

First Release

Year: LIX. Zagreb, 25 March 2022 OBR-2022-4-2

ISSN 1334-0557

DOCTORS OF SCIENCE, 2021

According to the data of the Croatian Bureau of Statistics, a total of 737 persons obtained their degree of doctors of science in 2021. The share of women in that number amounted to 399, that is, 54.1%.

More women than men among doctors of science

Out of the total of 737 doctors of science, 67.2% of them obtained their degree at the University of Zagreb, 11.1% at the University of Split, 9.5% at the University of Osijek, 8.0% at the University of Rijeka, 3.1% at the University of Zadar, 0,5% at the University of Slavonski Brod, 0.4% at the University North, Koprivnica, and 0.1% at both the University of Pula – Pola and the Catholic University of Croatia, Zagreb.

The highest share of female doctors of science obtained their degree at the University North, Koprivnica, 100.0%, followed by the University of Zadar, 78.3%, the University of Osijek, 62.9%, the University of Split, 53.7%, the University of Zagreb, 53.0% and the University of Rijeka, 47.5%.

Biomedicine and health - the most often chosen field of doctoral dissertations

The majority of doctoral dissertations in 2021 were defended in the field of Biomedicine and health (29.6%), followed by the field of Social sciences (19.9%), Engineering (19.0%), Natural sciences (12.5%), Humanities (10.6%), Biotechnical sciences (5.0%) and Interdisciplinary fields of science (2.7%). The smallest number of them were defended in the Artistic field (0.7%).

There were 7.6% of doctors of science who have already obtained a master's degree.

The largest number of doctors of science in the 30 to 34 age group

Regarding age, the largest number of all doctors of science was classified in the 30 – 34 age group (30.1%). There were 8.0% of doctors of science in the up-to-29 age group, 25.9% of doctors of science in the 35 – 39 age group, 16.0% in the 40 – 44 age group, 8.7% in the 45 – 49 age group and 11.3% in the 50-and-over age group.

The largest number of doctors of science employed in Education

The largest number of doctors of science were employed in the following activities: 41.1% in Education, 24.8% in Human health and social welfare, 14.2% in Professional, scientific and technical activities and 5.2% in Public administration and defence; compulsory social security. There were 14.8% of doctors of science employed in other activities, while 3.4% of them were unemployed.

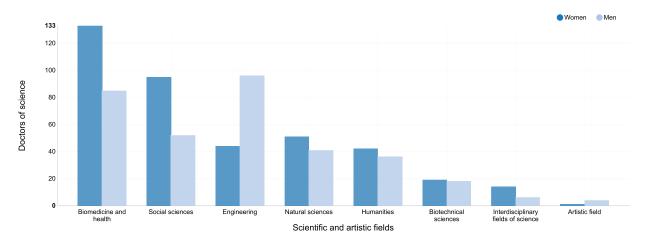
The costs of studies mostly paid by employers

Regarding the costs of postgraduate university studies leading to a doctoral degree, 43.8% of them were paid by employers, 44.0% by doctors of science themselves, the costs for 7.3% of doctors of science were allocated from the State Budget, while the costs of 4.9% of doctors of science belonged to the category Other.

1 DOCTORS OF SCIENCE, BY UNIVERSITIES WHERE THEY OBTAINED DOCTOR'S DEGREE, SCIENTIFIC AND ARTISTIC FIELD OF DOCTORAL DISSERTATION AND SEX, 2021

	Т	otal	Scientific and artistic field of doctoral dissertation											
	All	Women	Natural sciences	Engineering	Biomedicine and health	Biotechnical sciences	Social sciences	Humanities	Artistic field	Interdisciplinary fields of science				
Total	737	399	92	140	218	37	147	78	5	20				
University of Osijek	70	44	2	3	32	8	21	4	-	_				
University of Pula – Pola	1	-	-	-	-	-	1	-	-	-				
University of Rijeka	59	28	-	17	10	-	20	4	-	8				
University North, Koprivnica	3	3	-	-	-	-	3	-	-	-				
University of Slavonski Brod	4	-	-	4	-	-	-	-	-	_				
University of Split	82	44	6	20	35	-	14	6	-	1				
University of Zadar	23	18	-	-	-	-	7	15	-	1				
University of Zagreb	494	262	84	96	141	29	80	49	5	10				
Catholic University of Croatia, Zagreb	1	-	-	-	<u>-</u>	-	1	<u>-</u>	-	-				

G-1 DOCTORS OF SCIENCE, BY SCIENTIFIC AND ARTISTIC FIELD OF DOCTORAL DISSERTATION AND SEX, 2021

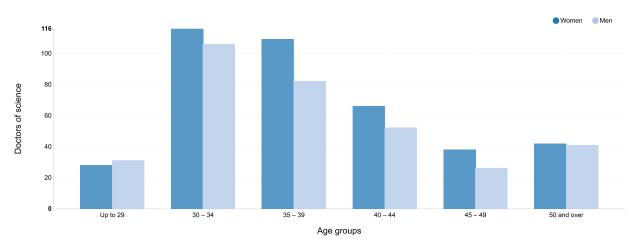


2 DOCTORS OF SCIENCE, BY SCIENTIFIC AND ARTISTIC FIELD OF DOCTORAL DISSERTATION, AGE GROUPS AND SEX, 2021

	Tota	Total			Age gro	oups			
	All	Women	Up to 29	30 – 34	35 – 39	40 – 44	45 – 49	50 and over	
Total	737	399	59	222	191	118	64	83	
Natural sciences	92	51	22	39	21	4	2	4	
Mathematics	14	7	4	8	2	-	-	-	
Physics	15	4	6	6	-	-	2	1	
Geological science	4	1	-	1	1	2	-	-	
Chemistry	25	17	9	8	7	-	-	1	
Biology	23	14	3	10	7	1	-	2	
Geophysics	2	-	-	1	=	1	-	-	
Interdisciplinary natural sciences	9	8	-	5	4	-	-	-	
Engineering	140	44	13	59	35	13	5	15	
Naval architecture	2	2	-	1	1	-	-	-	
Electrical engineering	8	1	-	4	2	-	2	-	
Architecture and town planning	4	2	-	1	-	-	-	3	
Geodesy	4	1	1	1	1	-	-	1	
Civil engineering	7	4	-	6	1	-	-	-	
Graphic technology	10	5	-	1	3	5	=	1	
Chemical engineering	10	5	3	3	2	1	1	-	
Computer science	4	1	-	2	2	-	-	-	
Mining, petroleum and geological engineering	6	5	-	3	1	1	-	1	
Mechanical engineering	35	9	4	18	8	1	-	4	
Technology of transport and traffic	14	2	-	3	5	3	1	2	
Textile technology	3	2	-	-	1	-	-	2	
Basic technical sciences	33	5	5	16	8	2	1	1	
Biomedicine and health	218	133	12	52	57	51	22	24	
Basic medical sciences	38	21	3	12	8	8	5	2	
Clinical medicine	123	73	2	19	38	33	15	16	
Public health and health care	4	3	-	2	2	-	-	-	
Veterinary medicine	14	9	-	4	3	5	-	2	
Dental medicine	24	16	1	12	3	3	1	4	
Pharmacy	15	11	6	3	3	2	1	-	
Biotechnical sciences	37	19	2	15	6	6	5	3	
Agronomy	16	5	-	4	3	4	3	2	
Forestry	6	2	1	4	-	=	1	-	
Wood technology	1	-	=	-	1 -	-	-	-	
Biotechnology	7	6	<u>-</u>	4		2	-	1	
Food technology Nutrition	5 2	4 2	1	2	1	-	1	-	
Social sciences	147	95	3	36	38	28	21	21	
Economics	51	28	1	11	12	11	8	8	
Law	10	7	_	5	2	2	1	٥	
Political science	10	-	=	_	1	<u>-</u>	<u>'</u>	_	
Education and rehabilitation sciences	3	3			2	1		_	
Information and communication	21	13	- -	3	7	5	4	2	
sciences			<u>, </u>						
Sociology	6	3	1	2	2	-	1	-	
Psychology	8	8	-	6	2	-	-	-	
Pedagogy	15 22	13 10	1	6	5	1 5	2	2	
Kinesiology Social work	8	8			1				
Interdisciplinary social sciences	2		-	- 1	- -	2	1	4	
		2	- 2			1		-	
Humanities Philosophy	78 11	42	3	17	30	11	8 <u>-</u>	9	
	5	4	1	4	3	2		1	
Theology	5	2	-	-	2	1	1		

Linguistics	25	15	1	4	11	4	3	2
History	4	-	÷	1	1	÷	=	2
History of arts	6	3	-	3	1	1	1	-
Science of arts	4	2	÷	÷	2	1	=	1
Archaeology	7	5	=	3	2	1	-	1
Ethnology and anthropology	3	2	÷	÷	2	1	=	-
Interdisciplinary humanities	13	9	1	2	6	=	3	1
Artistic field	5	1	=	=	1	3	=	1
Visual arts	5	1	-	=	1	3	=	1
Interdisciplinary fields of science	20	14	4	4	3	2	1	6
Geography	2	1	1	=	-	=	-	1
Croatology	4	2	-	-	-	-	1	3
Educational sciences	6	5	-	1	2	1	=	2
Biotechnology in biomedicine	8	6	3	3	1	1	=	-

G-2 DOCTORS OF SCIENCE, BY AGE GROUPS AND SEX, 2021



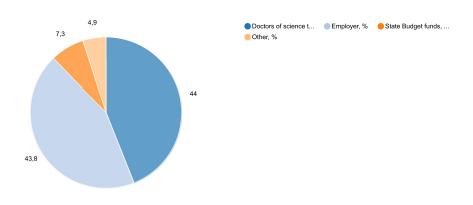
3 DOCTORS OF SCIENCE, BY SCIENTIFIC AND ARTISTIC FIELD OF DOCTORAL DISSERTATION AND MASTER'S THESIS, 2021

Scientific and artistic		Scientific and artistic field of doctoral dissertation									
field of master's thesis	Total	Natural sciences	Engineering	Biomedicine and health	Biotechnical sciences	Socia l sciences	Humanities	Artistic field	Interdisciplinary fields of science		
Total	737	92	140	218	37	147	78	5	20		
Natural sciences	2	1	æ	-	1	-	-	-	-		
Engineering	10	-	9	-	-	-	-	-	1		
Biomedicine and health	10	-	-	9	-	1	-	-	-		
Biotechnical sciences	4	-	-	-	4	-	-	-	=		
Social sciences	24	=	÷	-	-	23	=	-	1		
Humanities	6	-	-	-	=	-	6	-	=		
Not obtained master's degree	681	91	131	209	32	123	72	5	18		

4 DOCTORS OF SCIENCE, BY ACTIVITY OF EMPLOYMENT, BY WAY OF PAYING FOR POSTGRADUATE DOCTORAL STUDY AND BY SEX, 2021

	Tota	al	Way of paying for postgraduate doctoral study					
	All	Women	Employer	State Budget funds	Doctors of science themselves	Other		
Total	737	399	323	54	324	36		
Employees	712	391	318	52	309	33		
Agriculture, forestry and fishing	7	2	2	2	3	_		
Mining and quarrying	2	1	2	-	-	-		
Manufacturing	17	9	6	1	9	1		
Electricity, gas, steam and air conditioning supply	4	2	3	-	1	-		
Water supply; sewerage, waste management and remediation activities	1	1	-	-	1	-		
Construction	3	3	2	1	-	-		
Wholesale and retail trade; repair of motor vehicles and motorcycles	2	-	2	-	-	-		
Transportation and storage	3	-	1	-	2	-		
Accommodation and food service activities	5	3	3	-	2	=		
Information and communication	14	5	6	1	7	-		
Financial and insurance activities	4	1	1	-	3	-		
Professional, scientific and technical activities	105	58	47	24	27	7		
Administrative and support service activities	1	1	-	-	1	-		
Public administration and defence; compulsory social security	38	25	12	-	22	4		
Education	303	158	187	22	84	10		
Human health and social work activities	183	110	39	1	134	9		
Arts, entertainment and recreation	13	9	4	-	9	-		
Other service activities	7	3	1	-	4	2		
Unemployed	25	8	5	2	15	3		

G-3 DOCTORS OF SCIENCE, BY WAY OF PAYING FOR POSTGRADUATE DOCTORAL STUDY, 2021



NOTES ON METHODOLOGY

Sources and methods of data collection

Data are the result of the annual data processing of statistical sheets for doctors of science (ŠV-70 form), which are filled in by doctors of science or doctors of art at obtaining this degree.

Coverage and comparability

The statistical survey covers all schools of higher education in the Republic of Croatia that establish and carry out the postgraduate university study for obtaining a doctoral degree or allow for obtaining a doctoral degree according to 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).

Data are comparable to those from previous years.

Definitions and explanations

Doctor of science is a person who defended a doctoral dissertation.

Institution of higher education is any institution authorised to organise and implement courses of study as well as scientific research, highly professional or artistic work. Institutions of higher education are divided in the following way: university and adjoining faculties and art academies, polytechnic and school of higher education. Institutions of higher education may be public and private.

The postgraduate university study can be enrolled after the completion of a graduate university study.

Postgraduate university study, as a rule, lasts for three years. After fulfilling all conditions and on public defending of a doctoral dissertation, a person obtains an academic degree of the doctor of science (Dr. Sc.) or the doctor of art (Dr. Art) with a reference to the field of study, in line with the Rule Book of Scientific and Artistic Disciplines, Fields and Branches (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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