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## THE ROLE OF HIGHER EDUCATION INSTITUTIONS LAUNCH OF THE HESS PROJECT

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## HEI Missions or Mission?

- You will often hear people speak about the tripartite mission of HEI: **teaching, research, and service.**
- HEI **exist to serve the public.** That is why all public HEI publicly subsidized.
- HEI do not have three missions. They have one: **service to the public.** They **achieve that mission through teaching and research.**

Source: <https://compact.org/an-observation-about-the-mission-of-higher-education/>

## HEI in Portugal

Type	Students enrolled 2017/18	%
Public University	183,192	51.4%
Public Polytechnic	110,142	30.9%
Public Militar	1,206	0.3%
Public TOTAL	294,540	82.6%
Private Polytechnic	17,878	5.0%
Private University	43,972	12.3%
Private TOTAL	61,850	17.4%
TOTAL	356,390	100.0%

<http://www.dgeec.mec.pt/np4/EstatVagasInsc/>



## Public Universities by NUTS II



NUTS II	CRUP	Students
Norte	U Porto	28,400
	U Minho	17,481
	U Trás-os-Montes e Alto Douro	6,236
Centro	U Coimbra	20,233
	U Aveiro	12,782
	U Beira Interior	6,837
Lisboa	U Lisboa	47,989
	U Nova de Lisboa	18,727
	ISCTE – IUL	8,651
	U Aberta	5,427
Alentejo	U Évora	6,596
Algarve	U Algarve	7,529
Madeira	U Madeira	2,634
Açores	U Açores	2,683

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## Public Polytechnics by NUTS II



NUTS II	CCISP	Students	NUTS II	CCISP	Students
Norte	P Porto	17,718	Lisboa	P Lisboa	13,190
	P Bragança	6,782		P Setúbal	5,938
	P Viana do Castelo	4,026		ES Hotelaria e Turismo do Estoril	1,829
	P Cávado e Ave	3,918		ES Enfermagem de Lisboa	1,469
	ES Enfermagem do Porto	1,599		ES Náutica Infante D. Henrique	686
Centro	P Leiria	10,513	Alentejo	P Santarém	3,489
	P Coimbra	10,182		P Beja	2,511
	P Viseu	4,840		P Portalegre	1,871
	P Castelo Branco	3,971			
	P Guarda	2,699			
	ES Enfermagem de Coimbra	1,952			
	P Tomar	1,946			

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## Public HEI by NUTS II

NUTS II	# Univ.	# Poly.	# NI Schools	STDNT Univ.	STDNT Poly.	STDNT TOTAL	PhD Staff	Population
Norte	3	4	1	28.0%	32.5%	29.7%	30.1%	34.8%
Centro	3	2	1	20.1%	35.6%	25.9%	24.8%	21.7%
Lisboa	4	6	3	44.1%	21.0%	35.4%	34.4%	27.5%
Alentejo	1	3	0	3.3%	6.8%	4.6%	5.1%	6.9%
Algarve	1	0	0	2.0%	3.5%	2.6%	3.2%	4.3%
Madeira	1	0	0	1.3%	0.2%	0.9%	1.1%	2.4%
Açores	1	0	0	1.2%	0.4%	0.9%	1.3%	2.5%
Portugal	14	15	5	183,192	110,142	293,334	16,546	10,291,027

<http://www.dgeec.mec.pt/np4/EstatVagasInsc/> and [https://www.ine.pt/xportal/xmain?xpgid=ine\\_main&xpid=INE](https://www.ine.pt/xportal/xmain?xpgid=ine_main&xpid=INE)

## Public HEI by Degree: are they equal?

Degree	Univ. STDNT	Poly. STDNT	TOTAL
Short Cycles (2 yrs)	0.0%	9.3%	3.5%
Undergraduate (3-4 yrs)	42.9%	76.3%	55.4%
Undergraduate (5-6 yrs)	28.3%	0.0%	17.7%
Pos-Graduations (1 yrs)	1.1%	0.9%	1.0%
Masters (1,5-2 yrs)	17.4%	13.5%	15.9%
Doctorates (3 yrs)	10.3%	0.0%	6.4%
TOTAL	183,192	110,142	293,334

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## Degrees by NUTS II: are they equal?

NUTS II	Short Cycles (2 yrs)	Undergraduate (3-4 yrs)	Undergraduate (5-6 yrs)	Pos-Graduat. (1 yrs)	Masters (1,5-2 yrs)	Doctor. (3 yrs)	TOTAL
Norte	29.9%	28.0%	<b>35.3%</b>	14.5%	30.3%	29.5%	29.7%
Centro	<b>44.9%</b>	27.9%	21.8%	20.9%	20.7%	23.5%	25.9%
Lisboa	9.4%	33.3%	40.2%	59.4%	39.8%	<b>40.4%</b>	35.4%
Alentejo	<b>11.1%</b>	5.5%	1.2%	3.2%	4.4%	4.1%	4.6%
Algarve	2.9%	<b>3.2%</b>	0.9%	0.3%	2.8%	1.8%	2.6%
Madeira	<b>1.5%</b>	1.1%	0.1%	1.2%	1.1%	0.4%	0.9%
Açores	0.3%	<b>1.2%</b>	0.4%	0.5%	0.9%	0.3%	0.9%
Portugal	10,290	162,541	51,901	3,048	46,697	18,857	293,334

<http://www.dgeec.mec.pt/np4/EstatVagasInsc/>

## S3 Priorities as Encoded in the "Eye@RIS3" Tool

Priority Name	Norte	Centro	Lisboa	Alentejo	Algarve	Madeira	Açores
Energy					X	X	
Raw materials and materials	X	X					
Production technologies and Process Industries				X			
Automotive, aeronautics and space			X				
Information and Communication Technologies		X	X		X	X	
Transport, Mobility and Logistics	X		X	X			
Agro-food	X	X		X	X	X	X
Forestry		X		X			
Blue growth - Ecosystems and renewable energy resources	X			X	X		
Water and environment			X				
Health	X	X	X		X	X	
Tourism	X		X		X	X	X
Cultural and creative industries	X		X	X	X		
Habitat	X					X	
Blue growth		X	X		X	X	X

<http://s3platform.jrc.ec.europa.eu/regions>

## Public HEI by ISCED: are they equal?

Int. Standard Classification of Education (ISCED)	Univ. STDNT	Poly. STDNT	TOTAL
Education	3.7%	3.6%	3.6%
Arts and Humanities	11.7%	8.8%	10.6%
Social Sciences, Journalism and Information	<b>14.8%</b>	1.5%	9.8%
Business, Administration and Law	14.9%	<b>25.5%</b>	18.9%
Natural Sciences, Mathematics and Statistics	<b>10.9%</b>	0.7%	7.1%
Information and Communication Technologies	2.2%	3.5%	2.7%
Engineering, Manufacturing and Construction	25.2%	23.2%	24.4%
Agriculture, Forestry, Fisheries and Veterinary	2.3%	2.9%	2.5%
Health and Welfare	11.5%	<b>21.2%</b>	15.2%
Services	2.8%	<b>9.2%</b>	5.2%
Unknown	0.1%	0.0%	0.1%
TOTAL	183,192	110,142	293,334

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## ISCED by NUTS II: is it equal?

NUTS II	Edu	A&H	SSc	B&A	Nat. Sci.	ICT	Eng.	Agr.	H&W	Serv.	TOT
Norte	33.5%	28.1%	<b>23.7%</b>	26.2%	26.7%	<b>36.3%</b>	32.9%	30.6%	32.1%	32.8%	29.7%
Centro	23.1%	28.6%	20.7%	26.7%	23.4%	21.8%	25.2%	<b>14.5%</b>	<b>31.4%</b>	27.9%	25.9%
Lisboa	27.4%	34.9%	<b>45.2%</b>	39.2%	39.2%	34.6%	37.6%	<b>23.9%</b>	26.6%	25.8%	35.4%
Alentejo	7.7%	4.9%	4.2%	4.0%	4.1%	3.9%	<b>2.1%</b>	<b>27.0%</b>	5.2%	5.9%	4.6%
Algarve	2.6%	2.0%	2.9%	2.7%	4.2%	<b>0.7%</b>	1.6%	2.3%	2.8%	<b>5.6%</b>	2.6%
Madeira	<b>4.5%</b>	0.9%	1.7%	0.5%	1.1%	1.0%	0.6%	<b>0.1%</b>	0.4%	1.2%	0.9%
Açores	1.2%	<b>0.5%</b>	1.7%	0.8%	1.5%	<b>1.8%</b>	0.2%	1.7%	1.5%	0.9%	0.9%

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## ISCED by NUTS II: is it equal?

NUTS II	Edu	A&H	SSc	B&A	Nat. Sci.	ICT	Eng.	Agr.	H&W	Serv.
Norte	4.1%	10.0%	7.8%	16.7%	6.3%	3.3%	<b>27.1%</b>	2.6%	<b>16.4%</b>	5.7%
Centro	3.2%	<b>11.7%</b>	7.8%	19.4%	6.4%	2.3%	23.8%	1.4%	<b>18.4%</b>	5.6%
Lisboa	2.8%	10.4%	<b>12.5%</b>	<b>20.9%</b>	7.8%	2.7%	25.9%	1.7%	11.4%	3.8%
Alentejo	6.0%	11.3%	8.8%	16.5%	6.3%	2.3%	10.8%	<b>14.5%</b>	<b>17.0%</b>	6.5%
Algarve	3.7%	8.4%	10.9%	19.8%	<b>11.5%</b>	0.7%	15.0%	2.2%	16.6%	<b>11.2%</b>
Madeira	<b>18.0%</b>	11.9%	<b>18.7%</b>	10.0%	8.4%	2.9%	16.1%	0.3%	6.8%	6.9%
Açores	4.9%	5.9%	<b>18.2%</b>	15.8%	11.6%	5.3%	4.1%	4.6%	<b>24.5%</b>	5.2%
Portugal	3.6%	10.6%	9.8%	18.9%	7.1%	2.7%	24.4%	2.5%	15.2%	5.2%

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