



STUDENTS ENROLLED ON UNIVERSITY DOCTORAL STUDIES, 2022/2023 ACADEMIC YEAR

In the 2022/2023 academic year, 4 728 doctoral candidates enrolled on university doctoral studies, which is an increase of 5.4% compared to the previous year.

The highest number of doctoral candidates was enrolled at the University of Zagreb, 63.1%, followed by 11.3% enrolled at the University of Osijek, 10.0% at the University of Rijeka, 6.6% at the University of Split, 2.6% at the University of Zadar, 2.3% at the University North, 2.2% at the Catholic University of Croatia, 0.9% at the University of Dubrovnik, 0.8% at the University of Slavonski Brod 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 2 625 (55.5%). The highest share of female doctoral candidates was enrolled at the University North, 74.8%, followed by the University of Zadar, with 66.1% of female doctoral candidates, the University of Dubrovnik, 61.4%, the Catholic University of Croatia, 60.8%, the University of Osijek, 60.4%, Libertas International University, 54.5%, the University of Zagreb, 54.4%, the University of Split, 53.5%, and the University of Rijeka, 52.9%. The lowest share of female doctoral candidates was enrolled at the University of Slavonski Brod, 10.3%.

Majority of doctoral candidates enrol in the age from 25 to 29

Regarding age, the largest number of all doctoral candidates was classified in the 25 – 29 age group (36.0%) and the smallest one in the 55-and-over age group (2.5%). There were 22.5% of doctoral candidates in the 30 – 34 age group, 15.1% in the 35 – 39 age group, 9.9% in the 40 – 44 age group, 6.9% in the 45 – 49 age group, 2.7% in the under-24 age group, and, finally, 4.4% 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 was Social sciences (24.6%), followed by Engineering (23.7%), Natural sciences (16.2%), Biomedicine and health (15.2%), Humanities (9.0%), Interdisciplinary fields of science (6.2%), Biotechnical sciences (5.0%), and Artistic field (0.1%).

A total of 5.3% of foreign citizens enrolled on university doctoral studies in the Republic of Croatia

By the country of usual residence, 94.7% of doctoral candidates were the residents of the Republic of Croatia and 5.3% 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, 96.1% of them were the citizens of the Republic of Croatia, while 3.9% were foreign citizens. Out of the total number of doctoral candidates who were the citizens of the Republic of Croatia, 93.1% had previously graduated in the Republic of Croatia and 6.9% in other countries.

The largest number of doctoral candidates employed in Education

Out of the total number of doctoral candidates, 96.3% of them were employed and 3.7% were unemployed. By activities, the largest number of doctoral candidates were employed in Education, as much as 42.5%, followed by those employed in Health and social welfare, 17.1%, in Professional, scientific and technical activities, 15.7%, in Public administration and defence; compulsory social security, 7.9%, in Information and communication, 3.6%, in Manufacturing, 2.6%, in Other service activities, 2.1%, in Arts, entertainment and recreation, 1.8%, while 6.7% 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, 47.4% of them paid their doctoral study themselves, 39.1% were supported by the employer, 10.7% were supported from the State Budget and 2.8% belonged to the category Other.

Faculty of Mechanical Engineering and Naval Architecture, Zagreb	60	17	-	-	60	17	-	-	-	-	-	-	-	-	-	-	-	-
Faculty of Electrical Engineering and Computing, Zagreb	369	82	-	-	369	82	-	-	-	-	-	-	-	-	-	-	-	-
Faculty of Transport and Traffic Engineering, Zagreb	59	15	-	-	59	15	-	-	-	-	-	-	-	-	-	-	-	-
Faculty of Mining, Geology and Petroleum Engineering, Zagreb	20	7	6	3	14	4	-	-	-	-	-	-	-	-	-	-	-	-
Faculty of Chemical Engineering	74	53	26	22	48	31	-	-	-	-	-	-	-	-	-	-	-	-
Faculty of Textile Technology, Zagreb	45	36	-	-	45	36	-	-	-	-	-	-	-	-	-	-	-	-
Faculty of Medicine, Zagreb	178	112	-	-	-	-	178	112	-	-	-	-	-	-	-	-	-	-
Faculty of Dental Medicine, Zagreb	142	83	-	-	-	-	142	83	-	-	-	-	-	-	-	-	-	-
Faculty of Pharmacy and Biochemistry, Zagreb	106	80	-	-	-	-	106	80	-	-	-	-	-	-	-	-	-	-
Faculty of Veterinary Medicine, Zagreb	34	26	-	-	-	-	34	26	-	-	-	-	-	-	-	-	-	-
Faculty of Food Technology and Biotechnology, Zagreb	17	14	-	-	-	-	-	-	17	14	-	-	-	-	-	-	-	-
Faculty of Agriculture, Zagreb	74	44	-	-	-	-	-	-	74	44	-	-	-	-	-	-	-	-
Faculty of Forestry and Wood Technology, Zagreb	50	21	-	-	-	-	-	-	50	21	-	-	-	-	-	-	-	-
Faculty of Economics and Business, Zagreb	56	39	-	-	-	-	-	-	-	56	39	-	-	-	-	-	-	-
Faculty of Organisation and Informatics, Varaždin	2	1	-	-	-	-	-	-	-	2	1	-	-	-	-	-	-	-
Faculty of Law, Zagreb	242	141	-	-	-	-	-	-	-	242	141	-	-	-	-	-	-	-
Faculty of Political Sciences, Zagreb	57	27	-	-	-	-	-	-	-	57	27	-	-	-	-	-	-	-
Faculty of Humanities and Social Sciences, Zagreb	224	138	-	-	-	-	-	-	-	62	45	162	93	-	-	-	-	-
Faculty of Croatian Studies, Zagreb	71	30	-	-	-	-	-	-	-	-	-	50	19	-	-	21	11	-
Faculty of Education and Rehabilitation Sciences, Zagreb	75	70	-	-	-	-	-	-	-	75	70	-	-	-	-	-	-	-
Faculty of Kinesiology, Zagreb	54	27	-	-	-	-	-	-	-	54	27	-	-	-	-	-	-	-
Faculty of Teacher Education, Zagreb	36	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	32
Catholic Theological Faculty, Zagreb	19	6	-	-	-	-	-	-	-	-	-	19	6	-	-	-	-	-
Faculty of Philosophy and Religious Studies, Zagreb	12	4	-	-	-	-	-	-	-	-	-	12	4	-	-	-	-	-
Academy of Fine Arts	7	5	-	-	-	-	-	-	-	-	-	-	-	7	5	-	-	-
University of Zagreb	11	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	6
Catholic University of Croatia	102	62	-	-	-	-	-	-	-	59	48	43	14	-	-	-	-	-
Libertas International University	11	6	-	-	-	-	-	-	-	11	6	-	-	-	-	-	-	-

2 STUDENTS ENROLLED ON UNIVERSITY DOCTORAL STUDIES, BY SCIENTIFIC AND ARTISTIC FIELDS OF DOCTORAL STUDY, BY AGE GROUPS AND SEX, 2022/2023 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	4 728	2 625	126	1 704	1 064	716	467	327	206	118
Natural sciences	764	468	25	394	177	103	26	24	10	5
Mathematics	64	25	11	41	4	5	3	-	-	-
Physics	145	48	9	80	31	19	2	2	-	2
Geological science	32	21	-	15	6	8	-	3	-	-
Chemistry	152	112	2	94	36	13	5	2	-	-
Biology	231	171	-	103	61	36	10	12	7	2
Geophysics	27	18	-	10	8	7	1	1	-	-
Interdisciplinary natural sciences	113	73	3	51	31	15	5	4	3	1
Engineering	1 120	369	46	480	251	134	81	52	45	31
Architecture and town planning	38	20	1	8	11	6	4	6	1	1
Naval architecture	7	2	1	4	1	-	1	-	-	-
Electrical engineering	284	71	16	127	71	40	13	8	4	5
Geodesy	44	12	1	21	10	5	1	3	3	-
Civil engineering	105	48	3	39	36	4	7	4	5	7
Graphic technology	48	21	-	5	9	10	13	2	8	1
Chemical engineering	53	35	1	36	8	7	-	1	-	-
Metallurgy	3	1	-	2	1	-	-	-	-	-
Computer science	189	44	14	109	32	12	5	11	4	2
Mining, petroleum and geological engineering	14	4	-	5	6	-	1	1	1	-
Mechanical engineering	135	29	4	73	23	15	10	-	8	2
Technology of transport and traffic	113	23	3	27	27	13	18	10	7	8
Textile technology	45	36	2	12	7	16	4	1	1	2
Aeronautics, rocket and space technology	1	-	-	1	-	-	-	-	-	-
Basic technical sciences	3	-	-	2	-	-	-	-	-	1
Interdisciplinary technical sciences	38	23	-	9	9	6	4	5	3	2
Biomedicine and health	717	462	4	257	195	144	66	30	17	4
Basic medical sciences	122	82	1	58	31	18	6	3	4	1
Clinical medical sciences	277	161	1	87	84	58	31	13	2	1
Public health and health care	28	25	-	8	4	7	2	2	5	-
Veterinary medicine	34	26	-	17	10	3	1	3	-	-
Dental medicine	150	88	1	57	38	33	15	3	3	-
Pharmacy	106	80	1	30	28	25	11	6	3	2
Biotechnical sciences	239	137	6	87	59	36	20	13	9	9
Agronomy	108	56	4	35	29	16	8	6	5	5
Forestry	30	13	-	13	10	2	2	2	-	1
Wood technology	20	8	1	11	4	2	1	1	-	-
Biotechnology	6	6	1	2	2	1	-	-	-	-
Food technology	44	32	-	18	6	6	7	3	3	1
Nutrition	20	17	-	5	5	6	2	1	1	-
Interdisciplinary biotechnical sciences	11	5	-	3	3	3	-	-	-	2
Social sciences	1 164	762	21	258	218	196	189	145	93	44
Economics	321	196	5	63	52	56	59	41	30	15
Law	177	90	8	27	33	23	34	31	15	6
Political science	57	27	-	17	13	7	11	5	1	3
Information and communication sciences	151	105	1	26	26	29	29	22	12	6
Sociology	79	61	1	26	7	8	9	15	9	4
Psychology	58	46	2	22	14	8	7	3	1	1
Pedagogy	59	51	2	16	14	11	8	3	3	2
Education and rehabilitation sciences	75	70	1	21	19	19	6	6	2	1
Kinesiology	63	30	1	31	14	7	4	3	2	1
Social work	71	57	-	4	16	14	11	8	13	5
Interdisciplinary social sciences	53	29	-	5	10	14	11	8	5	-
Humanities	424	227	17	143	105	62	40	27	17	13
Philosophy	63	26	5	21	17	6	7	4	1	2

Theology	26	8	1	6	4	8	5	-	-	2
Philology	123	86	7	45	29	22	9	8	2	1
History	96	34	4	28	30	5	7	6	10	6
History of arts	18	11	-	5	4	4	1	3	1	-
Science of arts	14	11	-	8	2	1	2	-	-	1
Arheology	33	21	-	11	10	7	4	-	1	-
Ethnology and anthropology	11	8	-	4	3	3	-	-	1	-
Religious sciences (interdisciplinary field)	12	4	-	3	2	3	-	2	1	1
Interdisciplinary humanities	28	18	-	12	4	3	5	4	-	-
Artistic field	7	5	-	2	2	2	1	-	-	-
Fine arts	7	5	-	2	2	2	1	-	-	-
Interdisciplinary fields of science	293	195	7	83	57	39	44	36	15	12
Cognitive science	11	6	-	1	2	2	3	-	2	1
Geography	45	20	3	8	12	7	2	7	1	5
Croatology	21	11	1	12	1	2	2	-	-	3
Educational sciences	141	112	-	30	21	23	28	26	11	2
Biotechnology in biomedicine	59	41	3	28	16	4	7	-	-	1
Other interdisciplinary fields	16	5	-	4	5	1	2	3	1	-

3 STUDENTS ENROLLED ON UNIVERSITY DOCTORAL STUDIES, BY UNIVERSITIES, BY COUNTRY OF USUAL RESIDENCE AND BY SEX, 2022/2023 ACADEMIC YEAR

Country of usual residence	Total		University																			
			Dubrovnik		Osijek		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
Total	4 728	2 625	44	27	533	322	471	249	111	83	39	4	310	166	124	82	2 983	1 624	11	6	102	62
Croatia	4 478	2 509	36	22	498	305	455	242	111	83	36	4	284	155	121	81	2 828	1 549	11	6	98	62
Other countries	250	116	8	5	35	17	16	7	-	-	3	-	26	11	3	1	155	75	-	-	4	-
Albania	2	2	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Austria	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Bangladesh	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Belgium	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Botswana	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Bosnia and Herzegovina	124	69	1	-	19	11	6	3	-	-	-	-	21	10	2	1	73	44	-	-	2	-
Brazil	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Bulgaria	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Montenegro	6	4	1	1	-	-	-	-	-	-	-	-	-	-	-	-	5	3	-	-	-	-
Chile	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Greece	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-
India	14	3	-	-	1	-	-	-	-	-	-	-	1	-	-	-	12	3	-	-	-	-
Iran	5	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	2	-	-	-	-
Iceland	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Italy	3	1	-	-	-	-	-	-	-	-	-	-	1	1	-	-	2	-	-	-	-	-
Republic of South Africa	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Canada	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kosovo	34	13	1	1	6	1	-	-	-	-	-	-	-	-	1	-	26	11	-	-	-	-
Luxembourg	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	-	-	-	-
Hungary	4	1	-	-	1	1	-	-	-	-	2	-	-	-	-	-	1	-	-	-	-	-
Mexico	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Norway	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Germany	9	3	1	-	4	3	1	-	-	-	1	-	-	-	-	-	2	-	-	-	-	-
Russian Federation	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
North Macedonia	2	2	-	-	-	-	1	1	-	-	-	-	-	-	-	-	1	1	-	-	-	-
United States of America	5	3	2	2	1	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1	-
Slovenia	7	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	4	2	-	-	1	-
Serbia	6	5	-	-	-	-	1	1	-	-	-	-	-	-	-	-	5	4	-	-	-	-
Sudan	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Spain	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sweden	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Switzerland	3	2	1	1	1	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
United Arab Emirates	5	1	1	-	-	-	1	-	-	-	-	-	-	-	-	-	3	1	-	-	-	-
United Kingdom	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-

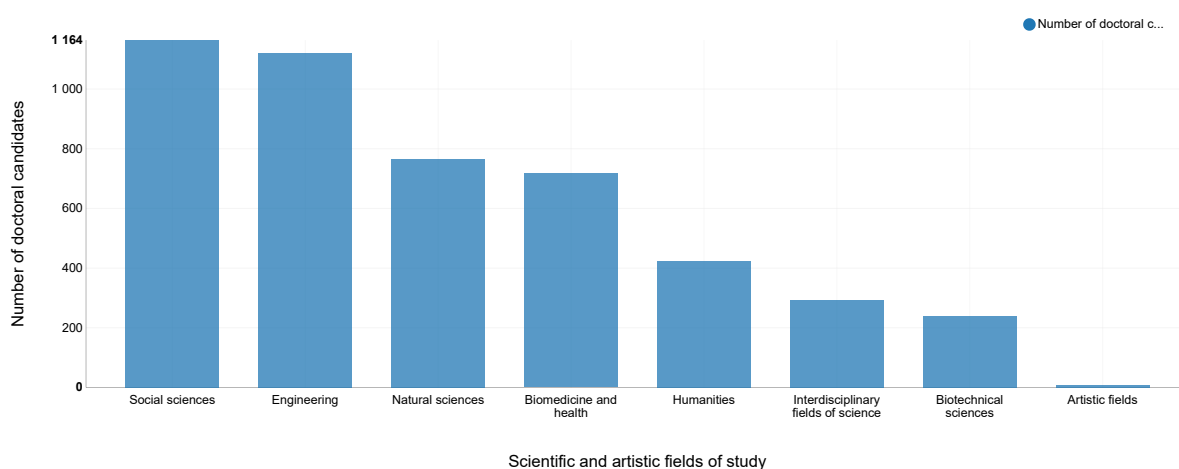
4 STUDENTS ENROLLED ON UNIVERSITY DOCTORAL STUDIES, BY COUNTRY OF GRADUATION, CITIZENSHIP AND SEX, 2022/2023 ACADEMIC YEAR

Country of previous education	Total		Citizenship			
			Croatian		Foreign	
	All	Women	All	Women	All	Women
Total	4 728	2 625	4 542	2 544	186	81
Croatia	4 403	2 461	4 389	2 457	14	4
Other countries	325	164	153	87	172	77
Albania	4	3	-	-	4	3
Australia	1	1	1	1	-	-
Austria	3	2	3	2	-	-
Belgium	3	3	2	2	1	1
Bosnia and Herzegovina	130	70	71	38	59	32
Bulgaria	1	-	1	-	-	-
Montenegro	4	2	-	-	4	2
Czech Republic	3	3	1	1	2	2
Chile	1	-	1	-	-	-
Denmark	2	-	2	-	-	-
Egypt	1	-	-	-	1	-
France	2	1	1	1	1	-
Greece	1	1	-	-	1	1
India	17	4	-	-	17	4
Iran, Islamic Republic of	7	2	-	-	7	2
Island	1	-	-	-	1	-
Italy	27	15	23	15	4	-
Republic of South Africa	1	-	-	-	1	-
Canada	3	1	2	1	1	-
China	1	-	-	-	1	-
Kosovo	30	12	-	-	30	12
Hungary	4	1	-	-	4	1
Mexico	1	-	-	-	1	-
Nigeria	1	-	-	-	1	-
Germany	11	6	5	3	6	3
Pakistan	1	-	-	-	1	-
Russian Federation	2	1	-	-	2	1
United States of America	9	7	5	4	4	3
North Macedonia	5	4	2	2	3	2
Slovenia	15	7	12	5	3	2
Serbia	14	10	5	4	9	6
Sudan	1	-	-	-	1	-
Spain	1	-	1	-	-	-
Sweden	3	1	3	1	-	-
Turkey	1	-	-	-	1	-
United Arab Emirates	1	1	1	1	-	-
United Kingdom	10	5	9	5	1	-
Vatican City	1	-	1	-	-	-
Venezuela	1	1	1	1	-	-

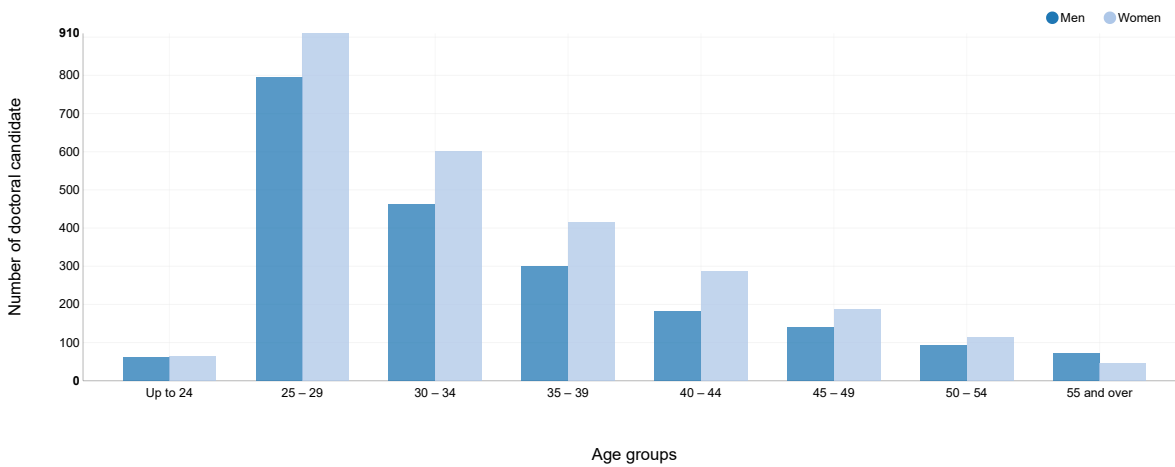
5 STUDENTS ENROLLED ON UNIVERSITY DOCTORAL STUDIES, BY ACTIVITY, BY WAY OF PAYING FOR STUDY AND BY SEX, 2022/2023 ACADEMIC YEAR

	Total		Way of paying for doctoral study			
	All	Women	Employer	State Budget funds	Doctoral candidate	Other
Total	4 728	2 625	1 851	504	2 242	131
Employees	4 554	2 533	1 851	498	2 087	118
Agriculture, forestry and fishing	33	12	10	2	19	2
Mining and quarrying	3	-	1	-	2	-
Manufacturing	119	58	41	4	71	3
Electricity, gas, steam and air conditioning supply	40	10	11	-	28	1
Water supply; sewerage, waste management and remediation activities	16	6	6	-	8	2
Construction	32	13	13	-	18	1
Wholesale and retail trade; repair of motor vehicles and motorcycles	57	33	12	-	43	2
Transportation and storage	23	7	5	-	17	1
Accommodation and food service activities	18	9	6	-	12	-
Information and communication	163	60	52	5	100	6
Financial and insurance activities	38	17	13	-	25	-
Real estate activities	9	4	1	-	8	-
Professional, scientific and technical activities	713	413	358	153	182	20
Administrative and support service activities	22	15	3	2	15	2
Public administration and defence; compulsory social security	361	197	98	1	260	2
Education	1 935	1 061	1 045	317	521	52
Human health and social work activities	778	514	140	12	613	13
Arts, entertainment and recreation	82	51	14	1	61	6
Other service activities	94	41	22	-	68	4
Activities of extraterritorial organisations and bodies	18	12	-	1	16	1
Unemployed	174	92	-	6	155	13

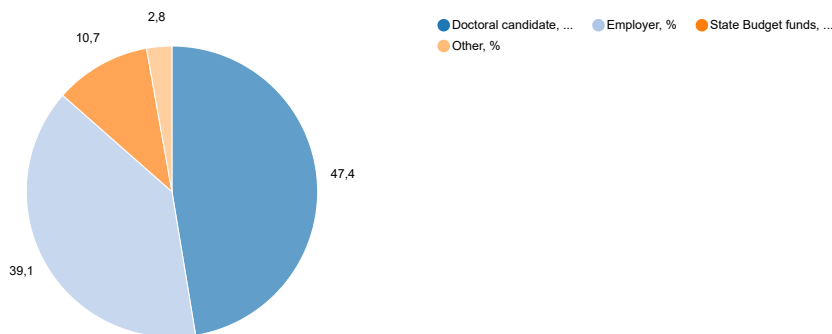
G-1 STUDENTS ENROLLED ON UNIVERSITY DOCTORAL STUDIES, 2022/2023 ACADEMIC YEAR BY SCIENTIFIC AND ARTISTIC FIELDS



G-2 STUDENTS ENROLLED ON UNIVERSITY DOCTORAL STUDIES, 2022/2023 ACADEMIC YEAR BY AGE GROUPS AND SEX



G-3 STUDENTS ENROLLED ON UNIVERSITY DOCTORAL STUDIES, 2022/2023 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 2022/2023 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, No. 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

Persons responsible:
Dubravka Rogić-Hadžalić, Director of Demographic and Social Statistics Directorate
Lidija Brković, Director General

Prepared by:
Marija Gojević, Josipa Jurić and Danijela Kurjaković

USERS ARE KINDLY REQUESTED TO STATE THE SOURCE.

Customer Relations and Data Protection Department

Information and user requests
Phone: (+385 1) 48 06 138, 48 06 154, 48 06 115
E-mail: stat.info@dzs.hr

Subscription
Phone: (+385 1) 21 00 455
E-mail: prodaja@dzs.hr