



STUDENTS ENROLLED ON POSTGRADUATE DOCTORAL STUDIES, 2021/2022 ACADEMIC YEAR

In the 2021/2022 academic year, 4 485 doctoral candidates enrolled on postgraduate university doctoral studies.

The highest number of doctoral candidates was enrolled at the University of Zagreb, 62.7%, followed by 11.4% enrolled at the University of Rijeka, 10.8% at the University of Osijek, 6.8% at the University of Split, 3.2% at the University of Zadar, 2.1% at the Catholic University of Croatia, 2.0% at the University North, and 0.5% (each) at the University of Slavonki Brod and the University of Dubrovnik.

More women than men enrolled on postgraduate university doctoral studies

The share of women in the total number of doctoral candidates was 2 450 (54.6%). The highest share of female doctoral candidates was enrolled at the University North, 69.2%, followed by the University of Zadar, 68.8%, the University of Dubrovnik, 66.7%, the University of Osijek 58.4%, the Catholic University of Croatia, 57.0%, the University of Zagreb, 53.5%, the University of Rijeka, 53.3%, and the University of Split 52.1%. The lowest share of female doctoral candidates was enrolled at the University of Slavonki Brod, 8.3%.

Majority of doctoral candidates enrolled on doctoral studies were aged from 25 to 29

Regarding age, the largest number of all doctoral candidates was classified in the 25 – 29 age group (38.4%) and the smallest one in the 55-and-over age group (1.9%). There were 23.2% of doctoral candidates in the 30 – 34 age group, 13.8% in the 35 – 39 age group, 9.0% in the 40 – 44 age group, 6.5% in the 45 – 49 age group, 3.7% in the under-24 age group, and, finally, 3.5% in the 50 – 54 age group.

Engineering – the most often chosen field for doctoral studies

According to the scientific field of studies, the most often chosen field was Engineering (24.1%), followed by Social sciences (21.6%), Biomedicine and health (17.6%), Natural sciences (17.3%), Humanities (8.6%), Interdisciplinary fields of science (6.2%) and Biotechnical sciences (4.6%).

A total of 4.9% of foreign citizens enrolled on doctoral studies in the Republic of Croatia

By the country of usual residence, 95.1% of doctoral candidates were the residents of the Republic of Croatia and 4.9% 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, 96.5% of them were the citizens of the Republic of Croatia, while 3.5% were foreign citizens. Out of the total number of doctoral candidates who were the citizens of the Republic of Croatia, 93.5% had previously graduated in the Republic of Croatia and 6.5% in other countries.

The largest number of doctoral candidates employed in Education

Out of the total number of doctoral candidates, 96.1% of them were employed and 3.9% were unemployed. By activities, the largest number of doctoral candidates were employed in Education, as much as 43.8%, followed by those employed in Health and social welfare, 18.6%, in Professional, scientific and technical activities, 15.6%, in Public administration and defence; compulsory social security, 6.6%, in Information and communication, 3.3%, in Manufacturing, 2.2%, in Arts, entertainment and recreation, 2.0%, and in Other service activities, 1.8%, while 6.1% 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, 44.7% of them paid their doctoral study themselves, 39.2% were supported by the employer, 13.2% were supported from the State Budget and 2.9% belonged to the category Other.

Faculty of Graphic Art, Zagreb	45	21	-	-	45	21	-	-	-	-	-	-	-	-	-	-
Faculty of Mechanical Engineering and Naval Architecture, Zagreb	81	21	-	-	81	21	-	-	-	-	-	-	-	-	-	-
Faculty of Electrical Engineering and Computing, Zagreb	335	80	-	-	335	80	-	-	-	-	-	-	-	-	-	-
Faculty of Transport and Traffic Engineering, Zagreb	51	15	-	-	51	15	-	-	-	-	-	-	-	-	-	-
Faculty of Mining, Geology and Petroleum Engineering, Zagreb	14	6	4	2	10	4	-	-	-	-	-	-	-	-	-	-
Faculty of Chemical Engineering	75	49	26	19	49	30	-	-	-	-	-	-	-	-	-	-
Faculty of Textile Technology, Zagreb	40	33	-	-	40	33	-	-	-	-	-	-	-	-	-	-
Faculty of Medicine, Zagreb	212	124	-	-	-	-	212	124	-	-	-	-	-	-	-	-
Faculty of Dental Medicine, Zagreb	112	64	-	-	-	-	112	64	-	-	-	-	-	-	-	-
Faculty of Pharmacy and Biochemistry, Zagreb	80	59	-	-	-	-	80	59	-	-	-	-	-	-	-	-
Faculty of Veterinary Medicine, Zagreb	38	28	-	-	-	-	38	28	-	-	-	-	-	-	-	-
Faculty of Food Technology and Biotechnology, Zagreb	29	25	-	-	-	-	-	-	29	25	-	-	-	-	-	-
Faculty of Agriculture, Zagreb	34	15	-	-	-	-	-	-	34	15	-	-	-	-	-	-
Faculty of Forestry, Zagreb	58	20	-	-	-	-	-	-	58	20	-	-	-	-	-	-
Faculty of Economics and Business, Zagreb	29	17	-	-	-	-	-	-	-	29	17	-	-	-	-	-
Faculty of Organisation and Informatics, Varaždin	9	7	-	-	-	-	-	-	-	9	7	-	-	-	-	-
Faculty of Law, Zagreb	147	105	-	-	-	-	-	-	-	147	105	-	-	-	-	-
Faculty of Political Sciences, Zagreb	60	29	-	-	-	-	-	-	-	60	29	-	-	-	-	-
Faculty of Humanities and Social Sciences, Zagreb	219	132	-	-	-	-	-	-	-	94	63	125	69	-	-	-
Faculty of Croatian Studies, Zagreb	65	26	-	-	-	-	-	-	-	-	-	50	18	15	8	-
Faculty of Education and Rehabilitation Sciences, Zagreb	22	20	-	-	-	-	-	-	-	22	20	-	-	-	-	-
Faculty of Kinesiology, Zagreb	110	54	-	-	-	-	-	-	-	110	54	-	-	-	-	-
Faculty of Teacher Education, Zagreb	57	46	-	-	-	-	-	-	-	-	-	-	-	57	46	-
Catholic Theological Faculty, Zagreb	15	7	-	-	-	-	-	-	-	-	-	15	7	-	-	-
Faculty of Philosophy and Religious Studies, Zagreb	8	3	-	-	-	-	-	-	-	-	-	8	3	-	-	-
University of Zagreb	11	6	-	-	-	-	-	-	-	-	-	-	-	11	6	-
Catholic University of Croatia	93	53	-	-	-	-	-	-	-	52	41	41	12	-	-	-

2 STUDENTS ENROLLED ON POSTGRADUATE DOCTORAL STUDIES, BY SCIENTIFIC AND ARTISTIC FIELDS OF DOCTORAL STUDY, BY AGE GROUPS AND SEX, 2021/2022 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	4 485	2 450	168	1 721	1 041	617	404	293	155	86
Natural sciences	774	475	33	408	168	88	36	23	12	6
Mathematics	64	25	8	42	6	8	-	-	-	-
Physics	133	40	8	79	21	18	3	2	2	-
Geological science	32	21	-	14	7	6	4	1	-	-
Chemistry	165	114	8	104	35	8	7	2	-	1
Biology	252	191	8	105	66	31	16	12	10	4
Geophysics	30	20	-	13	8	6	1	2	-	-
Interdisciplinary natural sciences	98	64	1	51	25	11	5	4	-	1
Engineering	1 080	355	74	504	246	98	64	45	30	19
Architecture and town planning	21	10	-	4	6	4	2	2	3	-
Naval architecture	16	4	-	7	6	1	1	1	-	-
Electrical engineering	264	65	20	132	70	22	6	10	2	2
Geodesy	46	14	3	20	14	3	2	3	1	-
Civil engineering	116	48	7	55	30	9	6	2	2	5
Graphic technology	45	21	-	6	11	11	8	5	4	-
Chemical engineering	54	34	3	37	10	2	-	2	-	-
Metallurgy	2	1	1	-	1	-	-	-	-	-
Computer science	192	48	25	109	33	8	7	7	2	1
Mining, petroleum and geological engineering	10	4	-	3	4	3	-	-	-	-
Mechanical engineering	131	28	11	77	20	9	7	-	7	-
Technology of transport and traffic	96	24	2	28	21	9	14	10	5	7
Textile technology	40	33	1	11	9	11	5	-	1	2
Aeronautics, rocket and space technology	2	-	-	1	-	1	-	-	-	-
Basic technical sciences	11	3	-	6	3	-	-	-	2	-
Interdisciplinary technical sciences	34	18	1	8	8	5	6	3	1	2
Biomedicine and health	790	491	9	288	218	148	69	38	17	3
Basic medical sciences	216	148	7	93	52	31	19	6	8	-
Clinical medical sciences	293	154	-	92	99	56	25	16	3	2
Public health and health care	40	30	-	7	11	11	4	6	-	1
Veterinary medicine	38	28	-	19	11	2	2	2	2	-
Dental medicine	123	72	-	47	27	28	13	5	3	-
Pharmacy	80	59	2	30	18	20	6	3	1	-
Biotechnical sciences	208	119	7	77	59	27	16	14	5	3
Agronomy	58	27	4	21	19	5	3	5	1	-
Forestry	35	14	1	12	12	1	5	3	-	1
Wood technology	23	6	-	13	3	3	2	2	-	-
Biotechnology	9	8	1	8	-	-	-	-	-	-
Food technology	54	43	1	21	13	8	5	2	3	1
Nutrition	23	19	-	2	9	8	1	2	1	-
Interdisciplinary biotechnical sciences	6	2	-	-	3	2	-	-	-	1
Social sciences	970	625	24	237	209	157	138	111	65	29
Economics	211	128	2	51	36	45	31	25	14	7
Law	83	49	3	19	11	12	13	14	6	5
Political science	60	29	3	15	16	8	11	4	1	2
Information and communication sciences	149	98	5	33	26	25	29	17	10	4
Sociology	78	54	1	22	16	5	9	14	8	3
Psychology	73	54	4	28	19	9	5	6	-	2
Pedagogy	50	41	-	15	15	7	5	3	5	-
Education and rehabilitation sciences	22	20	-	5	4	8	4	-	1	-
Kinesiology	116	56	6	41	35	16	7	8	2	1
Social work	77	63	-	6	19	13	13	10	13	3
Interdisciplinary social sciences	51	33	-	2	12	9	11	10	5	2
Humanities	384	206	15	125	92	56	45	23	15	13
Philosophy	35	14	-	17	5	5	2	3	2	1

Theology	24	10	-	3	8	6	4	1	-	2
Philology	81	59	5	36	13	12	10	3	1	1
History	97	32	3	24	30	8	9	7	9	7
History of arts	4	1	-	-	2	-	1	1	-	-
Science of arts	8	3	-	4	3	1	-	-	-	-
Arheology	37	20	1	10	8	9	5	2	1	1
Religious sciences (interdisciplinary field)	8	3	1	1	3	1	-	1	1	-
Interdisciplinary humanities	90	64	5	30	20	14	14	5	1	1
Interdisciplinary fields of science	279	179	6	82	49	43	36	39	11	13
Cognitive science	11	6	-	3	-	3	2	-	2	1
Geography	47	21	-	16	10	6	4	6	-	5
Croatology	15	8	3	8	-	-	2	-	-	2
Educational sciences	127	97	1	28	16	23	23	23	9	4
Biotechnology in biomedicine	57	40	2	24	18	9	3	-	-	1
Other interdisciplinary fields	22	7	-	3	5	2	2	10	-	-

3 STUDENTS ENROLLED ON POSTGRADUATE DOCTORAL STUDIES, BY UNIVERSITIES, BY COUNTRY OF USUAL RESIDENCE AND BY SEX, 2021/2022 ACADEMIC YEAR

Country of usual residence	Total		University																			
			Dubrovnik		Osijek		Rijeka		North		Slavonski Brod		Split		Zadar		Zagreb		Catholic University of Croatia			
	All	Women	All	Women	All	Women	All	Women	All	Women	All	Women	All	Women	All	Women	All	Women	All	Women		
Total	4 485	2 450	24	16	486	284	510	272	91	63	24	2	305	159	144	99	2 808	1 502	93	53		
Croatia	4 263	2 341	22	15	453	266	494	266	91	63	21	2	283	150	134	94	2 676	1 432	89	53		
Other countries	222	109	2	1	33	18	16	6	-	-	3	-	22	9	10	5	132	70	4	-		
Austria	3	1	-	-	1	1	-	-	-	-	-	-	-	-	1	-	1	-	-	-		
Bosnia and Herzegovina	110	64	-	-	20	13	7	4	-	-	-	-	17	9	2	1	62	37	2	-		
Brazil	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-		
Montenegro	6	5	-	-	-	-	-	-	-	-	-	-	-	1	1	5	4	-	-	-		
Chile	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-		
France	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-		
India	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	4	1	-	-	-		
Indonesia	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-		
Iran	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-		
Italy	6	2	-	-	1	-	2	1	-	-	-	-	-	-	1	1	2	-	-	-		
Iceland	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-		
Kosovo	35	17	1	1	4	1	1	-	-	-	-	-	-	4	2	25	13	-	-	-		
Hungary	5	1	-	-	1	1	-	-	-	2	-	-	-	-	-	2	-	-	-	-		
Mexico	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-		
Moldova	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-		
Netherlands	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Germany	12	3	1	-	3	1	1	-	-	-	1	-	2	-	-	-	4	2	-	-		
Pakistan	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-		
Russian Federation	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-		
North Macedonia ¹⁾	3	3	-	-	-	-	1	1	-	-	-	-	-	-	-	2	2	-	-	-		
United States of America	3	1	-	-	-	-	2	-	-	-	-	-	-	-	-	1	1	-	-	-		
Slovenia	5	2	-	-	-	-	1	-	-	-	-	-	-	-	-	3	2	1	-	-		
Serbia	5	3	-	-	-	-	-	-	-	-	-	-	-	-	-	4	3	1	-	-		
Spain	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-		
Sweden	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-		
Switzerland	3	1	-	-	1	1	-	-	-	-	-	-	1	-	-	1	-	-	-	-		
Turkey	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-		
United Arab Emirates	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-		
United Kingdom	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-	4	2	-	-	-		

1) As of 15 February 2019, the Republic of Croatia uses the name Republic of North Macedonia in all forms of public communication.

4 STUDENTS ENROLLED ON POSTGRADUATE DOCTORAL STUDIES, BY COUNTRY OF GRADUATION, CITIZENSHIP AND SEX, 2021/2022 ACADEMIC YEAR

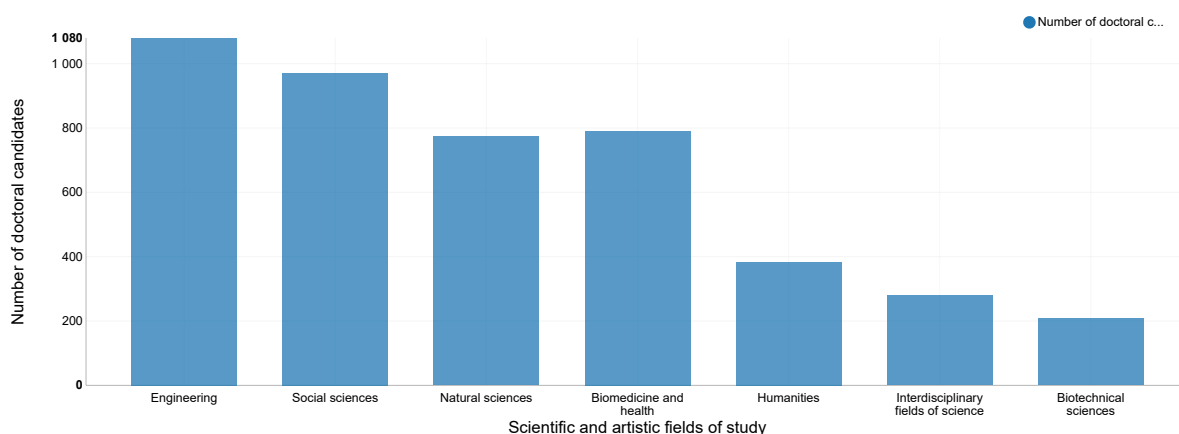
Country of previous education	Total		Citizenship			
			Croatian		Foreign	
	All	Women	All	Women	All	Women
Total	4 485	2 450	4 326	2 378	159	72
Croatia	4 195	2 302	4 183	2 300	12	2
Other countries	290	148	143	78	147	70
Albania	1	-	-	-	1	-
Austria	6	1	4	1	2	-
Belgium	3	3	2	2	1	1
Bosnia and Herzegovina	111	63	66	38	45	25
Brazil	3	1	-	-	3	1
Bulgaria	1	-	1	-	-	-
Montenegro	5	2	-	-	5	2
Czech Republic	3	2	1	-	2	2
Egypt	2	-	1	-	1	-
Philippines	1	-	-	-	1	-
France	4	1	1	1	3	-
Greece	3	2	-	-	3	2
India	5	1	-	-	5	1
Indonesia	1	-	-	-	1	-
Iran, Islamic Republic of	2	-	-	-	2	-
Italy	25	13	16	10	9	3
Island	1	-	-	-	1	-
Canada	3	1	3	1	-	-
Kosovo	28	14	-	-	28	14
Hungary	5	1	1	-	4	1
Mexico	1	-	-	-	1	-
Germany	14	6	9	4	5	2
Pakistan	2	1	-	-	2	1
Poland	2	-	2	-	-	-
Russian Federation	2	1	1	1	1	-
United States of America	7	4	5	3	2	1
North Macedonia ¹⁾	3	3	1	1	2	2
Slovenia	13	7	9	4	4	3
Serbia	13	9	5	4	8	5
Spain	1	1	-	-	1	1
Sweden	2	1	2	1	-	-
Switzerland	2	1	1	-	1	1
Turkey	1	1	-	-	1	1
United Arab Emirates	1	1	1	1	-	-
United Kingdom	12	6	11	6	1	-
Ukraine	1	1	-	-	1	1

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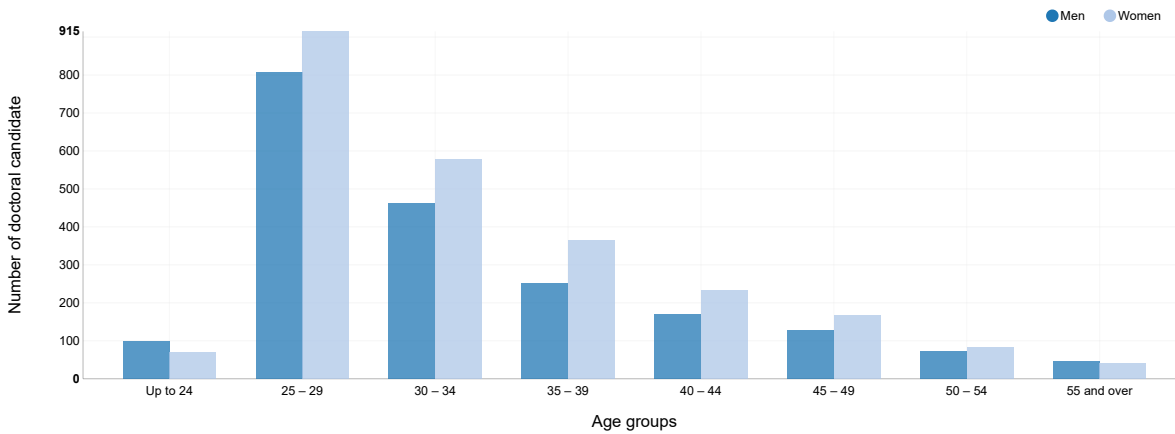
5 STUDENTS ENROLLED ON POSTGRADUATE DOCTORAL STUDIES, BY ACTIVITY, BY WAY OF PAYING FOR STUDY AND BY SEX, 2021/2022 ACADEMIC YEAR

	Total		Way of paying for doctoral study			
	All	Women	Employer	State Budget funds	Doctoral candidate	Other
Total	4 485	2 450	1 760	590	2 004	131
Employees	4 311	2 362	1 760	579	1 859	113
Agriculture, forestry and fishing	12	3	6	1	5	-
Mining and quarrying	2	1	-	1	1	-
Manufacturing	96	45	33	3	56	4
Electricity, gas, steam and air conditioning supply	28	5	5	-	23	-
Water supply; sewerage, waste management and remediation activities	21	13	7	-	13	1
Construction	26	9	13	1	12	-
Wholesale and retail trade; repair of motor vehicles and motorcycles	64	39	11	2	49	2
Transportation and storage	20	7	3	-	16	1
Accommodation and food service activities	20	12	4	-	15	1
Information and communication	142	48	43	3	87	9
Financial and insurance activities	41	20	16	-	25	-
Real estate activities	5	4	-	-	5	-
Professional, scientific and technical activities	671	388	357	157	139	18
Administrative and support service activities	15	7	1	-	13	1
Public administration and defence; compulsory social security	283	159	64	3	212	4
Education	1 887	1 009	1 004	390	445	48
Human health and social work activities	801	501	160	15	613	13
Arts, entertainment and recreation	85	47	11	2	63	9
Other service activities	79	40	20	1	56	2
Activities of extraterritorial organisations and bodies	13	5	2	-	11	-
Unemployed	174	88	-	11	145	18

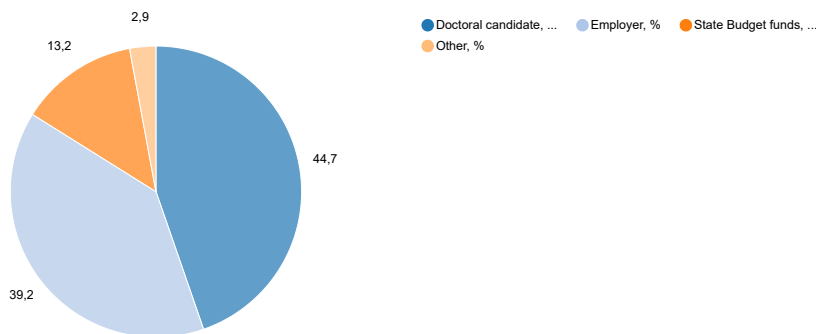
G-1 STUDENTS ENROLLED ON POSTGRADUATE DOCTORAL STUDIES, 2021/2022 ACADEMIC YEAR BY SCIENTIFIC AND ARTISTIC FIELDS



G-2 STUDENTS ENROLLED ON POSTGRADUATE DOCTORAL STUDIES, 2021/2022 ACADEMIC YEAR BY AGE GROUPS AND SEX



G-3 STUDENTS ENROLLED ON POSTGRADUATE DOCTORAL STUDIES, 2021/2022 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 Postgraduate 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 2021/2022 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 and their adjoining faculties and art academies, polytechnics and schools of higher education. The institutions of higher education may be public and private.

Postgraduate university study can be enrolled after the completion of a graduate university study and lasts, as a rule, for three years, in accordance with the Act on Scientific Activity and Higher Education (NN, Nos 123/03, 198/03, 105/04, 174/04, 02/07, 46/07, 45/09, 63/11, 94/13 139/13, 101/14, 60/15 and 131/17).

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

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