

OECD THEMATIC REVIEW OF TERTIARY EDUCATION

COUNTRY BACKGROUND REPORT FOR PORTUGAL

ANNEXES

The Ministry of Science, Technology and Higher Education

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Annex A

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Annex B – List of Higher Education Institutions

1 Public institutions

1.1 University education

1.1.1 Universities¹

- Universidade Aberta
- Universidade dos Açores
- Universidade do Algarve
- Universidade de Aveiro
- Universidade da Beira Interior
- Universidade de Coimbra
- Universidade de Évora
- Universidade de Lisboa
- Universidade Nova de Lisboa
- Universidade Técnica de Lisboa
- Universidade da Madeira
- Universidade do Minho
- Universidade do Porto
- Universidade de Trás-os-Montes e Alto Douro

1.1.2 University institutions non integrated in universities

- Instituto Superior de Ciências do Trabalho e da Empresa
- Academia da Força Aérea
- Academia Militar
- Escola Naval
- Instituto Superior de Ciências Policiais e Segurança Interna

1.2 Polytechnic education

1.2.1 Polytechnic institutes

- Instituto Politécnico de Beja
- Instituto Politécnico de Bragança
- Instituto Politécnico de Castelo Branco
- Instituto Politécnico do Cávado e do Ave
- Instituto Politécnico de Coimbra
- Instituto Politécnico da Guarda
- Instituto Politécnico de Leiria
- Instituto Politécnico de Lisboa
- Instituto Politécnico de Portalegre
- Instituto Politécnico do Porto
- Instituto Politécnico de Santarém
- Instituto Politécnico de Setúbal
- Instituto Politécnico de Tomar
- Instituto Politécnico de Viana do Castelo
- Instituto Politécnico de Viseu

1.2.2 Polytechnic schools non integrated in polytechnic institutes

- Fusion into one single school (Escola Superior de Enfermagem de Coimbra) in progress
 - Escola Superior de Enfermagem de Bissaya Barreto
 - Escola Superior de Enfermagem do Dr. Ângelo da Fonseca
- Fusion into one single school (Escola Superior de Enfermagem de Lisboa) in progress

¹ Some universities integrate polytechnic schools.

Escola Superior de Enfermagem de Artur Ravara
 Escola Superior de Enfermagem de Maria Fernanda Resende
 Escola Superior de Enfermagem de Francisco Gentil
 Escola Superior de Enfermagem de Calouste Gulbenkian de Lisboa
 Fusion into one single school (Escola Superior de Enfermagem do Porto) in progress
 Escola Superior de Enfermagem Cidade do Porto
 Escola Superior de Enfermagem de São João
 Escola Superior de Enfermagem de D. Ana Guedes
 Escola Náutica Infante D. Henrique
 Escola Superior de Hotelaria e Turismo do Estoril
 Escola Superior Politécnica do Exército
 Escola Superior de Tecnologias Navais
 Escola do Serviço de Saúde Militar
 Instituto Militar dos Pupilos do Exército - Secção de Ensino Superior

2. Private institutions

2.1 University education

2.1.1 Universities

Universidade Atlântica
 Universidade Autónoma de Lisboa Luís de Camões
 Universidade Fernando Pessoa
 Universidade Independente
 Universidade Internacional
 Universidade Internacional da Figueira da Foz
 Universidade Lusíada de Lisboa
 Universidade Lusíada do Porto
 Universidade Lusíada de Vila Nova de Famalicão
 Universidade Lusófona de Humanidades e Tecnologias
 Universidade Lusófona do Porto
 Universidade Moderna de Lisboa
 Universidade Portucalense Infante D. Henrique
 Universidade Católica Portuguesa

2.1.2 University institutions non integrated in universities

DINENSINO - Ensino, Desenvolvimento e Cooperação, CRL (Beja)
 DINENSINO - Ensino, Desenvolvimento e Cooperação, CRL (Setúbal)
 Escola Superior de Actividades Imobiliárias
 Escola Superior Artística do Porto
 Escola Superior de Design
 Escola Superior Gallaecia
 Escola Superior de Marketing e Publicidade
 Escola Universitária das Artes de Coimbra
 Escola Universitária Vasco da Gama
 Instituto Superior Bissaya Barreto
 Instituto Superior de Ciências da Saúde Egas Moniz
 Instituto Superior de Ciências da Saúde - Norte
 Instituto Superior de Comunicação Empresarial
 Instituto Superior D. Afonso III
 Instituto Superior de Educação e Trabalho
 Instituto Superior de Estudos Interculturais e Transdisciplinares - Almada
 Instituto Superior de Estudos Interculturais e Transdisciplinares - Mirandela

- Instituto Superior de Estudos Interculturais e Transdisciplinares - Santo André
- Instituto Superior de Estudos Interculturais e Transdisciplinares - Viseu
- Instituto Superior de Gestão
- Instituto Superior de Informática e Gestão
- Instituto Superior de Línguas e Administração de Bragança
- Instituto Superior de Línguas e Administração de Leiria
- Instituto Superior de Línguas e Administração de Lisboa
- Instituto Superior de Línguas e Administração de Santarém
- Instituto Superior de Línguas e Administração de Vila Nova de Gaia
- Instituto Superior da Maia
- Instituto Superior Manuel Teixeira Gomes
- Instituto Superior Miguel Torga
- Instituto Superior de Novas Profissões
- Instituto Superior de Psicologia Aplicada
- Instituto Superior de Serviço Social de Lisboa (in progress the integration in Universidade Lusíada)
- Instituto Superior de Serviço Social de Lisboa (Beja's extension)
- Instituto Superior de Serviço Social do Porto
- 2.2 Polytechnic education
 - 2.2.1 Polytechnic institutes
 - Instituto Politécnico de Saúde do Norte
 - Instituto Superior Politécnico Gaya
 - 2.2.2 Polytechnic schools non integrated in polytechnic institutes
 - Academia Nacional Superior de Orquestra
 - Conservatório Superior de Música de Gaia
 - Escola Superior de Artes Decorativas
 - Escola Superior de Artes e Design
 - Escola Superior Artística do Porto (Guimarães's extension)
 - Escola Superior de Educação de Almeida Garrett
 - Escola Superior de Educação de Fafe
 - Escola Superior de Educação Jean Piaget de Almada
 - Escola Superior de Educação Jean Piaget de Arcozelo
 - Escola Superior de Educação Jean Piaget de Arcozelo (Viseu's extension)
 - Escola Superior de Educação Jean Piaget - Nordeste
 - Escola Superior de Educação de João de Deus
 - Escola Superior de Educação de Paula Frassinetti
 - Escola Superior de Educação de Santa Maria
 - Escola Superior de Educação de Torres Novas
 - Escola Superior de Educadores de Infância Maria Ulrich
 - Escola Superior de Enfermagem da Cruz Vermelha Portuguesa de Oliveira de Azeméis
 - Escola Superior de Enfermagem Dr. José Timóteo Montalvão Machado
 - Escola Superior de Enfermagem da Imaculada Conceição
 - Escola Superior de Enfermagem S. Francisco das Misericórdias
 - Escola Superior de Enfermagem de S. José de Cluny
 - Escola Superior de Enfermagem de S. Vicente de Paulo
 - Escola Superior de Enfermagem de Santa Maria
 - Escola Superior de Saúde do Alcoitão
 - Escola Superior de Saúde da Cruz Vermelha Portuguesa
 - Escola Superior de Saúde Egas Moniz
 - Escola Superior de Saúde Jean Piaget - Algarve

Escola Superior de Saúde Jean Piaget de Vila Nova de Gaia
Escola Superior de Saúde Jean Piaget de Viseu
Escola Superior de Saúde Jean Piaget/Nordeste
Escola Superior de Saúde Ribeiro Sanches
Escola Superior de Tecnologias e Artes de Lisboa
Escola Superior de Tecnologias de Fafe
Instituto de Estudos Superiores Financeiros e Fiscais
Instituto Português de Administração de Marketing de Lisboa
Instituto Português de Administração de Marketing de Matosinhos
Instituto Português de Administração de Marketing de Matosinhos (Aveiro's extension)
Instituto Superior de Administração e Gestão
Instituto Superior de Administração e Línguas
Instituto Superior Autónomo de Estudos Politécnicos
Instituto Superior de Ciências da Administração
Instituto Superior de Ciências Educativas
Instituto Superior de Ciências Educativas de Felgueiras
Instituto Superior de Ciências Educativas de Mangualde
Instituto Superior de Ciências Empresariais e do Turismo
Instituto Superior de Ciências da Informação e da Administração
Instituto Superior D. Dinis
Instituto Superior de Educação e Ciências
Instituto Superior de Entre Douro e Vouga
Instituto Superior de Espinho
Instituto Superior de Gestão Bancária
Instituto Superior de Matemática e Gestão (Fundão)
Instituto Superior de Paços de Brandão
Instituto Superior Politécnico Internacional
Instituto Superior Politécnico do Oeste
Instituto Superior de Saúde do Alto Ave
Instituto Superior de Tecnologias Avançadas de Lisboa
Instituto Superior de Tecnologias Avançadas de Lisboa (Porto's extension)

Annex C - Student enrolments

Table 1 — Number of overall (public and private systems) new entrants, total students and new graduates for different fields of study (graduate and post-graduate degree programmes): 1995/96 to 2004/05

Field of Study	Total Registrations			Registrations 1 st year/1 st time			Graduations		
	1995/96	2004/05	2005/06	1995/96	2004/05	2005/06	1995/96	2003/04	2004/05
	Education	30 290	32 928	26 277	8 765	8 293	7 185	6 131	12 166
Arts & Humanities	28 627	32 658	31 553	6 961	7 738	8 199	4 270	6 037	6 144
Social Sciences, Law	125 499	119 339	116 262	32 133	26 320	25 565	15 361	19 664	19 638
Science & Technology	87 502	111 999	107 430	22 085	20 331	19 098	7 200	14 000	14 696
Agriculture	8 974	7 585	7 045	2 014	1 061	1 024	834	1 331	1 359
Health Sciences	21 708	55 201	58 823	5 516	15 937	16 899	4 101	11 643	13 528
Services	10 835	20 842	20 544	3 629	4 657	4 720	1 319	3 827	4 412
Total	313 435	380 552	367 934	81 103	84 337	82 690	39 216	68 668	70 023

Source: OCES, 2006

Table 2 — Total registrations, new entrants and graduations per type of system (public vs private)

System	Total registrations					New entrants: 1st year; 1st time					Graduations			
	2001/02	2002/03	2003/04	2004/05	2005/06	2001/02	2002/03	2003/04	2004/05	2005/06	2001/02	2002/03	2003/04	2004/05
Public	284789	290532	288309	282273	275961	65921	67640	64801	63365	63700	42200	46499	46854	49220
Private	111812	110299	106754	98664	91973	26915	26806	24468	20998	18990	21898	22012	21814	20803
Total	396601	400831	395063	380552	367934	92836	94446	89269	84363	82690	64098	68511	68668	70023

Source: OCES

Table 3 — Total new entrants and graduations in higher education per system and area of study

Field of study	New entrants: 1st year; 1st time (%)				Graduations (%)			
	2005-2006				2004-2005			
	Public Universities	Public Polytechnics	Private	Total	Public Universities	Public Polytechnics	Private	Total
Agriculture	1	2	1	1	3	2	0	2
Arts & Humanities	12	8	7	9	12	6	7	9
Social sciences & Managem.	32	23	36	31	26	25	35	28
Science & Technology	31	19	9	24	31	20	10	21
Education	8	8	10	10	15	12	17	15
Health sciences	9	33	32	20	7	27	26	19
Services	6	8	4	6	6	8	5	6
Total	100	100	100	100	100	100	100	100

Source: OCES, 2006

Table 4 – Public Universities: number of graduation degrees awarded (“Bachaleratos” and “Licenciaturas”) and post-graduate diplomas (non-degree specializations, master degrees, and doctorate degrees) for 2002/03 – 2004/05

Institutions	2002-2003					2003-2004					2004-2005				
	Bacharelatos Licenciaturas Compl Form	Especializ	Mestres (Master)	Doutor (PhD)	TOTAL	Bacharelatos Licenciaturas Compl Form	Especializ	Mestres (Master)	Doutor (PhD)	TOTAL	Bacharelatos Licenciaturas Compl Form	Especializ	Mestres (Master)	Doutor (PhD)	TOTAL
TOTAL	21 791	1 112	2 543	822	26 268	21 765	1 249	2 673	868	26 555	22 267	1 419	2 738	972	27 396
UNIVERSIDADE DOS AÇORES	603	29	45	8	685	565	0	43	0	608	663	0	54	0	717
UNIVERSIDADE DO ALGARVE	1 610	0	70	13	1 693	1 751	57	62	29	1 899	1 577	47	37	21	1 682
UNIVERSIDADE DE AVEIRO	1 295	0	139	44	1 478	1 450	75	152	50	1 727	1 484	48	230	65	1 827
UNIVERSIDADE DA BEIRA INTERIOR	480	11	18	19	528	538	42	48	17	645	560	0	45	27	632
UNIVERSIDADE DE COIMBRA	2 655	72	267	93	3 087	2 437	53	265	69	2 824	2 237	49	121	64	2 471
UNIVERSIDADE DE ÉVORA	875	44	54	27	1 000	800	16	73	27	916	935	53	76	34	1 098
UNIVERSIDADE DE LISBOA	2 477	194	377	106	3 154	2 473	181	377	123	3 154	2 621	229	394	123	3 367
UNIVERSIDADE TÉCNICA DE LISBOA	2 254	354	348	143	3 099	2 255	362	368	129	3 114	2 265	356	394	146	3 161
UNIVERSIDADE NOVA DE LISBOA	1 326	116	197	93	1 732	1 476	86	183	107	1 852	1 785	103	251	123	2 262
UNIVERSIDADE DO MINHO	2 305	173	243	81	2 802	2 200	153	289	82	2 724	2 253	221	269	93	2 836
UNIVERSIDADE DO PORTO	2 756	117	436	130	3 439	2 908	217	472	150	3 747	3 188	228	564	186	4 166
UNIVERSIDADE TRAS-OS-MONTES E ALTO DOUR	1 232	0	48	24	1 304	1 204	0	54	32	1 290	1 105	20	68	37	1 230
UNIVERSIDADE DA MADEIRA	455	0	0	5	460	488	0	11	12	511	409	0	0	7	416
UNIVERSIDADE ABERTA	842	0	161	9	1 012	592	0	144	9	745	432	44	93	13	582
INST SUP DE CIÊNCIAS DO TRABALHO E DA EMPR	626	2	140	27	795	628	7	132	32	799	753	21	142	33	949

Source: OCES, 2006

Table 5 — Evolution of the number of graduates (undergraduate and post-graduate) from Public Polytechnics: number of graduation degrees awarded (“Bachaleratos” and “licenciaturas”) for 2001/02 – 2003/04

Institutions	2001-2002	2002-2003	2003-2004
TOTAL	17 973	19 843	19 943
INST POLITÉCNICO DE BEJA	818	840	716
INST POLITÉCNICO DO CAVADO E DO AVE	173	228	286
INST POLITÉCNICO DE BRAGANÇA	839	954	978
INST POLITÉCNICO DE CASTELO BRANCO	939	900	880
INST POLITÉCNICO DE COIMBRA	1 613	1 819	1 887
INST POLITÉCNICO DA GUARDA	968	834	784
INST POLITÉCNICO DE LEIRIA	1 238	1 591	1 418
INST POLITÉCNICO DE LISBOA	2 345	2 582	2 589
INST POLITÉCNICO DE PORTALEGRE	655	754	832
INST POLITÉCNICO DO PORTO	2 369	2 547	2 769
INST POLITÉCNICO DE SANTARÉM	824	992	898
INST POLITÉCNICO DE TOMAR	580	594	711
INST POLITÉCNICO DE SETÚBAL	940	1 076	1 032
INST POLITÉCNICO DE VIANA DO CASTELO	756	859	910
INST POLITÉCNICO DE VISEU	1 136	1 310	1 397
ESC SUP DE ENFERMAGEM DE BISSAYA BARRETO	284	343	308
ESC SUP DE ENFERMAGEM DR. ÂNGELO DA FONSECA	155	358	340
ESC SUP DE ENFERMAGEM DE ARTUR RAVARA	166	152	70
ESC SUP DE ENFERMAGEM DE MARIA FERNANDA RESENDE	140	167	142
ESC SUP DE ENFERMAGEM DE FRANCISCO GENTIL	114	95	113
ESC SUP DE ENFERMAGEM DE CALOUSTE GULBENKIAN DE LISBOA	187	157	119
ESC SUP DE ENFERMAGEM CIDADE DO PORTO	157	156	163
ESC SUP DE ENFERMAGEM DE SÃO JOÃO	352	258	296
ESC SUP DE ENFERMAGEM DE D. ANA GUEDES	96	120	97
ESC SUP HOTELARIA E TURISMO DO ESTORIL	129	157	208

Table 6 – Enrolments in public universities (master degrees, “Mestrado”)

	Enrolments in 31st December																
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	
Public	3 015	3 906	4 485	4 550	5 088	5 231	5 607	6 173	6 590	7 448	7 315	7 380	9 226	9 388	9 752	9 888	
Private	222	406	612	737	837	908	1 059	1 275	1 251	1 277	1 377	1 165	1 298	1 718	1 670	2 119	
Total	3 237	4 312	5 097	5 287	5 925	6 139	6 666	7 448	7 841	8 725	8 692	8 545	10 524	11 106	11 422	12 007	

Source: OCES, 2006

Table 7 – Percentage of advanced training students enrolled in Portuguese public higher education institutions in 2005-2006

	Undergraduates (‘Licenciatura’ and ‘Bacharelato’)	Advanced training students (‘Mestrado’)	Percentage of postgraduate students
U. Algarve	8.380	338	4
U. Aveiro	10.288	731	7
U.B.I.	5.096	140	3
U. Coimbra	17.389	1.484	8
U. Évora	7.033	533	7
U. Lisboa	16.791	1.587	9
U. Minho	13.796	921	6
U.N.L.	12.338	1.252	9
U.T.L.	18.493	2.202	11
U. Porto	21.839	2.607	11
UTAD	6.322	283	4
ISCTE	5.109	750	13
U. Azores	2.731	90	3
U. Madeira	2.484	48	2
SUB-TOTAL Universities	148.089	12.966	8
Other: Polytechnics	91.496	486	1
TOTAL	239.585	13.452	5

Table 8 – Students completing Masters (a)

	2001/02	2002/03	2003/04	2004/05
Public	1 987	2 543	2 673	2 738
Private	339	342	395	414
Total	2 326	2 885	3 068	3 152

Source: OCES, 2006

(a) – The series was revised in 2006.

The next Table lists the number of doctoral degrees awarded during the last three decades, and their relative increase over recent years is a measure of the level of resources being dedicated to research and graduate training. Public universities have awarded 71% of all degrees, 28% being awarded by foreign universities and the remaining 2% by Portuguese private institutions. From the total number of 12,849 Ph.D. degrees awarded since 1970, there are 11,316 Ph.D. holders in the academic staff of higher education institutions.

Table 9 – Number of PhDs awarded by Portuguese and foreign universities (a)

	1970-9	1980-9	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	Total
Portugal	293	1 247	250	223	245	378	320	434	459	470	482	576	694	703	801	837	926	1058	10 396
Abroad	477	818	87	96	106	115	133	137	149	120	236	196	166	203	183	188	154	119	3 683
Total	770	2 065	337	319	351	493	453	571	608	590	718	772	860	906	984	1 025	1 080	1 177	14 079

Source: OCES, 2006.

(a) – The series was revised in 2006.

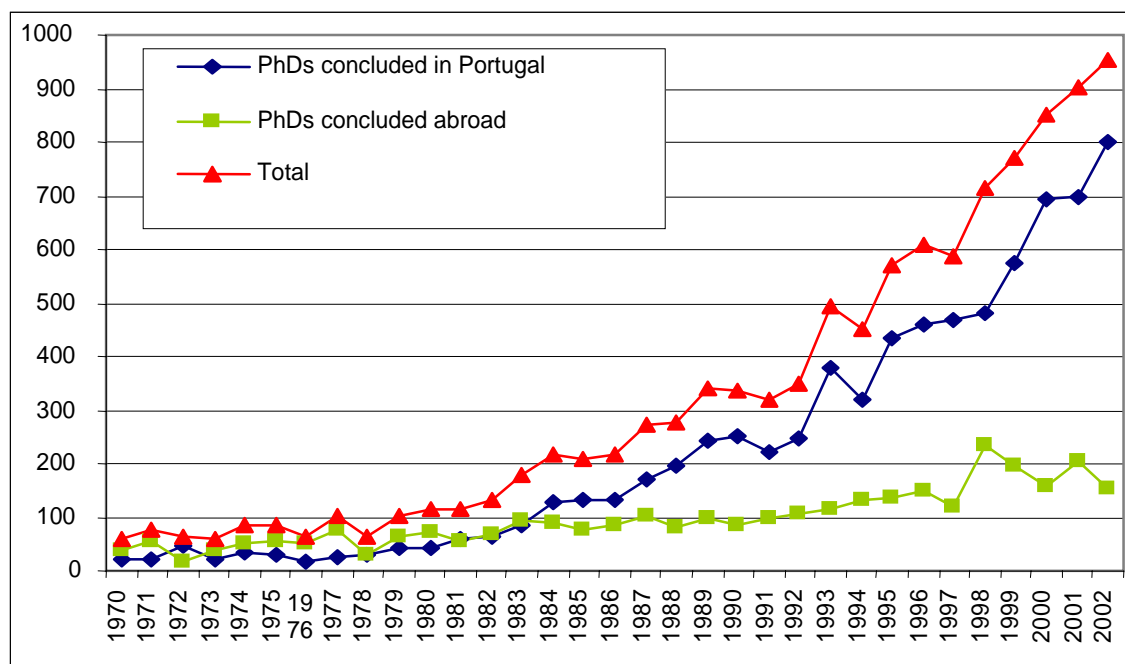


Figure 1 – PhDs concluded or recognised by Portuguese universities and abroad, in the period 1970-2002

Source: Science and Higher Education Observatory, PhDs concluded or recognised by Portuguese Universities, April 2003; Official Journal (II Series): Semester break down of PhD diplomas obtained abroad and recognised in Portugal under the scope of Decree-Law 216/97, of 18 August; Director-General for Higher Education: Registry of PhDs obtained in the European University Institute of Florence under the scope of Decree-Law 93/96, of 16 July.

Table 10 – Relation between annual flux of new graduates and doctorates: Average number of new graduates per each new PhD awarded in several countries

Country	Source of information	Number of new PhD's/Year (Latest Available year, Y)	Number of new graduates/Year (4 years before Y)	New Graduates per each new PhD
Portugal	OCES	1 068	54 255	51
Norway	Norway Statistics and NIFU STEP	855	29 376	34
Spain	Instituto Nacional de Estadística	6 936	208 543	30
United Kingdom	Higher Education Statistics Agency	10 660	233 610	22
Holland	Statistics Netherlands	2 556	23 954	9
Germany	Federal Statistical Office	23 138	159 115	7

Source: OCES

Table 11 – Number of new graduates per each new PhD awarded in Portugal for various scientific areas

Scientific Area	New graduates in 1998 per each new PhD in 2002	New graduates in 1999 per each new PhD in 2003	New graduates in 2000 per each new PhD in 2004	New graduates in 2001 per each new PhD in 2005
Agriculture	22	30	30	37
Arts & Humanities (b)	43	38	36	34
Social Sciences, Economics, Management & Law (b)	101	101	88	84
Education	155	169	169	208
Sciences & Engineering	18	18	18	17
Health and Social Protection	58	76	91	126

Source: OCES, 2006

(b) In 2006, the definition of the areas of Arts & Humanities and SS, Ec, Mg & Law were modified to be harmonised with the concepts used in Higher Education studies. Previously Arts & Humanities included only Estudos Artísticos, and now include Linguística, Filosofia, História e Arqueologia e Estudos Literários that were previously included in SS, Ec, Mg & Law.

Annex D - Academic staff

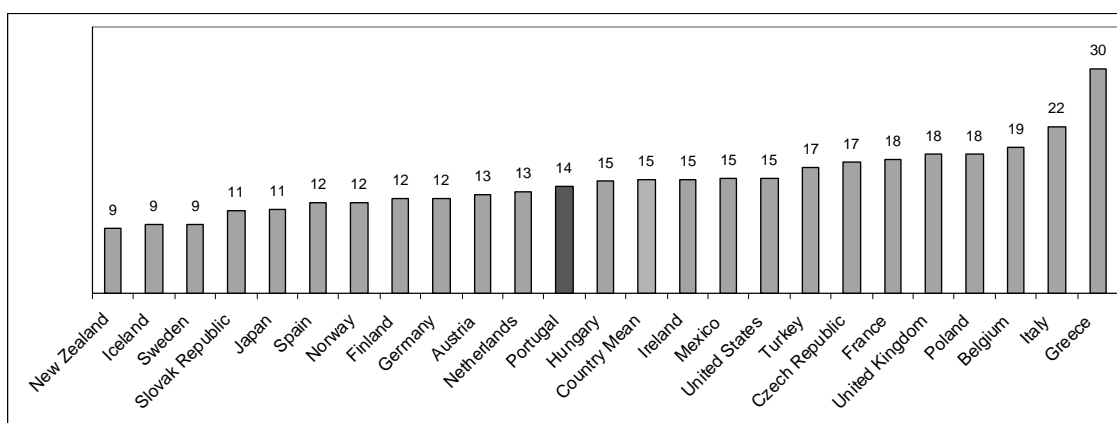


Figure 2 – Ratio of students to teaching staff in higher education in OECD (2003)

Notes: Teaching staff is based on full-time equivalents, FTEs; Norwegian and Portuguese data refer to public institutions only;

Sources: Portuguese data through DGESUP and OCES; otherwise: OECD(2005), Education at a Glance.

Table 12 – Teaching staff involved in tertiary education in Portugal, December 2005 (c) (d)

		Academic qualifications				Total
		PhD	Master	Graduation	Other	
Public universities	Number	8 480	2 721	3 344	161	14 706
	%	57,7	18,5	22,7	1,1	
Public Polytechnics	Number	1 201	4 157	4 976	620	10 954
	%	11,0	37,9	45,4	5,7	
Public military system	Number	111	124	272	21	528
	%	21,0	23,5	51,5	4,0	
Private Universities	Number	1 857	2 166	2 968	87	7 078
	%	26,2	30,6	41,9	1,2	
Polytechnic Private	Number	457	1 322	2 250	76	4 105
	%	11,1	32,2	54,8	1,9	
Total	Number	12 106	10 490	13 810	965	37 371
	%	32,4	28,1	37,0	2,6	

(c) –Preliminary values (d) – Break in series in 2005, due to reorganisation of institutions. Now there is a separation between University Private and Polytechnic Private. Source: OCES, 2006

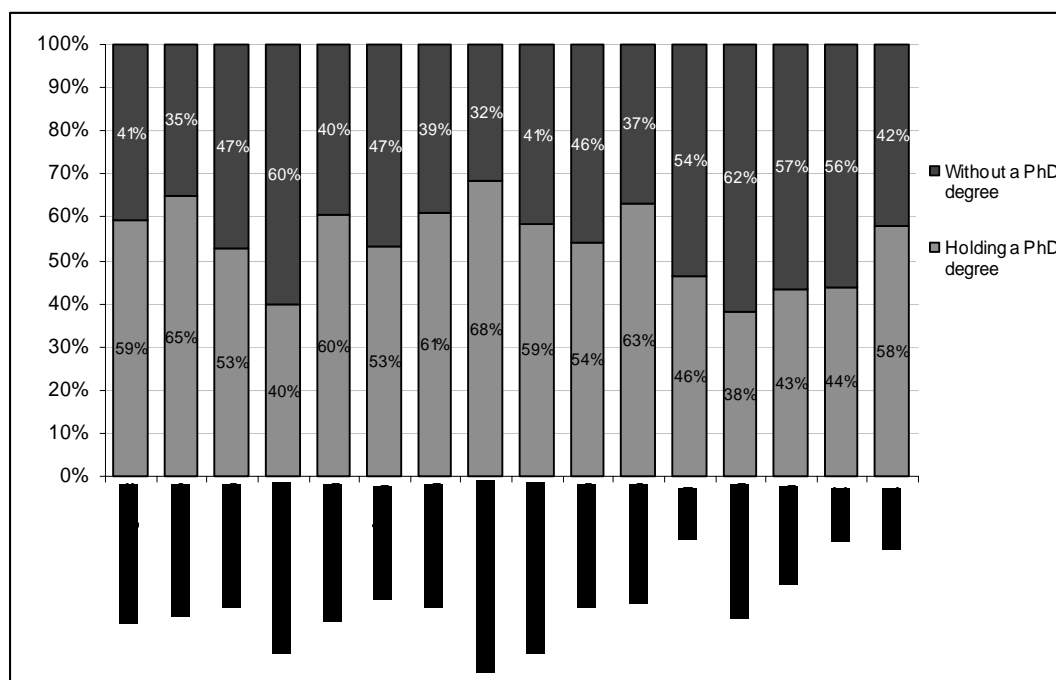


Figure 3 – Characterisation of public university faculty in terms of qualifications, 2005
Source: OCES, Development of Teaching Staff Qualifications in Public Higher Education: from 1993 to 2004, OCES, November 2005

Annex E - Decreasing enrolments

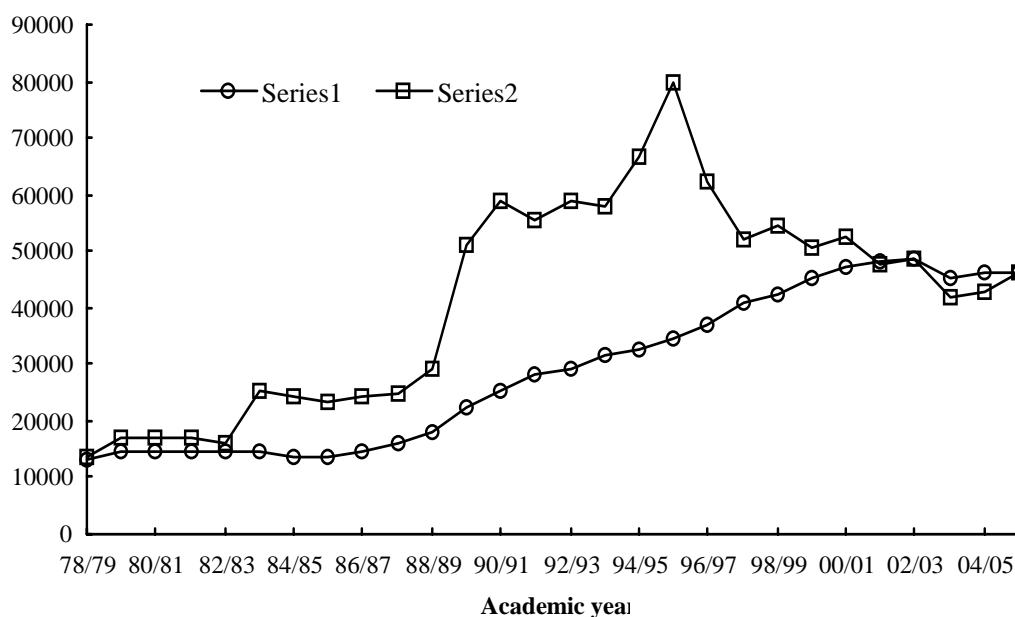


Figure 4 – Number of public vacancies (series 1) and candidates (series 2), for 1978 - 2005
Source: OCES, 2006

Table 13 – Number of education programmes with less than 10 new enrolments in 2004-2005 in public higher education (ISCED 5)

Fields of education and training	Number of Education Programmes (ISCED 5)		%
	1st year, 1st time <10 in 2004-2005	Still open in 2005-2006	
1 Education	30	14	47%
2 Humanities and Arts	47	30	64%
3 Social Sciences, Business and Law	5	3	60%
4 Science, Mathematics and Computing	27	16	59%
5 Engineering, Manufacturing and Construction	26	18	69%
6 Agriculture and Veterinary	16	10	63%
7 Health and Welfare	5	2	40%
8 Services	30	17	57%
TOTAL	186	110	59%

Table 14 – Number of education programmes in higher education, according to the level of total enrolments, 2005-2006 (ISCED 5)

Nr. of enrollments in the 1st year, first time	Public System				Private System		TOTAL
	Universities	%	Polytechnic	%	Total	%	
0	13	2%	12	2%	189	30%	214
1-9	69	12%	96	17%	87	14%	252
10-19	92	16%	107	18%	123	19%	322
20-49	211	37%	263	45%	138	22%	613
>49	181	32%	101	17%	94	15%	376
TOTAL	566	100%	579	100%	631	100%	1778

Table 15 – Number of new enrolments in higher education, according to the level of total enrolments in specific education programmes, 2005-2006 (ISCED 5)

Nr. of enrollments in the 1st year, first time	Public System				Private System		TOTAL
	Universities	%	Polytechnic	%	Total	%	
0	0	0%	0	0%	0	0%	0
1-9	343	1%	518	3%	508	3%	1.369
10-19	1.283	5%	1.545	8%	1.747	11%	4.575
20-49	7.074	26%	8.880	47%	4.451	29%	20.406
>49	18.055	67%	7.786	42%	8.549	56%	34.391
TOTAL	26.755	100%	18.729	100%	15.255	100%	60.741

Table 16 – Private institutions that have ceased activity in 2006

Institution	Enrolments in 31 st December															
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Autónoma ^k	234	423	543	717	796	826	812	672	538	371	232	104	60	24		
Internacional ^g	181	191	233	199	152	93	62	30								
COCITE ^a		41	63	15												
COCITE ^b		62	114	117	78	65	52	36								
ESJ	290	323	334	343	365	388	382	481	415	481	373	258	178	23	13	
I.Erasmus ^c	361	703	1055	1276	1747	2186										
I.Erasmus ^d				163	343	375	366	257								
IESF ^e	70	117	238	285	266	201	127	73	87	83						
IPES				75	141	200	224	189	230	171	145	140	118	83	32	
ISCIE ^c	630	997	1280	1669	1812	2066										
ISG ^a				177	133	99	79	58								
ISHT ^m				30	31	30	34	28	33	31	34	41	46	58	61	
ISHT ^f	54	99	147	142	119	162	151	137	62	51	18					
ISHT ^a				11	11	11	19	34	30	16						
ISTH ^l				33	41	59	110	108	105	78	68	61	50	42		
ISMG ^e	344	730	1213	3001	4415	5723	7394	7588								
ISMG ^f				145	169	178	184	148	106	88	38	16	10			
ISMG ^l				109	180	211	246	413	379	397	335	284	258	247		
ISMG ^m				173	182	172	164	153	122	86	92	73	56	50	49	
ISMG ^a				90	140	222	206	175	144	164	168	161	155	136	102	
ISPI ^g	58	53	33													
ISPP ^h	88	138	209	120	106	42										
ISPP ⁱ	172	304	462	529	608	619	523	393	248	115	70	29	20			
ISPP ^j	52	102	131	123												
ISTE ^e														22		
ISTR ^e				24	46	62	56	58	54	42	42	16	11			
ISTRCom ^e			40	73	104	139	161	165	145	134	127	104	37	22		

a – Torres Vedras; b – Setúbal; c – Porto; d – Ponte de Lima; e – Lisboa; f – Castelo Branco; g – Chaves; h – Lamego; i – Penafiel; j – Santo Tirso; k – Caldas da Rainha; l – Portimão; m – Marinha Grande
Source: OCES, 2006.

Annex F - Funding of higher education and research

Table 17 – Overall annual budget for Science and Technology, Information Society and Higher Education (as presented by Government for MCTES) for 2005 and 2006 – Unit: €

	2005	2006	Variation (%)
Science and Technology	335 022 495	392 232 372	17.1
Information Society	138 998 098	147 904 824	6.4
Higher Education	1 734 338 129	1 766 861 805	1.9
Higher Education (current expenses)	1 420 189 201	1 468 370 035	3.4
Social support system (grants, accommodation, meals)	191 900 499	204 744 588	6.7
Infra-structures (buildings and equipment)	122 248 429	93 747 182	-23.3
Administration and general services	11 012 681	12 020 234	9.1
TOTAL	2 219 371 403	2 319 019 235	4.5

Table 17 presents the budget of the MCTES for 2005 and 2006 which includes the budget for research, for higher education (teaching component), students' social support system, investments (new buildings and equipment) and administration and general service.

Table 18 – Sources of funding for 2006

Sources of funding for Science and Technology, Information Society and Higher Education (as presented by Government) – Unit: €

	State Budget	Earned income	European Structural Funds	Total
Science and Technology	219 989 671	21 112 182	151 130 519	392 232 372
Information Society	42 434 946	3 343 534	102 126 344	147 904 824
Higher Education		447 342		1 766 861
Running expenses (includes tuition fees)	1 266 038 728	049	53 481 028	805
Social support system	1 077 303 628	391 066		1 468 370
Infra-structures (buildings and equip.)	155 735 100	407		035
Administration and general services	33 000 000	49 009 488	53 481 028	204 744 588
	11 909 545	7 266 154		93 747 182
		110 689		12 020 234
TOTAL	1 540 372 890	471 908454	306 737 891	2 319 019235

Table 18 identifies the sources of funding of the 2006 budget for the MCTES, which shows that about 40% of the total budget corresponds to earned income, including tuition fees and accumulated net balances), and 13% corresponds to European structural funds. It is important to recognise the large contribution of EU funds to Science and Technology (38.5%) and to the Information Society programme (68.9%).

Table 19 – Sources of funding for 2006
Sources of funding for Higher Education (as presented by Government) – Unit: €

	State Budget	Earned income	European Structural Funds	Total
Sub-total for higher education (Running expenses)	1 077 303 628	391 066 407		1 468 370 035
Universities	745 486 472	294 417 131		1 039 903 603
Polytechnics	285 405 227	88 882 950		374 288 177
Other (schools not integrated) (1)	26 180 667	7 269 341		33 450 008
Contractual Funding	20 231 262	496 985		20 728 247
Sub-total for social support system	155 735 100	49 009 488		204 744 588
Universities	74 570 472	31 192 138		105 762 610
Polytechnics	34 219 628	13 717 350		47 936 978
EUL: University sports	1 025 000	4 100 000		5 125 000
Other social support (Private system)	45 920 000			45 920 000
Sub-total Infra-structures (buildings)	33 000 000	7 266 154	53 481 028	93 747 182
TOTAL	1 266 038 728	447 342 049	53 481 028	1 766 861 805

(1) Nursing schools; Estoril School of Hostelry and Tourism

Table 19 shows how the budget for higher education is split between public universities and polytechnics.

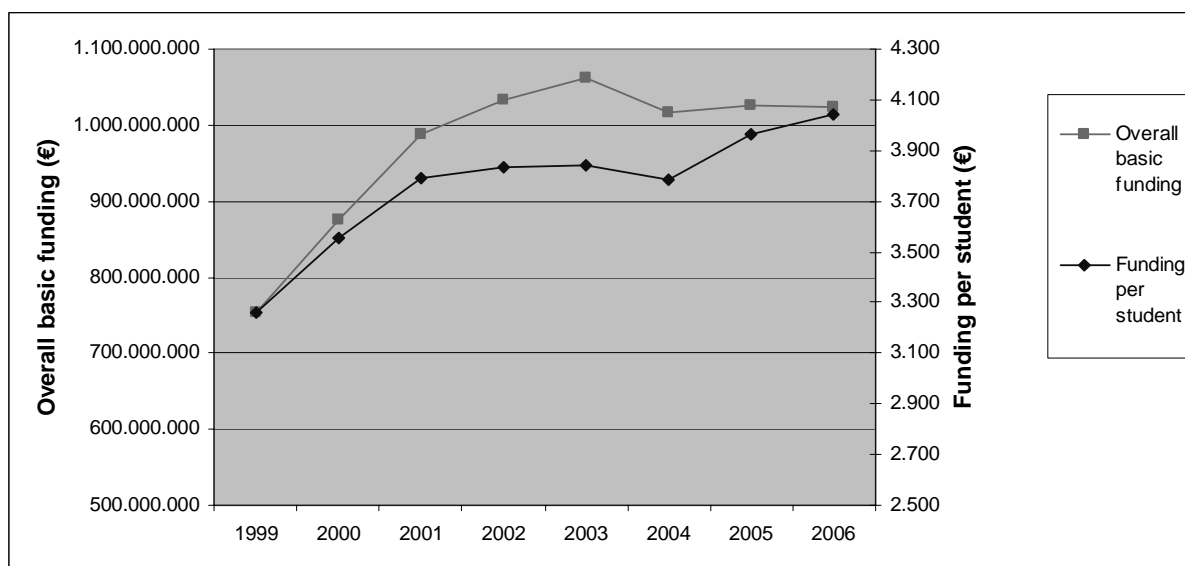


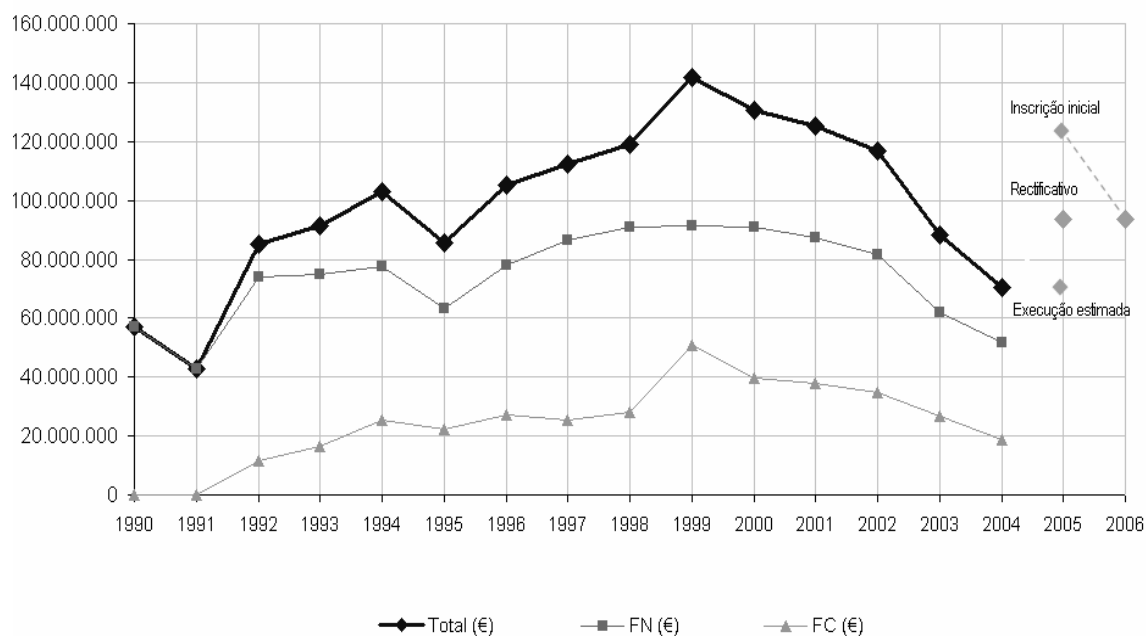
Figure 5 – Overall basic public funding and basic funding per student distributed through funding formula to public institutions (initial training)

Source: GEFCEs and OCES

Table 20 – Total expenditure in R&D, 1982-2003

Year	Current prices	Constant prices ¹	t.m.c.a. ²	PPCC ³	GERD/GDP
	1 000 €	1 000 €	%	(Millions US\$)	%
1982	32 627.4	196 745.5	-	185.3	0.30
1984	56 402.1	218 927.1	5.5	222.4	0.34
1986	99 099.2	262 331.1	9.5	280.8	0.38
1988	149 194.4	322 691.9	10.9	367.1	0.41
1990	259 535.5	448 933.2	17.9	550.6	0.51
1992	401 022.5	565 400.6	12.2	734.2	0.61
1995	460 037.1	544 404.2	-1.3	753.5	0.57
1997	576 882.9	638 583.2	8.3	907.6	0.62
1999	814 746.7	842 966.2	14.9	1 255.1	0.75
2001	1 038 431.7	995 909.8	8.7	1 578.4	0.85
2003	1 019 581.0	911 467.1	-4.3	1 527.3	0.78

Notes: 1 GDP Implicit deflators (2000=1), Main Science and Technology Indicators, OECD, 2005(1) - Database; 2 Average yearly growth rate at constant prices; 3 PPPs at constant prices, OECD (*ibid*); 4 GDP values published by OECD (*ibid*).



Source: GEFCES

Figure 6 – Evolution of public investment for buildings and equipments in higher education (€) for 1990 - 2004 (i.e., PIDDAC; includes national funds, FN, and European structural funds, FE)

Table 21 – Overall public investment in higher education (€) for 1990 - 2004

Sub-system	Contribution from the State Budget (1990-2004) (1)	European Structural Funds (1990-2004) (2)	Total Funding 1990-2004 (3=1+2)	Total Funding (1990-2004) per current student (December 2004)
Universities	689.632.925	207.699.698	897.332.623	5.162
Polytechnics	236.503.279	104.755.595	341.258.874	3.881
Other schools (Nursery)	26.508.140	0	26.508.140	2.525
Total	952.644.344	312.455.293	1.265.099.637	4.647

Source: GEFCES

Table 22 – Tuition fees for graduate programmes in public universities for 2006 (forecast)

Institution	Enrolments	Fees	Revenue
Univ. Algarve*	7 918	680	5 384 240
Univ. Aveiro*	10 305	900	9 274 500
UBI	5 072	850	4 311 200
Univ. Coimbra	17 406	901	15 682 806
Univ. Évora	7 147	799	5 710 453
Univ. Lisbon ¹	9 170	900	8 253 000
Fine Arts	1 220	800	976 000
Arts	4 106	530	2 176 180
Medicine	1 588	880	1 397 440
Psychology and Education	950	750	712 500
Univ. Minho	13 536	900	12 182 400
Univ. Nova Lisboa ²	9 170	900	8 253 000
Social Sciences and Humanities	2 975	620	1 844 500
Technical University of Lisbon	18 442	900	16 597 657
Univ. Porto	21 920	900	19 728 000
UTAD	5 945	880	5 231 600
Univ. Azores	2 590	700	1 813 000
Univ. Madeira	2 487	747	1 857 789
ISCTE	5 124	902	4 621 848

* also includes the polytechnic schools integrated in the university

¹ Schools of Sciences, Law, Dental Medicine and Pharmacy² Schools of Medical Sciences, Economics, Science and Technology, Law, Statistics and Information Management. Source: GEFCES, MCTES, 2005

As the Law allows each school to set its own level of fees, different schools of the same higher education institution may charge different fees, which depends on the institution's level of centralisation or on the power of the students' union. One can also observe that in general fees in Polytechnics are lower than in Universities.

Table 23 – Tuition fees for graduate programmes in public polytechnics for 2006 (forecast)

Institution	Enrolments	Fees	Revenue
Beja ¹	2 639	487	1 285 193
School of Health	308	600	184 800
Bragança	5 027	487	2 448 149
Castelo Branco	4 309	487	2 098 483
Cávado e Ave	1 465	600	879 000
Coimbra ¹	2 529	550	1 390 950
Coimbra ²	3 127	500	1 563 500
Coimbra ³	2 981	487	1 451 747
Guarda	3 207	550	1 763 850
Leiria	8 508	700	5 955 600
Lisboa ⁴	2 392	675	1 614 600
School of Journalism	1 089	900	980 100
School of Dance	121	825	99 825
School of Education	867	680	589 560
S. Accountancy & Administration	2 581	660	1 703 460
School of Engineering	6 581	705	4 639 605
Porto	14 608	800	11 686 400
Santarém	3 550	700	2 485 000
Portalegre ⁵	2 768	487	1 348 016
School of Agriculture	255	600	153 000
School of Health	268	650	174 200
Tomar	3 159	680	2 148 120
Setúbal	5 835	850	4 959 750
Viana do Castelo	2 897	750	2 172 750
Viseu	5 649	700	3 954 300
Nursing schools			
Coimbra	1 448	487	705 176
Lisbon	1 177	903	1 062 831
Porto	962	900	865 800

¹ Agriculture and Education ² Accountancy & Administration and Health

³ Engineering and Technology and Management ⁴ Theatre and Cinema, Music and Health

⁵ Education and Technology and Management

Source: GEFCES, MCTES, 2005

Table 24 – Sample survey of tuition fees for master programmes in public universities, 2005

University	Field of study	Tuition Fees (Euros)			Students enrolled
		1 st Year	2nd Year	Annual average	
Technical University of Lisbon, UTL	Sciences & Engineering	2000	2000	2000	2030
	Economy	5025	0	2513	
ISCTE	Social Sciences & Management	4670	520	2595	621
Univ. Minho		1375	1375	1375	732
Univ. Lisboa	Law	3140	0	1570	1830
	Sciences	1000	1000	1000	
	Humanities	1500	1500	1500	
Univ. Porto	Engineering	1480	1480	1480	2358
	Economy	2960	325	1642	
Univ. Aveiro	Arts, Sciences & Engineering	2250	2250	2250	559
	Economy & Management	1875	1875	1875	
	Maths & Education	1875	1875	1875	
	Social Sciences	1500	1500	1500	
New University of Lisbon, UNL	Economy	15000	-	15000	1263
	Health Sciences	2500	2500	2500	
	Social Sciences	1250	1250	1250	
Univ. Coimbra	Sciences & Engineering	1540	1540	1540	1335
	Sciences & Engineering	1150	1075	1113	
UBI	Sciences & Engineering	1575	1575	1575	206
	Social Sciences	1325	1325	1325	
Univ. Açores		2020	2020	2020	87

Table 25 – Allocation of the state budget for social support services in 2006

Type of Expenses	Funding (€)	% (Total)
1. Running expenses	108 686 100	85.1
(a) Personnel	33 800 172	26.5
(b) Student grants	67 788 505	53.1
(c) Other expenses	7 097 423	5.6
2. Capital expenses	104 000	0.1
3. Nursing and health technologies schools	3 280 681	2.6
4. Common endowments	15 639 319	12.2
5. Total	127 710 100	100.0

Table 26 - Main Programs of FCT Funding for Research and Development (a)

Programs		2000		2001		2002		2003		2004		2005	
FCT Funding of Research Projects		9.281.747,22	21.835.801,15	33.005.582,17	25.489.747,50	24.800.935,90	28.709.005,99						
Biology and Biotechnology		1.641.674,57	4.275.253,98	6.178.161,96	4.068.667,86	4.112.856,06	5.105.876,13						
Engineering Sciences		2.848.176,04	4.842.592,40	8.532.304,54	7.066.312,88	8.375.084,50	7.338.046,93						
Health Sciences		539.270,39	3.058.527,81	4.912.131,00	3.759.759,00	3.119.822,35	4.186.622,01						
Earth and Space Sciences		442.333,99	1.281.872,88	1.594.861,12	1.194.671,00	1.036.037,50	2.216.420,58						
Marine and Environmental Sciences		1.757.823,64	2.707.016,14	1.866.759,28	1.782.165,45	577.607,19	1.782.114,68						
Exact Sciences		1.261.260,39	2.853.560,97	4.887.754,27	3.711.779,00	3.917.866,41	3.727.635,89						
Social Sciences and Humanities		791.208,20	2.816.976,97	5.033.610,00	3.906.392,31	3.661.661,89	4.352.289,77						
FCT Funding for Fellowships		47.707.008,00	53.693.889,00	61.507.795,00	68.758.307,00	73.414.101,00	82.809.828,00						
Biology and Biotechnology		8.632.314,00	10.449.711,00	12.234.774,00	13.560.398,00	13.227.877,00	14.393.058,00						
Engineering Sciences and architecture		7.922.829,00	8.488.558,00	9.909.302,00	11.340.363,00	12.580.150,00	15.834.556,00						
Health Sciences		6.497.336,00	7.099.580,00	7.916.796,00	9.048.378,00	10.406.361,00	12.090.354,00						
Earth and Space Sciences		887.173,00	1.097.550,00	1.501.049,00	1.644.649,00	1.799.052,00	2.218.097,00						
Marine and Environmental Sciences		2.485.928,00	3.356.850,00	4.338.780,00	5.152.067,00	5.845.867,00	6.320.195,00						
Exact Sciences		8.765.335,00	9.235.632,00	10.279.513,00	11.663.050,00	12.535.440,00	12.965.833,00						
Social Sciences and Humanities		12.516.093,00	13.966.008,00	15.327.581,00	16.349.402,00	17.019.354,00	18.987.735,00						
FCT Funding for Research Centres and Associate Labs		(b)	(b)	(b)	17.582.744,60	56.481.164,04	56.074.224,54						
Biology and Biotechnology		(b)	(b)	(b)	340.248,54	1.273.842,13	1.010.572,98						
Engineering Sciences and architecture		(b)	(b)	(b)	6.694.599,68	19.807.536,58	19.303.549,74						
Health Sciences		(b)	(b)	(b)	3.463.566,91	8.941.198,51	10.892.697,49						
Earth and Space Sciences		(b)	(b)	(b)	422.903,47	1.592.008,44	1.772.237,65						
Marine and Environmental Sciences		(b)	(b)	(b)	938.780,80	2.785.113,13	3.003.028,74						
Exact Sciences		(b)	(b)	(b)	2.562.940,52	11.047.998,15	10.276.150,05						
Social Sciences and Humanities		(b)	(b)	(b)	3.159.704,68	11.033.467,10	9.815.987,89						

- (a) The three sub-totals do not accomplish the total funding of FCT, according to table 1. The remaining part includes: Current Expenses (21M€ in 2005, according to table 1), researchers mobility, organization of international scientific conferences, participation in international projects, international relations, R&D projects with university and companies cooperation, promotion of scientific culture and other programs with less expression in total funding.
- (b) Not presented here because of different methodology used in the process of gathering data.

Table 27 – Overall financing of FCT

FCT			
UNID €			
ANO	INVESTIMENTOS DO PLANO	FUNCIONAMENTO	TOTAL (1 + 2)
	PIDDAC (1)	CURRENT EXPENSES (2)	
1995	62.120.319,62	9.945.097,42	72.065.417,03
1996	73.232.737,27	13.129.619,26	86.362.356,53
1997	79.972.868,62	11.392.438,55	91.365.307,17
1998	113.635.484,72	9.943.538,57	123.579.023,29
1999	114.025.643,33	9.359.015,33	123.384.658,66
2000	137.125.784,20	7.012.338,66	144.138.122,86
2001	175.270.390,31	7.181.382,13	182.451.772,44
2002	174.265.347,25	5.669.870,94	179.935.218,19
2003	124.096.254,21	13.461.629,57	137.557.883,78
2004	159.865.692,34	21.762.330,74	181.628.023,08
2005	196.524.326,00	21.891.466,00	218.415.792,00
TOTAL	1.410.134.847,88	130.748.727,16	1.540.883.575,04

Table 28 - Human resources registered at Research Centres and Associate Labs per field (31/12/2005)

	Researchers		PhD	
	Head Count	%	FTE	%
Biology and Biotechnology	2739	13%	1204	8%
Engineering Sciences	5718	27%	2507	16%
Health Sciences	2549	12%	1056,75	7%
Earth and Space Sciences	665	3%	665	4%
Marine and Environmental Sciences	1368	6%	1368	9%
Exact Sciences	2622	12%	2622	17%
Social Sciences and Humanities	5825	27%	5825	38%
Total	21486	100%	15247,75	100%

