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STUDENTS ENROLLED ON UNIVERSITY DOCTORAL STUDIES, 2023/2024 ACADEMIC YEAR

In the 2023/2024 academic year, **4 788** doctoral candidates enrolled on university doctoral studies.

The highest number of doctoral candidates were enrolled at the University of Zagreb, **60.5%**, followed by 12.0% enrolled at the University of Osijek, 10.3% at the University of Rijeka, 8.0% at the University of Split, 2.8% at the University North, 2.4% at the Catholic University of Croatia, 2.2% at the University of Zadar, 0.7% at the University of Slavonski Brod, 0.6% at the University of Dubrovnik, 0.3% at the University of Pula, and 0.2% at the Libertas International University.

More women than men enrolled on university doctoral studies

The share of women in the total number of doctoral candidates was 2 742 (**57.3%**). The highest share of female doctoral candidates was enrolled at the University North, 81.3%, followed by the University of Pula, with 75.0% of them, the University of Osijek, 65.2%, the University of Dubrovnik, 63.3%, the University of Split, 58.2%, the Catholic University of Croatia, 56.5%, the University of Zadar and the University of Rijeka, with 55.8% of female doctoral students enrolled at each of them, the University of Zagreb, 55.2%, and Libertas International University with 50.0% of female doctoral students enrolled. The lowest share of female doctoral candidates was enrolled at the University of Slavonski Brod, 9.0%.

Majority of doctoral candidates enrolled at the age ranging from 25 to 29

Regarding age, the largest number of all doctoral candidates were classified in the 25 – 29 age group (33.1%) and the smallest one in the 55-and-over age group (3.0%). There were 23.6% of doctoral candidates in the 30 – 34 age group, 15.0% in the 35 – 39 age group, 10.7% in the 40 – 44 age group, 7.3% in the 45 – 49 age group, 2.5% in the under-24 age group, and, finally, 4.8% in the 50 – 54 age group.

Social sciences – the most often chosen field for doctoral studies

According to the scientific field of studies, the most often chosen field for doctoral studies was Social sciences (**24.9%**), followed by Engineering (22.5%), Biomedicine and health (15.9%), Natural sciences (15.3%), Humanities (9.9%), Interdisciplinary fields of science (6.8%), Biotechnical sciences (4.5%) and Artistic field (0.2%).

A total of 5.1% of foreign citizens enrolled on university doctoral studies in the Republic of Croatia

By the country of usual residence, 94.9% of doctoral candidates were the residents of the Republic of Croatia and 5.1% were the residents of other countries, among which the most represented were the residents of Bosnia and Herzegovina and Kosovo, who mostly enrolled on doctoral studies at the University of Zagreb. By citizenship, out of the total number of doctoral candidates, **96.6%** of them, were the citizens of the Republic of Croatia, while 3.4% were foreign citizens. Out of the total number of doctoral candidates who were the citizens of the Republic of Croatia, 93.3% had previously graduated in the Republic of Croatia and 6.4% in other countries.

The largest number of doctoral candidates were employed in Education

Out of the total number of doctoral candidates, 96.9% of them were employed and 3.1% were unemployed. By activities, the largest number of doctoral candidates were employed in Education, as much as 42.2%, followed by those employed in Health and social welfare, 18.0%, in Professional, scientific and technical activities, 14.9%, in Public administration and defence; compulsory social security, 7.2%, in Information and communication, 3.6%, in Manufacturing, 3.1%, in Arts, entertainment and recreation, 2.2%, and in Other service activities, 2.0%, while 6.8% of employed doctoral candidates were employed in other activities.

Doctoral candidates mostly paid the costs of their studies themselves

Out of the total number of doctoral candidates, 50.4% of them paid their doctoral study themselves, 39.4% were supported by the employer, 7.4% were supported from the State Budget and 2.8% belonged to the category Other.

1 STUDENTS ENROLLED ON UNIVERSITY DOCTORAL STUDIES, BY UNIVERSITIES, BY NAME AND LOCATION OF INSTITUTION OF HIGHER EDUCATION, BY SCIENTIFIC AND ARTISTIC FIELDS AND BY SEX, 2023/2024 ACADEMIC YEAR

Faculty of Electrical Engineering and Computing, Zagreb	356	98	-	-	356	98	-	-	-	-	-	-	-	-	-	-	-	-
Faculty of Transport and Traffic Engineering, Zagreb	62	16	-	-	62	16	-	-	-	-	-	-	-	-	-	-	-	-
Faculty of Mining, Geology and Petroleum Engineering, Zagreb	18	9	6	3	12	6	-	-	-	-	-	-	-	-	-	-	-	-
Faculty of Chemical Engineering	138	91	50	40	88	51	-	-	-	-	-	-	-	-	-	-	-	-
Faculty of Textile Technology, Zagreb	40	31	-	-	40	31	-	-	-	-	-	-	-	-	-	-	-	-
Faculty of Medicine, Zagreb	191	109	-	-	-	-	191	109	-	-	-	-	-	-	-	-	-	-
Faculty of Dental Medicine, Zagreb	147	86	-	-	-	-	147	86	-	-	-	-	-	-	-	-	-	-
Faculty of Pharmacy and Biochemistry, Zagreb	106	85	-	-	-	-	106	85	-	-	-	-	-	-	-	-	-	-
Faculty of Veterinary Medicine, Zagreb	37	28	-	-	-	-	37	28	-	-	-	-	-	-	-	-	-	-
Faculty of Food Technology and Biotechnology, Zagreb	17	15	-	-	-	-	-	-	17	15	-	-	-	-	-	-	-	-
Faculty of Agriculture, Zagreb	60	29	-	-	-	-	-	-	60	29	-	-	-	-	-	-	-	-
Faculty of Forestry and Wood Technology, Zagreb	50	18	-	-	-	-	-	-	50	18	-	-	-	-	-	-	-	-
Faculty of Economics and Business, Zagreb	46	33	-	-	-	-	-	-	-	-	46	33	-	-	-	-	-	-
Faculty of Organisation and Informatics, Varaždin	9	5	-	-	-	-	-	-	-	-	9	5	-	-	-	-	-	-
Faculty of Law, Zagreb	237	146	-	-	-	-	-	-	-	-	237	146	-	-	-	-	-	-
Faculty of Political Sciences, Zagreb	28	13	-	-	-	-	-	-	-	-	28	13	-	-	-	-	-	-
Faculty of Humanities and Social Sciences, Zagreb	208	133	-	-	-	-	-	-	-	-	59	49	149	84	-	-	-	-
Faculty of Croatian Studies, Zagreb	61	24	-	-	-	-	-	-	-	-	-	-	47	17	-	-	14	7
Faculty of Education and Rehabilitation Sciences, Zagreb	81	75	-	-	-	-	-	-	-	-	81	75	-	-	-	-	-	-
Faculty of Kinesiology, Zagreb	100	44	-	-	-	-	-	-	-	-	100	44	-	-	-	-	-	-
Faculty of Teacher Education, Zagreb	49	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49	44
Catholic Theological Faculty, Zagreb	12	1	-	-	-	-	-	-	-	-	-	-	12	1	-	-	-	-
Faculty of Philosophy and Religious Studies, Zagreb	14	6	-	-	-	-	-	-	-	-	-	-	14	6	-	-	-	-
Academy of Fine Arts	10	9	-	-	-	-	-	-	-	-	-	-	-	-	10	9	-	-
Catholic University of Croatia, Zagreb	115	65	-	-	-	-	-	-	-	-	61	48	54	17	-	-	-	-
Libertas International University, Zagreb	10	5	-	-	-	-	-	-	-	-	10	5	-	-	-	-	-	-

2 STUDENTS ENROLLED ON UNIVERSITY DOCTORAL STUDIES, BY SCIENTIFIC AND ARTISTIC FIELDS OF DOCTORAL STUDY, BY AGE GROUPS AND SEX, 2023/2024 ACADEMIC YEAR

	Total		Age groups							
	All	Women	Up to 24	25 – 29	30 – 34	35 – 39	40 – 44	45 – 49	50 – 54	55 and over
Total	4 788	2 742	119	1 587	1 129	719	510	350	230	144
Natural sciences	733	443	18	355	185	99	35	20	13	8
Mathematics	71	26	7	50	5	4	5	-	-	-
Physics	127	42	6	71	31	11	5	2	-	1
Geological science	34	22	1	12	8	9	1	3	-	-
Chemistry	164	114	2	90	47	14	8	1	1	1
Biology	190	145	-	76	54	30	10	8	10	2
Geophysics	26	18	-	10	9	5	1	-	-	1
Interdisciplinary natural sciences	121	76	2	46	31	26	5	6	2	3
Engineering	1 080	402	48	426	284	121	78	55	41	27
Architecture and town planning	16	10	-	5	5	3	-	3	-	-
Naval architecture	6	2	-	4	1	-	1	-	-	-
Electrical engineering	254	69	11	118	66	27	12	13	4	3
Geodesy	40	13	2	19	8	2	2	3	3	1
Civil engineering	119	57	2	38	47	5	10	3	5	9
Graphic technology	44	20	-	3	7	12	14	2	5	1
Chemical engineering	96	57	-	40	35	11	4	3	3	-
Metallurgy	4	4	-	2	2	-	-	-	-	-
Computer science	196	62	22	100	35	15	8	11	4	1
Mining, petroleum and geological engineering	12	6	-	5	4	-	2	1	-	-
Mechanical engineering	107	25	5	48	21	14	8	1	7	3
Technology of transport and traffic	102	24	4	24	32	15	8	9	4	6
Textile technology	40	31	-	8	13	9	4	2	2	2
Basic technical sciences	7	1	-	4	2	-	-	-	1	-
Interdisciplinary technical sciences	37	21	2	8	6	8	5	4	3	1
Biomedicine and health	761	493	6	258	209	143	83	41	16	5
Basic medical sciences	102	70	-	44	25	19	9	2	3	-
Clinical medical sciences	390	224	1	120	113	74	49	28	4	1
Public health and health care	29	25	-	6	8	8	-	4	3	-
Veterinary medicine	37	28	-	17	13	3	2	-	2	-
Dental medicine	97	61	4	49	17	14	7	4	1	1
Pharmacy	106	85	1	22	33	25	16	3	3	3
Biotechnical sciences	214	117	4	79	48	26	27	14	8	8
Agronomy	89	43	4	38	13	12	9	5	3	5
Forestry	27	11	-	9	13	1	-	2	1	1
Wood technology	23	7	-	9	7	2	3	1	1	-
Biotechnology	3	3	-	2	-	-	1	-	-	-
Food technology	38	27	-	13	5	6	7	3	3	1
Nutrition	28	24	-	7	8	4	5	3	-	1
Interdisciplinary biotechnical sciences	6	2	-	1	2	1	2	-	-	-
Social sciences	1 191	796	20	237	218	205	188	154	102	67
Economics	275	173	4	44	49	48	48	40	25	17
Law	193	110	1	30	32	30	32	36	19	13
Political science	28	13	-	8	8	4	5	2	-	1
Information and communication sciences	196	146	4	29	36	38	39	27	14	9
Sociology	67	51	2	15	9	7	5	13	10	6
Psychology	66	56	-	23	14	9	13	2	1	4
Pedagogy	36	31	1	9	5	8	6	3	2	2
Education and rehabilitation sciences	81	75	-	23	22	16	8	5	4	3
Kinesiology	106	47	6	42	22	14	9	4	5	4
Social work	68	59	2	8	11	12	6	11	12	6
Interdisciplinary social sciences	75	35	-	6	10	19	17	11	10	2
Humanities	473	257	17	141	116	69	48	36	23	23
Philosophy	60	24	1	17	14	11	10	3	2	2

Theology	16	3	-	6	7	-	2	-	-	1
Philology	145	101	8	45	38	25	12	12	2	3
History	124	42	7	36	30	9	6	13	10	13
History of arts	13	9	-	4	2	4	1	1	-	1
Arheology	37	26	-	11	10	7	4	2	1	2
Ethnology and anthropology	10	7	-	3	3	-	3	-	1	-
Religious sciences (interdisciplinary field)	14	6	-	3	2	2	2	-	4	1
Interdisciplinary humanities	54	39	1	16	10	11	8	5	3	-
Artistic field	10	9	-	2	2	4	2	-	-	-
Fine arts	10	9	-	2	2	4	2	-	-	-
Interdisciplinary fields of science	326	225	6	89	67	52	49	30	27	6
Geography	42	19	1	7	14	9	2	3	4	2
Croatology	14	7	-	9	1	1	1	-	1	1
Educational sciences	183	144	4	36	30	31	37	25	18	2
Biotechnology in biomedicine	50	34	-	25	15	5	4	-	-	1
Other interdisciplinary fields	37	21	1	12	7	6	5	2	4	-

3 STUDENTS ENROLLED ON UNIVERSITY DOCTORAL STUDIES, BY UNIVERSITIES, BY COUNTRY OF USUAL RESIDENCE AND BY SEX, 2023/2024 ACADEMIC YEAR

Country of usual residence	Total		University																							
			Dubrovnik		Osijek		Pula		Rijeka		North		Slavonski Brod		Split		Zadar		Zagreb		Libertas		Catholic University of Croatia			
	All	Women	All	Women	All	Women	All	Women	All	Women	All	Women	All	Women	All	Women	All	Women	All	Women	All	Women	All	Women		
Total	4 788	2 742	30	19	577	376	12	9	493	275	134	109	33	3	383	223	104	58	2 897	1 600	10	5	115	65		
Croatia	4 543	2 627	22	15	547	358	12	9	471	266	134	109	30	3	347	206	100	57	2 759	1 534	10	5	111	65		
Other countries	245	115	8	4	30	18	-	-	22	9	-	-	3	-	36	17	4	1	138	66	-	-	4	-		
Austria	3	2	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-		
Bangladesh	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-		
Botswana	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-		
Bosnia and Herzegovina	132	72	1	-	16	12	-	-	10	5	-	-	-	-	28	15	3	1	72	39	-	-	2	-		
Montenegro	3	3	1	1	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1	1	-	-	-	-		
Chile	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
India	12	2	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	10	2	-	-	-	-		
Iran	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-		
Iceland	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-		
Italy	3	1	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	2	-	-	-	-	-		
South Africa	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-		
Kosovo	30	14	1	1	5	1	-	-	2	1	-	-	-	-	-	-	1	-	21	11	-	-	-	-		
Luxembourg	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	-	-	-	-		
Hungary	2	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-		
Netherlands	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-		
Germany	11	4	1	-	4	3	-	-	1	-	-	-	1	-	1	-	-	-	3	1	-	-	-	-		
Pakistan	2	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-		
Russian Federation	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-		
North Macedonia	1	1	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
United States of America	3	1	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-		
Slovenia	9	2	-	-	-	-	-	-	2	-	-	-	-	-	1	-	-	-	5	2	-	-	1	-		
Serbia	9	5	-	-	1	-	-	-	3	2	-	-	-	-	-	-	-	-	5	3	-	-	-	-		
Sweden	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-		
Switzerland	3	1	1	1	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-		
United Kingdom	5	2	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	3	2	-	-	-	-		

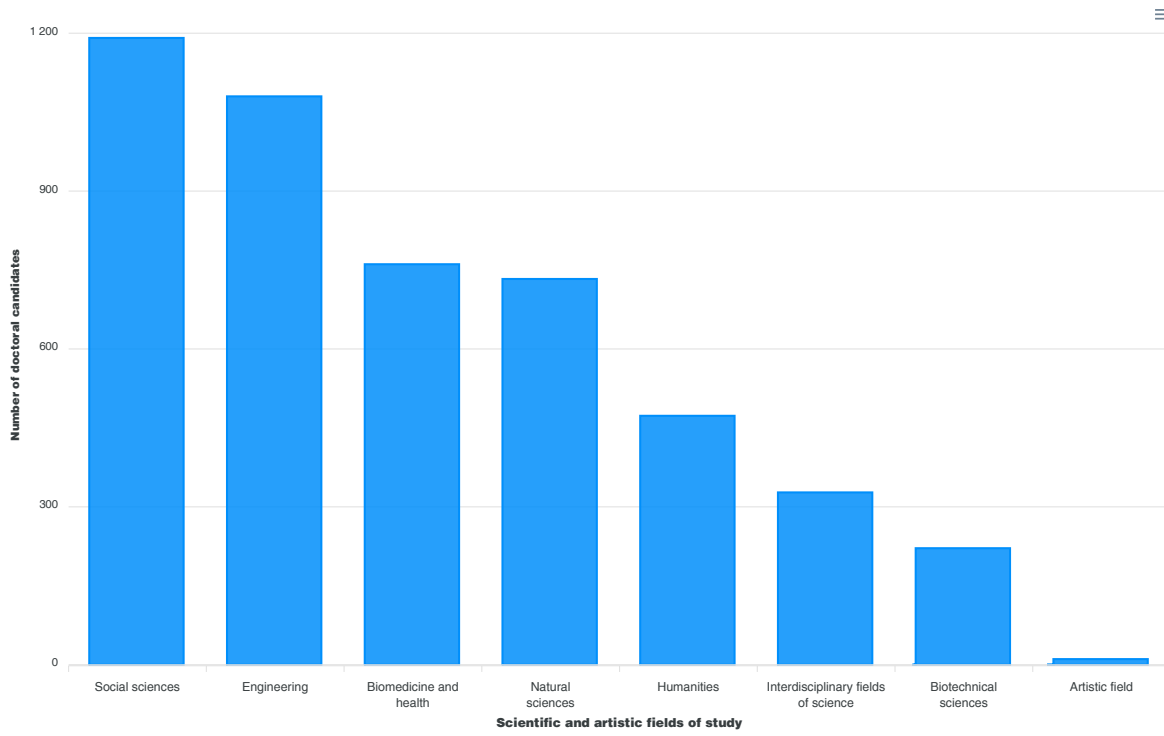
4 STUDENTS ENROLLED ON UNIVERSITY DOCTORAL STUDIES, BY COUNTRY OF GRADUATION, CITIZENSHIP AND SEX, 2023/2024 ACADEMIC YEAR

Country of previous education	Total		Citizenship			
			Croatian		Foreign	
	All	Women	All	Women	All	Women
Total	4 788	2 742	4 624	2 670	164	72
Croatia	4 482	2 592	4 468	2 586	14	6
Other countries	306	150	156	84	150	66
Albania	3	2	-	-	3	2
Austria	4	2	4	2	-	-
Bangladesh	1	-	-	-	1	-
Belgium	2	2	1	1	1	1
Bosnia and Herzegovina	131	70	77	42	54	28
Montenegro	2	2	-	-	2	2
Czech Republic	4	3	2	1	2	2
Chile	1	-	1	-	-	-
Egypt	1	-	-	-	1	-
France	1	-	-	-	1	-
Greece	2	-	1	-	1	-
India	14	3	-	-	14	3
Iran, Islamic Republic of	6	-	2	-	4	-
Island	1	-	-	-	1	-
Italy	19	12	17	12	2	-
South Africa	1	-	-	-	1	-
Canada	3	1	3	1	-	-
Kosovo	23	11	-	-	23	11
Hungary	3	1	1	1	2	-
Nigeria	1	-	-	-	1	-
Germany	12	4	7	3	5	1
Pakistan	2	1	-	-	2	1
Poland	1	-	1	-	-	-
Russian Federation	4	2	1	1	3	1
United States of America	10	7	6	4	4	3
North Macedonia	4	4	1	1	3	3
Slovenia	21	8	15	6	6	2
Serbia	17	9	6	3	11	6
Spain	1	-	1	-	-	-
Sweden	1	-	1	-	-	-
Türkiye	1	-	-	-	1	-
United Arab Emirates	1	1	1	1	-	-
United Kingdom	8	5	7	5	1	-

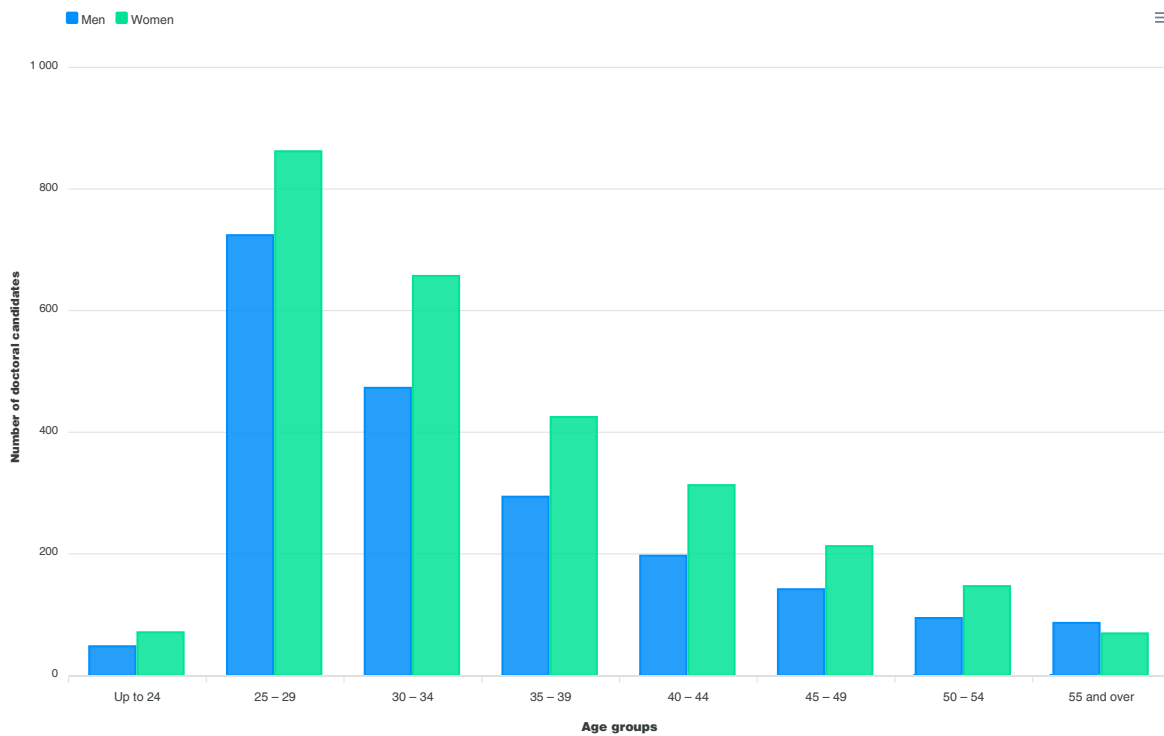
5 STUDENTS ENROLLED ON UNIVERSITY DOCTORAL STUDIES, BY ACTIVITY, BY WAY OF PAYING FOR STUDY AND BY SEX, 2023/2024 ACADEMIC YEAR

	Total		Way of paying for doctoral study			
	All	Women	Employer	State Budget funds	Doctoral candidate	Other
Total	4 788	2 742	1 886	352	2 412	138
Employees	4 638	2 659	1 886	352	2 269	131
Agriculture, forestry and fishing	22	7	6	1	12	3
Mining and quarrying	4	2	2	1	-	1
Manufacturing	144	73	51	5	83	5
Electricity, gas, steam and air conditioning supply	29	8	6	-	21	2
Water supply; sewerage, waste management and remediation activities	18	7	8	-	10	-
Construction	28	13	8	-	19	1
Wholesale and retail trade; repair of motor vehicles and motorcycles	68	36	11	2	53	2
Transportation and storage	36	13	7	2	25	2
Accommodation and food service activities	22	13	7	-	13	2
Information and communication	166	56	61	2	93	10
Financial and insurance activities	49	29	16	-	33	-
Real estate activities	5	2	1	-	4	-
Professional, scientific and technical activities	691	394	364	95	214	18
Administrative and support service activities	21	12	3	1	16	1
Public administration and defence; compulsory social security	332	193	80	2	247	3
Education	1 955	1 135	1 074	231	602	48
Human health and social work activities	837	543	136	7	673	21
Arts, entertainment and recreation	101	62	22	-	76	3
Other service activities	91	49	21	2	60	8
Activities of households as employers; undifferentiated goods- and services-producing activities of households for own use	1	-	-	-	1	-
Activities of extraterritorial organisations and bodies	18	12	2	1	14	1
Unemployed	150	83	-	-	143	7

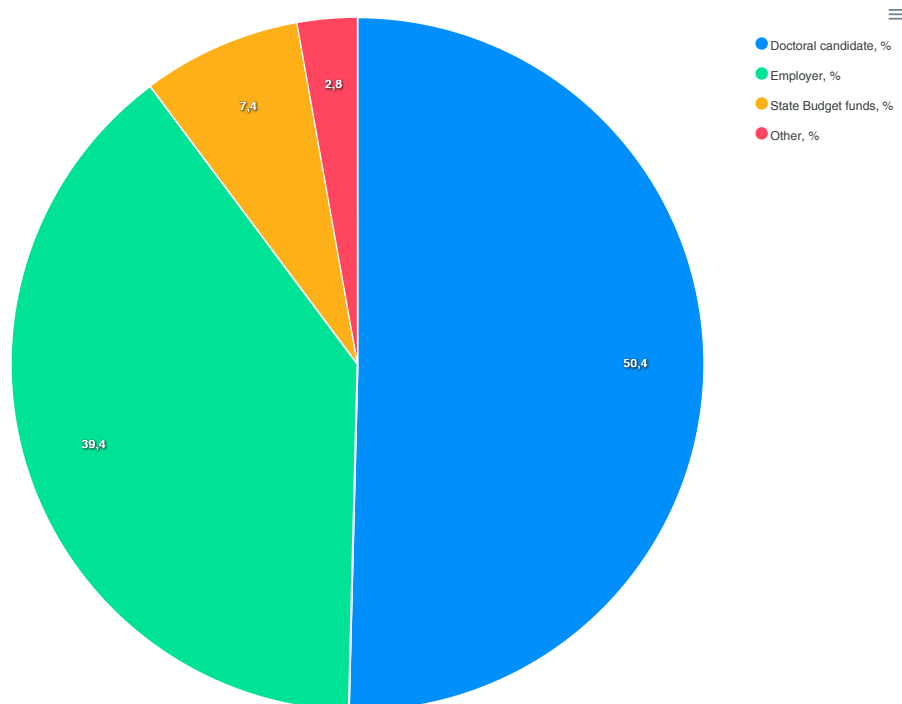
G-1 STUDENTS ENROLLED ON UNIVERSITY DOCTORAL STUDIES, 2023/2024 ACADEMIC YEAR BY SCIENTIFIC AND ARTISTIC FIELDS



G-2 STUDENTS ENROLLED ON UNIVERSITY DOCTORAL STUDIES, 2023/2024 ACADEMIC YEAR BY AGE GROUPS AND SEX



G-3 STUDENTS ENROLLED ON UNIVERSITY DOCTORAL STUDIES, 2023/2024 ACADEMIC YEAR BY WAY OF PAYING FOR DOCTORAL STUDY



NOTES ON METHODOLOGY

Data source

Data are the result of the annual statistical analysis of the Registration Sheets for Doctoral Candidates Enrolled on University Doctoral Study (ŠV-40 form) filled in by doctoral candidates while enrolling on study.

Coverage and comparability

This statistical survey includes all doctoral candidates who enrolled on any year of doctoral study in the 2023/2024 academic year. Data are comparable to those from previous years.

Definitions and explanations

Institution of higher education is any institution of higher education authorised to organise and implement courses of study as well as scientific research or highly professional or artistic work. The institutions of higher education are universities, faculties, art academies and polytechnics. The institutions of higher education may be public and private.

Postgraduate university study can be enrolled on after the completion of a graduate university study and lasts, as a rule, for three years, in accordance with the Act on Higher Education and Scientific Activity (NN, 119/22).

Postgraduate studies are classified according to the Rule Book of Scientific and Artistic Fields (NN, Nos 118/09, 82/12, 32/13 and 34/16).

Abbreviations

NN Narodne novine, official gazette of the Republic of Croatia

Symbols

- no occurrence

Published by the Croatian Bureau of Statistics, Zagreb, Ilica 3, P. O. B. 80

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