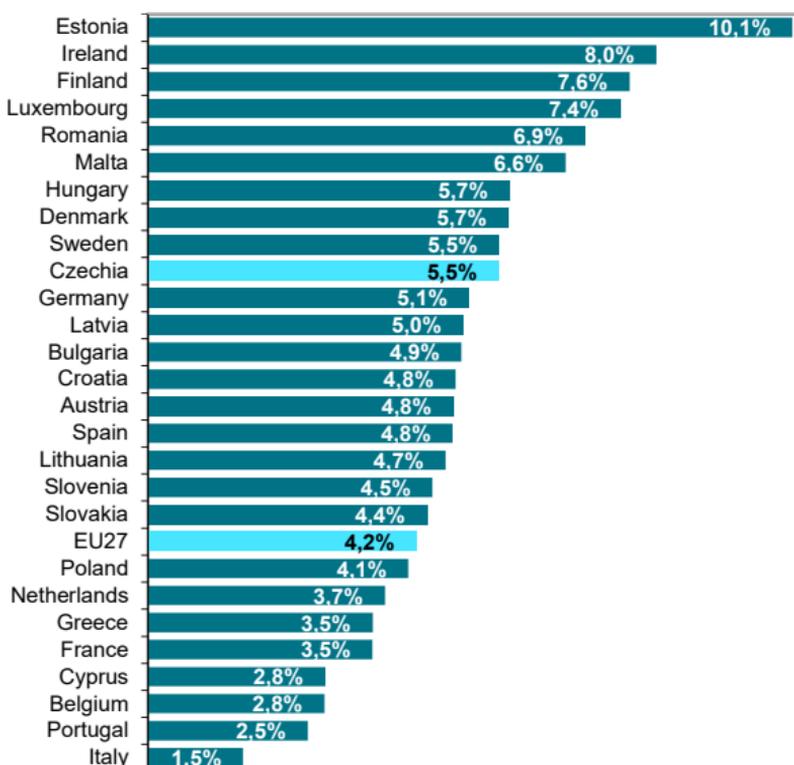
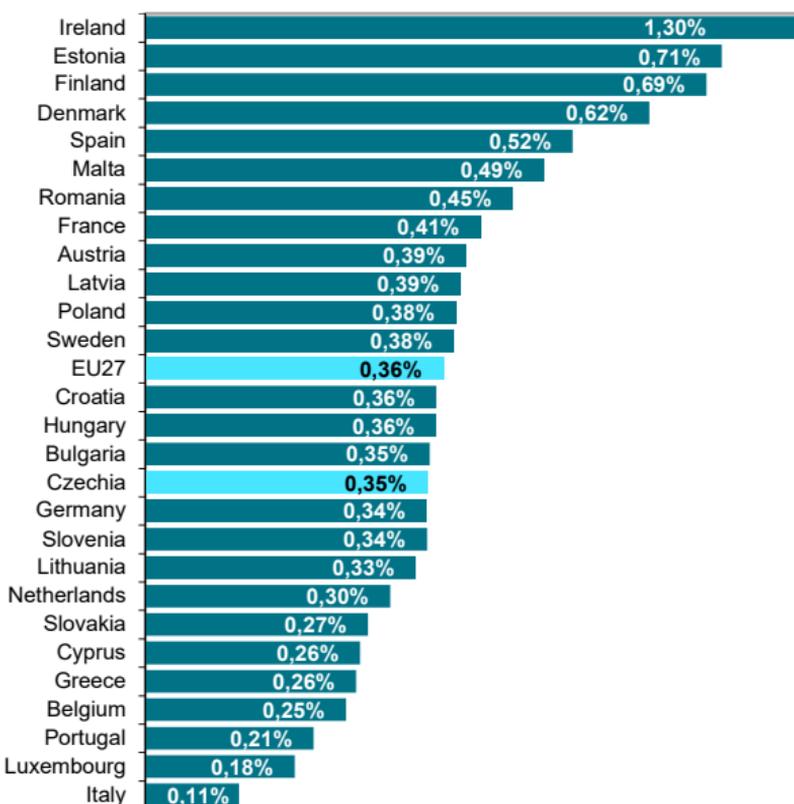


Figure B14 Tertiary graduates from ICT; 2021
(% of population aged 20 to 29 years)



Source: CZSO calculation based on Eurostat database

B ICT students and graduates

Table B4 University graduates from ICT fields of education in Czechia by selected characteristics

	Number of graduates		
	2020	2021	2022
Total	3 673	3 801	3 584
Graduates from public universities	3 633	3 732	3 534
Graduates from private universities	40	69	50
Studies			
Full-time studies	3 337	3 503	3 268
Distance and combined studies	336	298	316
Study programme			
Bachelor	2 081	2 241	2 197
Master	1 543	1 497	1 301
Doctoral	49	63	86
Field of study			
Software and applications development and analysis	1 947	2 011	2 264
Database and network design and administration	456	431	279
Inter-disciplinary and other ICT fields	1 267	1 268	912

Figure B15 University graduates from ICT, by studies

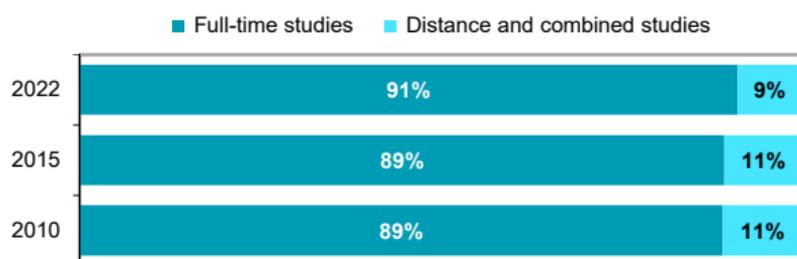
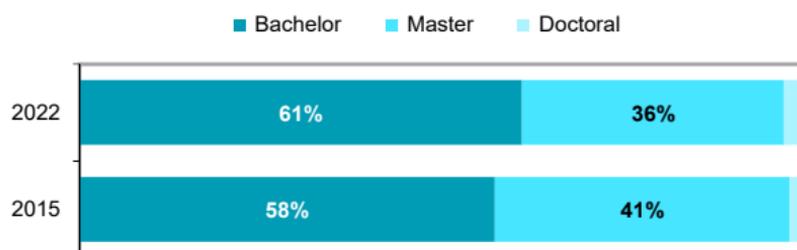
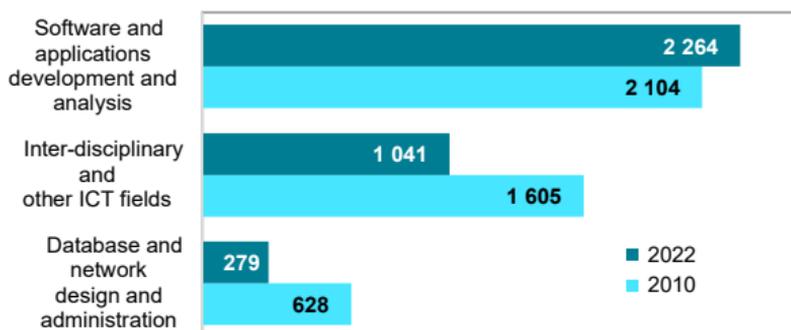


Fig. B16 University graduates from ICT, by study programme



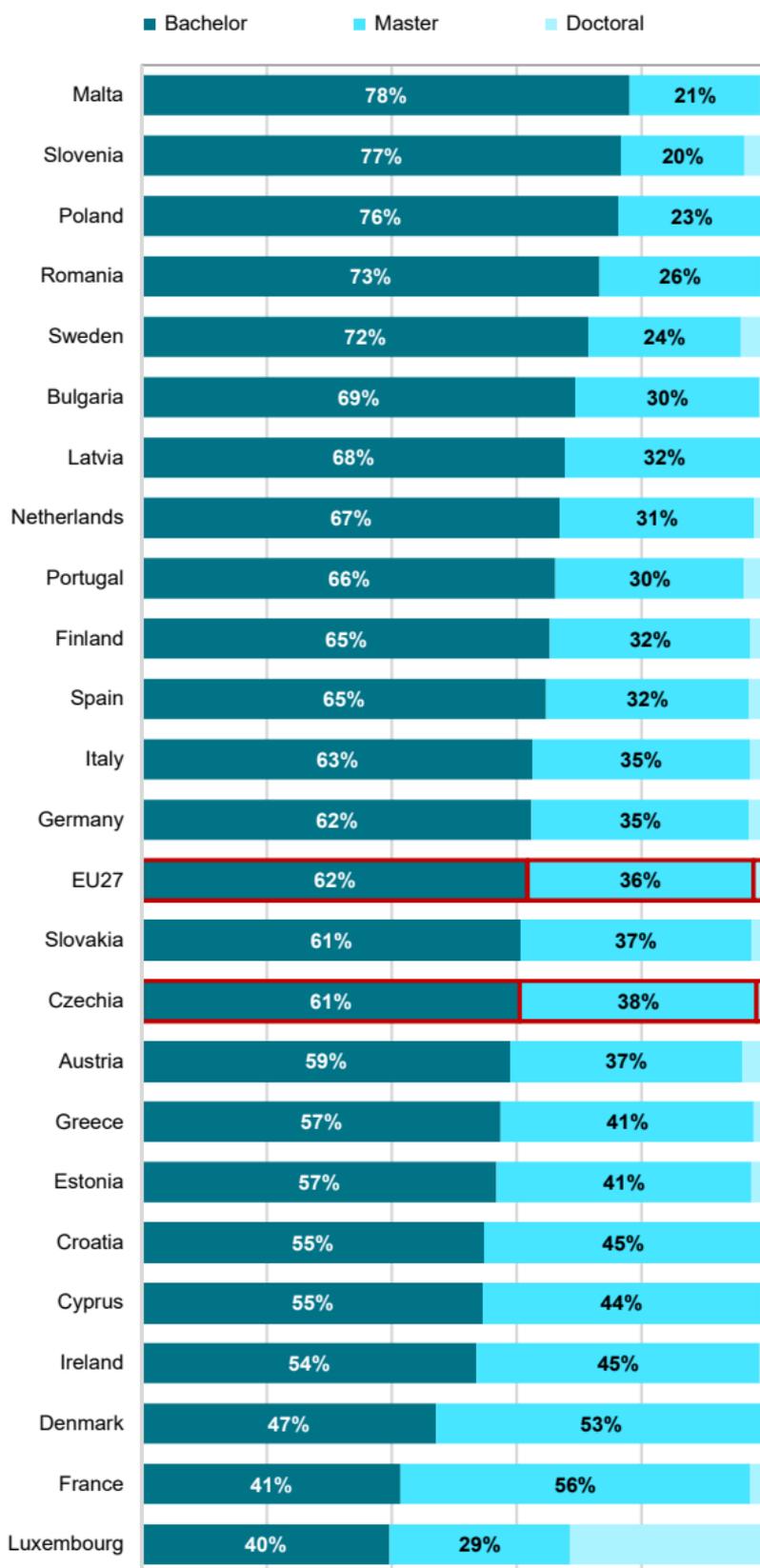
Graf B17 Absolventi ICT oborů na VŠ podle oboru



Source: CZSO calculation based on MEYS database

B ICT students and graduates

Figure B18 University graduates from ICT, by study programme; 2021



Source: CZSO calculation based on Eurostat database

B ICT students and graduates

Figure B19 Share of women among all tertiary students of ICT fields of education; 2021

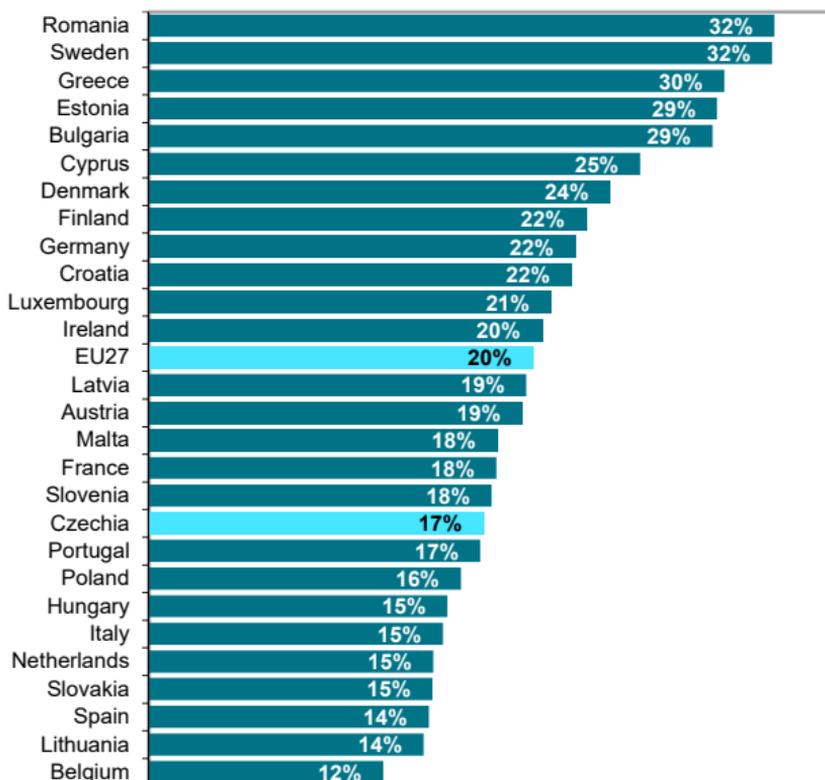
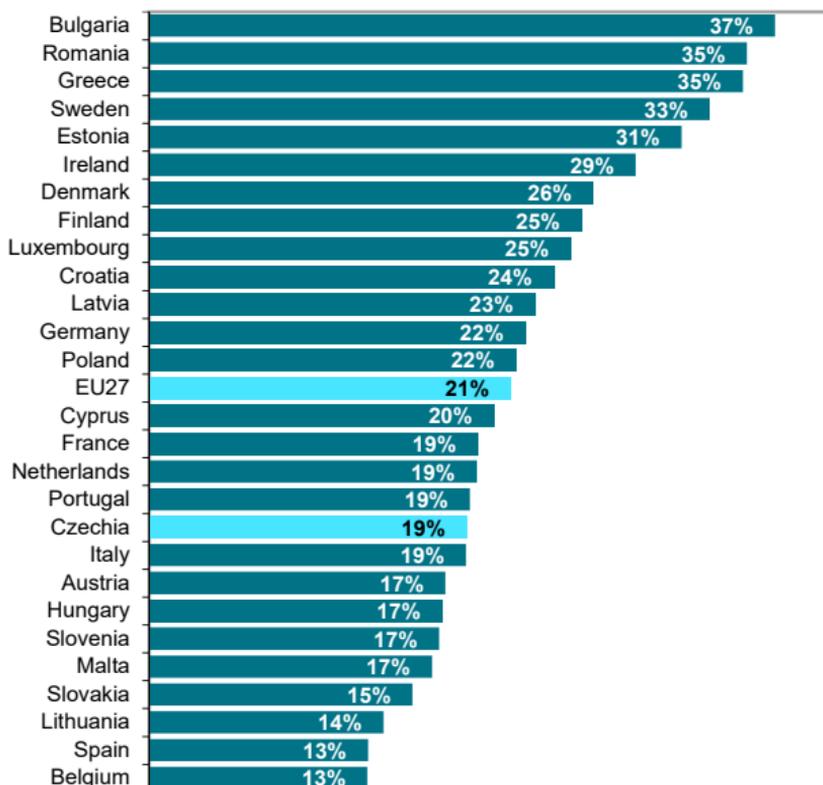


Figure B20 Share of women among all tertiary graduates from ICT fields of education; 2021



Source: CZSO calculation based on Eurostat database