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OPERATIONAL COSTS OF UNIVERSITIES

HQA Study

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Introduction

A rational method of funding HEIs is a basic factor influencing the quality of the educational services that they provide.

The HQA, having found significant differences in the qualitative operating data of various HEI academic units as well as the absences that are mentioned in the Evaluation Reports, proceeded with an initial picture of the operating costs of the teaching services that are offered.

The operating costs of the "**teaching work**" of a HEI were calculated, as happens in other countries, on the basis of the following expenses:

- Salaries of teaching staff
- Salaries of administrative staff
- Operational expenses

The quality of the education is based on pedagogical criteria, including the ratio of a reasonable number of students per member of teaching staff and attendance of the course by students. These relate to the factors that contribute the most to the educational costs.

In accordance with the above, the following tables present the following:

- average cost per student per year for the Universities
- comparison of this cost for similar Universities and academic units
- comparison of this cost between two different years (2009 and 2011)
- the number of students who correspond to each member of the administrative and teaching staff

These calculations did not include other expenses, such as:

- '**grants**', i.e. catering, free provision of books and provision of accommodation, as these depend on political will and the possibility of making funds available,
- the '**funding of new buildings and new services**',

as this is a matter for negotiation on the basis of need and the available state funding, and
– the **‘funding of research’**,
which must be competitive between the best prepared proposals.

Financial planning must be based on estimates of real figures, such as:

- the total number of full-time students
- the time and employment costs of the teaching staff, and
- qualitative indices, such as the appropriate number of students per teaching staff member, analogous to the discipline taught.

The cost per student for different disciplines in proportion to the specific demands in infrastructure, equipment and teaching methods must be based on the actual operations of the HEIs.

The differences in cost that can be observed on the following tables are not to be critiqued as they are but require in-depth study so as to be able to find the ‘objective cost per student’ and adapt the funding for an HEI analogously.

There are particularities, e.g. the Medical Schools, which involve the obligations of two Ministries (National Education and Lifelong Learning, and Health and Social Solidarity), with the result that the budget of an HEI incurs the expenses that should be incurred by the other Ministry, and many other similar examples of the bad design of the procedures and responsibilities of the different services.

More specifically, the average cost of funding per student and per discipline must be determined. The average cost per student per HEI is calculated according to the composition of the specialities and the number of entrants per speciality (i.e. the average cost of the corresponding cost of all the Institution’s academic units), on the basis of which each Institution is funded for the educational work that it offers.

It should be noted that the National Technical University of Athens and the Agricultural School of Athens have a high cost per year per student. As such, Tables 5 and 6 provide an initial exploration of the difference between the various Technical Schools and Agricultural Schools in terms of costs per student. The cost analysis is based on the available data for the Universities that is given in the tables and, as such, is indicative. The collection and complete processing of the data from the remaining similar academic units and Schools is awaited, in order to determine the cost per student for the Technical Schools and Agricultural Schools.

The calculations were also made on the basis of new entrants, with the precondition that they all attend and are studying within the regular duration of studies.

The description of the method for calculating the funding for the teaching work of the HEIs follows.

- The average cost per student/year (MK) is used, which is multiplied by the number of ‘full-time’ students (ΦΠΦ).
- The number of (ΦΠΦ) is calculated on the basis of the total number of students who registered on the courses for the two semesters of the previous academic year divided by the number of semester courses they were obliged to follow (ν). The result is the number of ‘full-time students’ (ΦΠΦ), which, multiplied by the average cost per student/year, gives the new budget (Π) for the operations of the HEI for the next academic year.

In other words:

$$\Phi\Pi\Phi = \frac{\sum_{i=0}^{\nu} i \cdot E\Phi_i}{\nu}$$

where:

ΦΠΦ = number of full-time students

ν = number of courses each student must take per year

$E\Phi_i$ = number of registered students who take i of the ν courses of the year, $i = 0, 1, \dots, \nu$

$E\Phi$ = number of registered students, and $E\Phi = \sum_{i=0}^{\nu} E\Phi_i$

and

$\Pi = MK \cdot \Phi\Pi\Phi$

where:

Π = funding budget

MK = average cost per student

- Of course when this method is being used, the statistical data that monitor the operations of the Institute help achieve a better approach to the budget each year.

Example:

In an HEI let us assume:

- (a) that 1000 students are registered ($E\Phi = 1000$)
 - In order to get a degree, they must register on and take 5 courses a semester, or 10 courses in each academic year ($\nu = 10$), and
- (b) the average cost per student each year is $MK = \text{€}10,000$

The budget will be:

Case (I): If the 1000 students register on and take 5 courses a semester, or 10 throughout the whole academic year, then the budget would be 1000 full-time students ($\Phi\Pi\Phi$) x €10,000, $\Pi = MK \cdot \Phi\Pi\Phi = \text{€}10,000,000$.

Case (II): If there are only 600 full-time students ($\Phi\Pi\Phi$) and the remaining 400 are part-time ($\Phi M\Phi$), of whom 200 have registered for only 3 courses each semester or 6 courses over the academic year, 50 have registered for 7 courses over the academic year and the remaining 150 for 9 courses over the academic year, then the calculation to correlate the part-time students with the full-time students is as follows:

$$\Phi \Pi \Phi = \frac{\sum_{i=0}^{\nu} i \cdot E\Phi_i}{\nu} = \frac{6 \cdot 200 + 7 \cdot 50 + 9 \cdot 150 + 10 \cdot 600}{10} = 890$$

Therefore: $\Pi = MK \cdot \Phi \Pi \Phi = 10.000 \text{ €} \cdot 890 = 8.900.000 \text{ €}$

Table 1. Universities - Comparative data for operating costs – 2009

Universities	Academic Units	Salaries ⁽²⁾	Salaries of temporary staff	Operational expenses ⁽³⁾	Teaching	Postgraduate programmes	Various grants	TOTAL	Number of students (regular duration of studies)	Average annual cost per student
National & Kapodistrian Uni. of Athens ⁽⁴⁾	33	130,209,145	1,000,000	69,000,000	400,000	907,000	294,033	201,810,178	25,875	7,799
Aristotle University of Thessaloniki	42	189,006,217	2,000,000	44,700,000	400,000	1,020,100	-	237,126,317	27,100	8,750
National Technical University of Athens	9	60,183,141	500,000	10,400,000	-	265,000	-	71,348,141	6,040	11,813
Athens University of Economics and Business	8	14,071,380	800,000	5,600,000	-	-	-	20,471,380	5,415	3,780
Agricultural University of Athens	6	16,945,015	100,000	4,600,000	-	23,000	-	21,668,015	2,045	10,596
Athens School of Fine Arts	2	3,496,693	350,000	3,200,000	-	35,000	-	7,081,693	545	12,994
Panteion University of Social & Political Sciences	9	16,057,378	300,000	5,700,000	-	254,000	-	22,311,378	6,440	3,464
University of Piraeus	9	12,266,791	200,000	5,700,000	-	-	-	18,166,791	6,575	2,763
University of Macedonia	10	12,363,335	1,000,000	4,900,000	-	46,000	-	18,309,335	4,590	3,989
University of Patras	21	50,477,555	2,800,000	15,000,000	160,000	630,000	-	69,067,555	13,035	5,299
University of Ioannina	14	35,673,537	2,400,000	13,800,000	280,000	479,000	-	52,632,537	10,245	5,137
University of Crete	17	34,365,417	2,900,000	9,100,000	280,000	646,000	-	47,291,417	9,370	5,047
University of the Aegean	17	20,906,340	3,800,000	8,500,000	280,000	97,000	-	33,583,340	8,815	3,810
University of Thessaly	16	28,601,100	4,000,000	8,200,000	-	153,000	-	40,954,100	5,610	7,300
Democritus University of Thrace	20	37,437,039	2,500,000	15,650,000	100,000	46,000	150,000	55,883,039	13,160	4,246
Technical University of Crete	5	11,361,861	1,900,000	3,950,000	-	115,000	-	17,326,861	2,090	8,290
Ionian University	6	6,048,200	1,900,000	4,300,000	-	165,000	-	12,413,200	1,975	6,285

Harokopio University	4	3,675,300	450,000	1,200,000	-	-	-	5,325,300	605	8,802
University of Peloponnese	10	3,801,332	1,600,000	2,350,000	-	-	-	7,751,332	3,320	2,335
Uni. of Western Macedonia	5	3,325,912	900,000	2,300,000	-	69,000	-	6,594,912	2,520	2,617
Uni. of Central Greece	2	93,115	200,000	1,250,000	-	-	-	1,543,115	550	2,806
International Hellenic University	3	-	-	800,000	-	-	-	800,000		
Uni. of Western Greece ⁽⁵⁾									1,195	

(1) Regular Budget for the financial year 2009

(2) Permanent teaching staff, technical staff, administrative staff.

(3) Including all the Institution's operating expenses aside from catering and textbooks

(4) Including the Expenses of the Aigineteios Uni. Hospital and the Aretaieiou Uni. Hospital

(5) Founded August 2009

The calculations used the number of students per academic unit within the regular duration of studies

Source: Economic Service of the Ministry for Education, Lifelong Learning and Religious Affairs

The calculation of the Average Annual Cost per student was done by the HQA

Table 2(a). Comparison per category of similar Universities - cost per student per year – 2009

1) Universities that have Technical Universities, Medical Schools and other items

Universities	Academic Units	Salaries ⁽²⁾	Salaries of temporary staff	Operational expenses ⁽³⁾	Teaching	Postgraduate programmes	Various grants	TOTAL	Number of students (regular duration of studies)	Average annual cost per student
Aristotle University of Thessaloniki	42	189,006,217	2,000,000	44,700,000	400,000	1,020,100	-	237,126,317	27,100	8,750
University of Patras	21	50,477,555	2,800,000	15,000,000	160,000	630,000	-	69,067,555	13,035	5,299
University of Thessaly	16	28,601,100	4,000,000	8,200,000	-	153,000	-	40,954,100	5,610	7,300
Democritus University of Thrace	20	37,437,039	2,500,000	15,650,000	100,000	46,000	150,000	55,883,039	13,160	4,246
AVERAGE										6,399

2) Universities that have Medical Schools and other items

Universities	Academic Units	Salaries ⁽²⁾	Salaries of temporary staff	Operational expenses ⁽³⁾	Teaching	Postgraduate programmes	Various grants	TOTAL	Number of students (regular duration of studies)	Average annual cost per student
National & Kapodistrian Uni. of Athens ⁽⁴⁾	33	130,209,145	1,000,000	69,000,000	400,000	907,000	294,033	201,810,178	25,875	7,799
University of Ioannina	14	35,673,537	2,400,000	13,800,000	280,000	479,000	-	52,632,537	10,245	5,137
University of Crete	17	34,365,417	2,900,000	9,100,000	280,000	646,000	-	47,291,417	9,370	5,047
AVERAGE										5,995

3) Universities that do not have Technical Universities and Medical Schools

Universities	Academic Units	Salaries ⁽²⁾	Salaries of temporary staff	Operational expenses ⁽³⁾	Teaching	Postgraduate programmes	Various grants	TOTAL	Number of students (regular duration of studies)	Average annual cost per student
University of the Aegean	17	20,906,340	3,800,000	8,500,000	280,000	97,000	-	33,583,340	8,815	3,810

Ionian University	6	6,048,200	1,900,000	4,300,000	-	165,000	-	12,413,200	1,975	6,285
University of Peloponnese	10	3,801,332	1,600,000	2,350,000	-	-	-	7,751,332	3,320	2,335
AVERAGE										4,143

4) Technical Universities

Universities	Academic Units	Salaries ⁽²⁾	Salaries of temporary staff	Operational expenses ⁽³⁾	Teaching	Postgraduate programmes	Various grants	TOTAL	Number of students (regular duration of studies)	Average annual cost per student
National Technical University of Athens	9	60,183,141	500,000	10,400,000	-	265,000	-	71,348,141	6,040	11,813
Technical University of Crete	5	11,361,861	1,900,000	3,950,000	-	115,000	-	17,326,861	2,090	8,290
AVERAGE										10,051

Table 2(a). Comparison per category of similar Universities - cost per student per year - 2009⁽¹⁾ (2 of 2)

5) Former Higher Schools

Universities	Academic Units	Salaries ⁽²⁾	Salaries of temporary staff	Operational expenses ⁽³⁾	Teaching	Postgraduate programmes	Various grants	TOTAL	Number of students (regular duration of studies)	Average annual cost per student
Athens University of Economics and Business (Supreme School of Economics and Business)	8	14,071,380	800,000	5,600,000	-	-	-	20,471,380	5,415	3,780
Agricultural University of Athens (Supreme Agricultural School of Athens)	6	16,945,015	100,000	4,600,000	-	23,000	-	21,668,015	2,045	10,596
Panteion University of Social & Political Sciences (Panteion Supreme School of Social Sciences)	9	16,057,378	300,000	5,700,000	-	254,000	-	22,311,378	6,440	3,464
University of Piraeus (Higher School for Industrial Sciences)	9	12,266,791	200,000	5,700,000	-	-	-	18,166,791	6,575	2,763

University of Macedonia (School of Higher Industrial Studies of Thessaloniki)	10	12,363,335	1,000,000	4,900,000	-	46,000	-	18,309,335	4,590	3,989
Harokopio University (Harokopios Higher School of Home Economics)	4	3,675,300	450,000	1,200,000	-	-	-	5,325,300	605	8,802
AVERAGE										5,566

6) Higher Schools

Universities	Academic Units	Salaries ⁽²⁾	Salaries of temporary staff	Operational expenses ⁽³⁾	Teaching	Postgraduate programmes	Various grants	TOTAL	Number of students (regular duration of studies)	Average annual cost per student
Athens School of Fine Arts	2	3,496,693	350,000	3,200,000	-	35,000	-	7,081,693	545	12,994
AVERAGE										12,994

7) Newly-founded Universities

Universities	Academic Units	Salaries ⁽²⁾	Salaries of temporary staff	Operational expenses ⁽³⁾	Teaching	Postgraduate programmes	Various grants	TOTAL	Number of students (regular duration of studies)	Average annual cost per student
Uni. of Western Macedonia	5	3,325,912	900,000	2,300,000	-	69,000	-	6,594,912	2,520	2,617
Uni. of Central Greece	2	93,115	200,000	1,250,000	-	-	-	1,543,115	550	2,806
International Hellenic University	3	-	-	800,000	-	-	-	800,000		
Uni. of Western Greece ⁽⁵⁾									1,195	
AVERAGE										2,711

(1) Regular Budget for the financial year 2009

(2) Permanent teaching staff, technical staff, administrative staff.

(3) Including all the Institution's operating expenses aside from catering and textbooks

(4) Including the Expenses of the Aigineteios Uni. Hospital and the Aretaieiou Uni. Hospital

(5) Founded August 2009

The calculations used the number of students per academic unit within the regular duration of studies

Source: Economic Service of the Ministry for Education, Lifelong Learning and Religious Affairs

The calculation of the Average Annual Cost per student was done by the HQA

**Table 2(b). Comparison per category of similar Universities - cost per student per year –
2011**

1) Universities that have Technical Universities, Medical Schools and other items

Universities	Academic Units	Salaries ⁽²⁾	Salaries of temporary staff	Operational expenses ⁽³⁾	Teaching	Postgraduate programmes	Various grants	TOTAL	Number of students (regular duration of studies)	Average annual cost per student
Aristotle University of Thessaloniki	42	126,628,971	900,000	29,500,000	-	-	-	157,028,971	25,315	6,203
University of Patras	21	46,862,354	2,100,000	11,150,000	-	-	-	60,112,354	14,465	4,156
University of Thessaly	16	26,118,700	2,800,000	6,250,000	-	-	-	35,168,700	6,470	5,436
Democritus University of Thrace	20	35,010,156	2,450,000	10,300,000	-	-	-	47,760,156	15,275	3,127
AVERAGE										4,730

2) Universities that have Medical Schools and other items

Universities	Academic Units	Salaries ⁽²⁾	Salaries of temporary staff	Operational expenses ⁽³⁾	Teaching	Postgraduate programmes	Various grants	TOTAL	Number of students (regular duration of studies)	Average annual cost per student
National & Kapodistrian Uni. of Athens ⁽⁴⁾	33	117,491,121	950,000	48,600,000	500,000	2,000,000	-	169,541,121	24,360	6,960
University of Ioannina	14	33,077,106	900,000	8,600,000	-	-	-	42,577,106	11,610	3,667
University of Crete	17	33,518,383	2,800,000	6,350,000	-	-	-	42,668,383	10,830	3,940
AVERAGE										4,856

3) Universities that do not have Technical Universities and Medical Schools

Universities	Academic Units	Salaries ⁽²⁾	Salaries of temporary staff	Operational expenses ⁽³⁾	Teaching	Postgraduate programmes	Various grants	TOTAL	Number of students (regular duration of studies)	Average annual cost per student
University of the Aegean	17	17,798,120	2,800,000	5,800,000	-	-	-	26,398,120	10,480	2,519
Ionian University	6	5,897,208	850,000	2,600,000	-	-	-	9,347,208	2,285	4,091

University of Peloponnese	10	7,304,197	700,000	1,650,000	-	-	-	9,654,197	4,115	2,346
AVERAGE										2,985

4) Technical Universities

Universities	Academic Units	Salaries ⁽²⁾	Salaries of temporary staff	Operational expenses ⁽³⁾	Teaching	Postgraduate programmes	Various grants	TOTAL	Number of students (regular duration of studies)	Average annual cost per student
National Technical University of Athens	9	58,599,090	260,000	6,150,000	-	-	-	65,009,090	5,490	11,841
Technical University of Crete	5	10,672,519	1,400,000	2,650,000	-	-	-	14,722,519	2,325	6,332
AVERAGE										9,087

Table 2(b). Comparison per category of similar Universities - cost per student per year - 2011⁽¹⁾ (2 of 2)

5) Former Higher Schools

Universities	Academic Units	Salaries ⁽²⁾	Salaries of temporary staff	Operational expenses ⁽³⁾	Teaching	Postgraduate programmes	Various grants	TOTAL	Number of students (regular duration of studies)	Average annual cost per student
Athens University of Economics and Business (Supreme School of Economics and Business)	8	12,838,013	220,000	4,150,000	-	-	-	17,208,013	5,200	3,309
Agricultural University of Athens (Supreme Agricultural School of Athens)	6	15,093,896	60,000	3,100,000	-	-	-	18,253,896	2,020	9,037
Panteion University of Social & Political Sciences (Panteion Supreme School of Social Sciences)	9	17,239,925	-	3,100,000	-	-	-	20,339,925	6,170	3,297
University of Piraeus (Higher School for Industrial Sciences)	9	11,586,612	-	4,000,000	-	-	-	15,586,612	6,270	2,486
University of Macedonia	10	12,571,671	860,000	3,900,000	-	-	-	17,331,671	4,465	3,882

(School of Higher Industrial Studies of Thessaloniki)										
Harokopio University (Harokopios Higher School of Home Economics)	4	3,765,084	-	1,150,000	-	-	-	4,915,084	655	7,504
AVERAGE										4,919

6) Higher Schools

Universities	Academic Units	Salaries ⁽²⁾	Salaries of temporary staff	Operational expenses ⁽³⁾	Teaching	Postgraduate programmes	Various grants	TOTAL	Number of students (regular duration of studies)	Average annual cost per student
Athens School of Fine Arts	2	3,427,812	160,000	2,250,000	-	-	-	5,837,812	570	10,242
AVERAGE										10,242

7) Newly-founded Universities

Universities	Academic Units	Salaries ⁽²⁾	Salaries of temporary staff	Operational expenses ⁽³⁾	Teaching	Postgraduate programmes	Various grants	TOTAL	Number of students (regular duration of studies)	Average annual cost per student
Uni. of Western Macedonia	5	4,504,872	640,000	1,600,000	-	-	-	6,744,872	2,905	2,322
Uni. of Central Greece	2	632,809	-	600,000	-	-	-	1,232,809	610	2,021
International Hellenic University	3	59,133	-	450,000	-	-	-	509,133		
Uni. of Western Greece ⁽⁵⁾			350,000	1,500,000	-	-	-	1,850,000	1,495	
AVERAGE										2,171

(1) Regular Budget for the financial year 2011

(2) Permanent teaching staff, technical staff, administrative staff.

(3) Including all the Institution's operating expenses aside from catering and textbooks

(4) Including the Expenses of the Aigineteios Uni. Hospital and the Aretaieiou Uni. Hospital

(5) Founded August 2009

The calculations used the number of students per academic unit within the regular duration of studies

Source: Economic Service of the Ministry for Education, Lifelong Learning and Religious Affairs

The calculation of the Average Annual Cost per student was done by the HQA

Table 3. Fluctuation of average cost per student from University to University per category of similar Universities – 2009

1) Universities that have Technical Universities, Medical Schools and other items

Universities	Academic Units	Number of students (in regular durations of studies)	Fluctuation of average cost per student from University to University
Aristotle University of Thessaloniki	42	27,100	4,246 - 8,750
University of Patras	21	13,035	
University of Thessaly	16	5,610	
Democritus University of Thrace	20	13,160	

2) Universities that have Medical Schools and other items

Universities	Academic Units	Number of students (in regular durations of studies)	Fluctuation of average cost per student from University to University
National & Kapodistrian Uni. of Athens ⁽²⁾	33	25,875	5,047 - 7,799
University of Ioannina	14	10,245	
University of Crete	17	9,370	

3) Universities that do not have Technical Universities and Medical Schools

Universities	Academic Units	Number of students (in regular durations of studies)	Fluctuation of average cost per student from University to University
University of the Aegean	17	8,815	2,335 - 6,285
Ionian University	6	1,975	
University of Peloponnese	10	3,320	

4) Technical Universities

Universities	Academic Units	Number of students (in regular durations of studies)	Fluctuation of average cost per student from University to University
National Technical University of Athens	9	6,040	8,290 - 11,813
Technical University of Crete	5	2,090	

5) Former Higher Schools

Universities	Academic Units	Number of students (in regular durations of studies)	Fluctuation of average cost per student from University to University
Athens University of Economics and Business (Supreme School of Economics and Business)	8	5,415	2,763 - 10,596
Agricultural University of Athens (Supreme Agricultural School of Athens)	6	2,045	
Panteion University of Social & Political Sciences (Panteion Supreme School of Social Sciences)	9	6,440	
University of Piraeus (Higher School for Industrial Sciences)	9	6,575	
University of Macedonia (School of Higher Industrial Studies of Thessaloniki)	10	4,590	

Harokopio University (Harokopios Higher School of Home Economics)	4	605	
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6) Higher Schools

Universities	Academic Units	Number of students (in regular durations of studies)	Average annual cost per student
Athens School of Fine Arts	2	545	12,994

7) Newly-founded Universities

Universities	Academic Units	Number of students (in regular durations of studies)	Fluctuation of average cost per student from University to University
Uni. of Western Macedonia	5	2,520	2,617 - 2,806
Uni. of Central Greece	2	550	
International Hellenic University	3		
Uni. of Western Greece ⁽³⁾		1,195	

(1) Regular Budget for the financial year 2009

(2) Including the Expenses of the Aigineteios Uni. Hospital and the Aretaieiou Uni. Hospital

(3) Founded August 2009

The calculations used the number of students per academic unit within the regular duration of studies

In order to calculate the expenses of the institutions, the salaries of the permanent teaching staff, technical staff, administrative staff, the salaries of the temporary staff and the operational expenses, with the exclusion of catering and textbooks.

Source: Economic Service of the Ministry for Education, Lifelong Learning and Religious Affairs

Calculation of the Average Annual Cost per student and the fluctuation from University to University was done by the HQA

Table 4(a). Universities. Comparative data for operating costs for teaching - 2009 and 2011

2009

University	Academic Units	Salaries ⁽²⁾	Salaries of temporary staff	Operational expenses ⁽³⁾	Teaching	Postgraduate programmes	Various grants	TOTAL	Number of students (regular duration of studies)	Average annual cost per student
National Technical University of Athens ⁽ⁱ⁾	9	60,183,141	500,000	10,400,000	-	265,000	-	71,348,141	6,040	11,813
Aristotle University of Thessaloniki ⁽ⁱⁱ⁾	42	189,006,217	2,000,000	44,700,000	400,000	1,020,100	-	237,126,317	27,100	8,750
Technical University of Crete ⁽ⁱ⁾	5	11,361,861	1,900,000	3,950,000	-	115,000	-	17,326,861	2,090	8,290
Athens University of Economics and Business ⁽ⁱⁱⁱ⁾	8	14,071,380	800,000	5,600,000	-	-	-	20,471,380	5,415	3,780
Agricultural University of Athens ⁽ⁱⁱⁱ⁾	6	16,945,015	100,000	4,600,000	-	23,000	-	21,668,015	2,045	10,596

2011

University	Academic Units	Salaries ⁽²⁾	Salaries of temporary staff	Operational expenses ⁽³⁾	Teaching	Postgraduate programmes	Various grants	TOTAL	Number of students (regular duration of studies)	Average annual cost per student
National Technical University of Athens	9	58,599,090	260,000	6,150,000	-	-	-	65,009,090	5,490	11,841
Aristotle University of Thessaloniki	42	126,628,971	900,000	29,500,000	-	-	-	157,028,971	25,315	6,203
Technical University of Crete	5	10,672,519	1,400,000	2,650,000	-	-	-	14,722,519	2,325	6,332

Athens University of Economics and Business	8	12,838,013	220,000	4,150,000	-	-	-	17,208,013	5,200	3,309
Agricultural University of Athens	6	15,093,896	60,000	3,100,000	-	-	-	18,253,896	2,020	9,037

Samples of Universities:

- (i) Technical Universities
- (ii) University with Medical and Technical School
- (iii) Former Higher Schools

(1) Regular Budgets for the financial years 2009 and 2011 respectively

(2) Permanent teaching staff, technical support staff, administrative staff.

(3) Including all the Institution's operating expenses aside from catering and textbooks

The calculations used the number of students per academic unit within the regular duration of studies

Source: Economic Service of the Ministry for Education, Lifelong Learning and Religious Affairs

The calculation of the Average Annual Cost per student was done by the HQA

Table 4(b). Universities. Comparative data for operating costs - 2009 and 2011

University	1st	1st	1st	1st	Number of students (regular duration of studies)	Ratio of administrative staff to students	Ratio of teaching staff to students
	trimester 2011	trimester 2011	trimester 2011	trimester 2011			
National Technical University of Athens	284	738	1,022	575	5,490	1 to 5.4	1 to 9.5
Aristotle Uni. of Thessaloniki	634	532	1,166	2,230	25,315	1 to 21.7	1 to 11.4
Technical University of Crete	79	125	204	126	2,325	1 to 11.4	1 to 18.5
Athens University of Economics and Business	86	124	210	204	5,200	1 to 24.8	1 to 25.5
Agricultural University of Athens	119	142	261	192	2,020	1 to 7.7	1 to 10.5

University	Salaries ⁽²⁾ 2008-2009	Salaries ⁽²⁾ 2010-2011	Percentage reduction
National Technical University of Athens	60,183,141	58,599,090	2.63%
Aristotle Uni. of Thessaloniki	189,006,217	126,628,971	33.00%
Technical University of Crete	11,361,861	10,672,519	6.07%

Athens University of Economics and Business	14,071,380	12,838,013	8.77%
Agricultural University of Athens	16,945,015	15,093,896	10.92%

University	Total operating costs ⁽³⁾ 2008-2009	Total operating costs ⁽³⁾ 2010-2011	Percentage reduction
National Technical University of Athens	71,348,141	65,009,090	8.88%
Aristotle Uni. of Thessaloniki	237,126,317	157,028,971	33.78%
Technical University of Crete	17,326,861	14,722,519	15.03%
Athens University of Economics and Business	20,471,380	17,208,013	15.94%
Agricultural University of Athens	21,668,015	18,253,896	15.76%

University	Average annual cost per student 2008-2009	Average annual cost per student 2010-2011	Percentage reduction
National Technical University of Athens	11,813	11,841	-0.24%
Aristotle Uni. of Thessaloniki	8,750	6,203	29.11%

Technical University of Crete	8,290	6,332	23.62%
Athens University of Economics and Business	3,780	3,309	12.47%
Agricultural University of Athens	10,596	9,037	14.71%

(1) Regular Budgets for the financial years 2009 and 2011 respectively

(2) Permanent teaching staff, technical staff, administrative staff.

(3) Including salaries of permanent and temporary staff, operational expenses (aside from catering and textbooks), teaching, postgraduate programmes and grants

The calculations used the number of students per academic unit within the regular duration of studies

Source: Economic Service of the Ministry for Education, Lifelong Learning and Religious Affairs

The calculation of the Average Annual Cost per student, the ratio of students to staff, and the percentage reductions was done by the HQA

Table 5(a). Agricultural Schools. Comparative data for operating costs for teaching - 2009 and 2011

2009

Institution	Academic Units	Salaries ⁽²⁾	Salaries of temporary staff	Operational expenses ⁽³⁾	Teaching	Postgraduate programmes	Various grants	TOTAL	Number of students (regular duration of studies)	Average annual cost per student
Agricultural University of Athens	6	16,945,015	100,000	4,600,000	-	23,000	-	21,668,015	2,045	10,596
Agricultural School of the Aristotle Uni. of Thessaloniki	1	6,982,395	176,384	581,876	-	23,000	-	7,763,655	1,330	5,837
School of Agricultural Sciences, Uni. of Thessaly	2	2,284,273	366,445	281,658	-	-	-	2,932,376	425	6,900

2011

Institution	Academic Units	Salaries ⁽²⁾	Salaries of temporary staff	Operational expenses ⁽³⁾	Teaching	Postgraduate programmes	Various grants	TOTAL	Number of students (regular duration of studies)	Average annual cost per student
Agricultural University of Athens	6	15,093,896	60,000	3,100,000	-	-	-	18,253,896	2,020	9,037
Agricultural School of the Aristotle Uni. of Thessaloniki	1	5,310,921	189,026	25,223	-	-	-	5,525,171	1,220	4,529
School of Agricultural Sciences, Uni. of Thessaly	2	2,348,927	155,888	185,404	-	-	-	2,690,219	515	5,224

(1) Regular Budgets for the financial years 2009 and 2011 respectively

(2) Permanent teaching staff, technical staff, administrative staff.

(3) Including all the Institution's operating expenses aside from catering and textbooks

The calculations used the number of students per academic unit within the regular duration of studies

Source: Economic Service of the Ministry of Education, Lifelong Learning and Religious Affairs, Aristotle University of Thessaloniki, University of Thessaly

The calculation of the Average Annual Cost per student was done by the HQA

Table 5(b). Agricultural Schools. Comparative data for operating costs for teaching - 2009 and 2011

Institution	1st trimester 2011	1st trimester 2011	1st trimester 2011	1st trimester 2011	2010/2011		
	Administrative staff (permanent)	Administrative staff (private law no fixed duration)	Administrative staff (Total)	Permanent teaching staff	Number of students (regular duration of studies)	Ratio of administrative staff to students	Ratio of teaching staff to students
Agricultural University of Athens	119	142	261	192	2,020	1 to 7.7	1 to 10.5
Agricultural School of the Aristotle Uni. of Thessaloniki	16	20	36	95	1,220	1 to 33.9	1 to 12.8
School of Agricultural Sciences, Uni. of Thessaly	3	15	18	47	515	1 to 28.6	1 to 11.0

Institution	Salaries ⁽²⁾ 2008-2009	Salaries ⁽²⁾ 2010-2011	Percentage reduction
Agricultural University of Athens	16,945,015	15,093,896	10.92%
Agricultural School of the Aristotle Uni. of Thessaloniki	6,982,395	5,310,921	23.94%
School of Agricultural Sciences, Uni. of Thessaly	2,284,273	2,348,927	-2.83%

Institution	Total operating costs ⁽³⁾ 2008-2009	Total operating costs ⁽³⁾ 2010-2011	Percentage reduction
Agricultural University of Athens	21,668,015	18,253,896	15.76%
Agricultural School of the Aristotle Uni. of Thessaloniki	7,763,655	5,525,171	28.83%
School of Agricultural Sciences, Uni. of Thessaly	2,932,376	2,690,219	8.26%

Institution	Average annual cost per student 2008-2009	Average annual cost per student 2010-2011	Percentage reduction
Agricultural University of Athens	10,596	9,037	14.71%
Agricultural School of the Aristotle Uni. of Thessaloniki	5,837	4,529	22.42%
School of Agricultural Sciences, Uni. of Thessaly	6,900	5,224	24.29%

(1) Regular Budgets for the financial years 2009 and 2011 respectively

(2) Permanent teaching staff, technical staff, administrative staff.

(3) Including salaries of permanent and temporary staff, operational expenses (aside from catering and textbooks), teaching, postgraduate programmes and grants

The calculations used the number of students per academic unit within the regular duration of studies

Source: Economic Service of the Ministry of Education, Lifelong Learning and Religious Affairs, Aristotle University of Thessaloniki, University of Thessaly

The calculation of the Average Annual Cost per student, the ratio of students to staff, and the percentage reductions was done by the HQA

Table 6(a). Technical Universities. Comparative data for operating costs for teaching - 2009 and 2011

Table 6(a). Technology Schools - Comparative data for operating costs of teaching - 2009 and 2011⁽¹⁾

2009

Institution	Academic Units	Salaries ⁽²⁾	Salaries of temporary staff	Operational expenses ⁽³⁾	Teaching	Postgraduate programmes	Various grants	TOTAL	Number of students (regular duration of studies)	Average annual cost per student
National Technical University of Athens	9	60,183,141	500,000	10,400,000	-	265,000	-	71,348,141	6,040	11,813
Technical University of Crete	5	11,361,861	1,900,000	3,950,000	-	115,000	-	17,326,861	2,090	8,290
Faculty of Engineering, Aristotle Uni. of Thessaloniki	7	25,181,725	719,123	1,784,573	-	189,100	-	27,874,521	4,200	6,637

2011

Institution	Academic Units	Salaries ⁽²⁾	Salaries of temporary staff	Operational expenses ⁽³⁾	Teaching	Postgraduate programmes	Various grants	TOTAL	Number of students (regular duration of studies)	Average annual cost per student
National Technical University of Athens	9	58,599,090	260,000	6,150,000	-	-	-	65,009,090	5,490	11,841
Technical University of Crete	5	10,672,519	1,400,000	2,650,000	-	-	-	14,722,519	2,325	6,332
Faculty of Engineering, Aristotle Uni. of Thessaloniki	7	20,444,289	652,009	153,230	-	-	-	21,249,528	3,845	5,527

(1) Regular Budgets for the financial years 2009 and 2011 respectively

(2) Permanent teaching staff, technical staff, administrative staff.

(3) Including all the Institution's operating expenses aside from catering and textbooks

The calculations used the number of students per academic unit within the regular duration of studies

Source: Economic Service of the Ministry for Education, Lifelong Learning and Religious Affairs, Aristotle University of Thessaloniki

The calculation of the Average Annual Cost per student was done by the HQA

Table 6(b). Technical Universities. Comparative data for operating costs - 2009 and 2011

Institution	1st trimester	1st trimester	1st trimester	1st trimester	2010/2011	Ratio of administrative staff to students	Ratio of teaching staff to students
	2011	2011	2011	2011			
	Administrative staff (permanent)	Administrative staff (private law no fixed duration)	Administrative staff (Total)	Permanent teaching staff	Number of students (regular duration of studies)		
National Technical University of Athens	284	738	1,022	575	5,490	1 to 5.4	1 to 9.5
Technical University of Crete	79	125	204	126	2,325	1 to 11.4	1 to 18.5
Faculty of Engineering, Aristotle Uni. of Thessaloniki	28	83	111	327	3,845	1 to 34.7	1 to 11.8

Institution	Salaries ⁽²⁾ 2008-2009	Salaries ⁽²⁾ 2010-2011	Percentage reduction
National Technical University of Athens	60,183,141	58,599,090	2.63%
Technical University of Crete	11,361,861	10,672,519	6.07%
Faculty of Engineering, Aristotle Uni. of Thessaloniki	25,181,725	20,444,289	18.81%

Institution	Total operating costs ⁽³⁾ 2008-2009	Total operating costs ⁽³⁾ 2010-2011	Percentage reduction
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National Technical University of Athens	71,348,141	65,009,090	8.88%
Technical University of Crete	17,326,861	14,722,519	15.03%
Faculty of Engineering, Aristotle Uni. of Thessaloniki	27,874,521	21,249,528	23.77%

Institution	Average annual cost per student 2008-2009	Average annual cost per student 2010-2011	Percentage reduction
National Technical University of Athens	11,813	11,841	-0.24%
Technical University of Crete	8,290	6,332	23.62%
Faculty of Engineering, Aristotle Uni. of Thessaloniki	6,637	5,527	16.73%

(1) Regular Budgets for the financial years 2009 and 2011 respectively

(2) Permanent teaching staff, technical staff, administrative staff.

(3) Including salaries of permanent and temporary staff, operational expenses (aside from catering and textbooks), teaching, postgraduate programmes and grants

The calculations used the number of students per academic unit within the regular duration of studies

Source: Economic Service of the Ministry for Education, Lifelong Learning and Religious Affairs, Aristotle University of Thessaloniki

The calculation of the Average Annual Cost per student, the ratio of students to staff, and the percentage reductions was done by the HQA

Epilogue

The educational criteria for the operation of education secure the quality of the services and determine the necessary operational costs.

As can be seen from the example, if they are adopted as a whole, with pedagogical criteria and operational regulations for the educational work of the HEIs, this will lead to a better distribution of and savings on public funds.