



UNIVERSITY OF MACEDONIA
Economic and Social Sciences

A photograph of a modern university building with a grid-like facade, partially obscured by a green banner.

ENVIRONMENTAL STATEMENT
In Accordance with the EMAS Regulation 761/20011



Eco-Management and Audit Project
University of Macedonia

Thessaloniki July 2005



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RECTOR'S FORWARD

Dear members of the academic community of the University of Macedonia,

I would like to express –on behalf of the Rector's Office– our deepest joy for the fact that the University of Macedonia is the first University in Greece which, aiming at the minimization of its environmental impact, has preceded in the design and implementation of an Eco-Management and Audit Scheme in accordance with the European Regulation of EMAS.

In practice, and for the daily life of our university, the implementation of an Eco-Management and Audit Scheme implies: the recording of the current impact of the university's operation on the natural environment and the undertaking of direct actions against the most imminent problems, such as constantly reducing the consumption of electricity, petroleum, and natural resources, initiating programs for the recycling and management of waste, introducing environmentally friendly terms when it comes to the university's supplies of goods and services, as well as constantly sensitizing and providing further education and training to both students and personnel so that they can actively participate in the endeavor.

The Rector's Office of the University of Macedonia has honestly believed in and wholeheartedly supported this difficult and demanding project, both through the establishment of the EMAS Office in February 2005 as well as by facilitating the mission of the administrative organs of the project, that is, Assistant Professor Eftichios Sartzetakis, who is the Eco-Management and Audit System's Manager, the Environmental Team and the Environmental Council.

The University of Macedonia hopes to pave the way for other public and private agencies and to disseminate the 'know how' and the experience it has acquired in the process of designing and implementing an Environmental Management System so much to the local community of the city of Thessaloniki and the Region of Central Macedonia as well as to the broader Hellenic community.

Concluding, I would like to extend an invitation to each and every one of you, as members of the academic community of the University of Macedonia, to actively participate in the implementation of the Eco-Management Scheme so as for our university to evolve and stand out as the first "green" university in Greece.

The Rector and
Chairman of the Environmental Council

Professor Konstantinos Velentza



MESSAGE OF THE ECO-MANAGEMENT AND AUDIT SYSTEM'S MANAGER

Dear friends, members of the academic community,

Having reached the final stage for the certification of the Eco-Management and Audit System of the University of Macedonia according to the EMAS Regulation, I would like to thank all of you for your participation in our common effort for the actual inclusion of the environmental dimension in the every-day operation of our university.

Both the administration of the University of Macedonia and each one of you on an individual basis, have demonstrated your strong will for the materialization of ambitious environmentally oriented goals and commitments. Yet, such materialization is contingent on the daily bearing of each one of us. I firmly believe that all of us together, each contributing in ideas and actions, will manage to achieve the intrinsic and continuous amelioration of our environmentally oriented behavior as well as of the working conditions in our university. In such a manner we may achieve not only our formal objective, which is the certification of the project according to EMAS, but also our substantial goal, that is, the evolution of the University of Macedonia into a “model” for appropriate environmental behavior and for the dissemination of environmental information to other public and private organizations in Greece.

We hope that with the support and active participation of all in the daily application of the Environmental Management System, we will reach the position that will allow us to set and materialize increasingly higher and laborious environmental goals as we will be marching towards the attainment of “environmental excellence” and transforming the idea of sustainable development into praxis.

The Eco-Management and Audit System's Manager

Assistant Professor
Eftichios Sartzetakis

A handwritten signature in blue ink, appearing to read 'E. Sartzetakis', located below the printed name.



1. PRESENTING THE UNIVERSITY OF MACEDONIA

1.1 History

The University of Macedonia was established in 1990 and is the evolution of the former Graduate School of Industrial Studies (GSIS). The GSIS inaugurated its operation during the academic year 1957/58 as the “Higher School of Industrial Studies of Thessaloniki”. In 1966, and by Provision 4 of the Presidential Decree 4578/1966, the School was renamed into “Highest Industrial School of Thessaloniki” and was converted into a Legal Entity of Public Law. From academic year 1971/72 onwards, the studies in the Graduate Industrial School were divided so as to form the Departments of “Economic Science” and “Business Administration” respectively, each issuing corresponding degrees and PhD diplomas. The division into the two departments of a) Economic Sciences and b) Business Administration was effected by the Presidential Decree 436/1985 and each of the new Departments respectively offered a unified degree.

In 1990, and by Legislative Decree 147/1990, the GSIS was renamed into “University of Macedonia, Economic and Social Sciences” and at the same time there were established three new Departments, those of “International and European Economic Studies”, “Accounting and Finance” and “Applied Informatics”. In 1993 and by the Presidential Decree 122/93, the “Department of International and European Economic Studies” was renamed into “Department of International and European Economic and Political Studies”. The Department of “Educational and Social Policy” was established by Presidential Decree 267/93.

There were also established the following Interdepartmental Programs of Postgraduate Studies (I.P.P.S.):

- a) Master’s in “Economic Science” from the departments of Economics, Business Administration, and Accounting and Finance, with the Ministerial Decree No B1/710 (Issue of Governmental Gazette 799/6-10-93), the operation of which started in the academic year 1994-95.
- b) Master’s in “Business Administration” from the departments of Business Organization and Administration, Accounting and Finance, and Economics, with the Ministerial Decree No B1/713 (Issue of Governmental Gazette 787/6-10-93), the operation of which started in February 1995.
- c) Master’s in Information Systems from the departments of Economics, Business Organization and Administration, Accounting and Finance and International and European Economic and Political Studies, with the Ministerial Decree No B1/717 (Issue of Governmental Gazette 787/6-10-93 786/6-10-93), the operation of which started February 1997.

Τέλος, με το Π.Δ. 363/20-9-96, ιδρύθηκαν τα νέα Τμήματα “Βαλκανικών Σλαβικών και Ανατολικών Σπουδών” και “Μουσικής Επιστήμης και Τέχνης”, τα οποία δέχθηκαν για πρώτη φορά φοιτητές το ακαδημαϊκό έτος 1998/99. Στο Πίνακα 1 παρουσιάζονται όλα τα τμήματα του Πανεπιστημίου.

The Interdepartmental Programs of Postgraduate Studies (I.P.P.S.) have the po-



tential to collaborate with analogous postgraduate programs of recognized domestic and foreign Institutions of Higher Education and Research Institutes having at their disposal adequate scientific personnel and sufficient material and technical infrastructure.

Finally, with the Presidential Decree 363/20-9-96, two new Departments of “Balkan Slavonic and Oriental Studies” and “Music Science and Art” were established and accepted students for the first time in the academic year 1998/99.

Table 1 presents all the Departments of the University.

Table 1. Academic Departments and Interdepartmental Programs of Postgraduate Studies of the University of Macedonia.

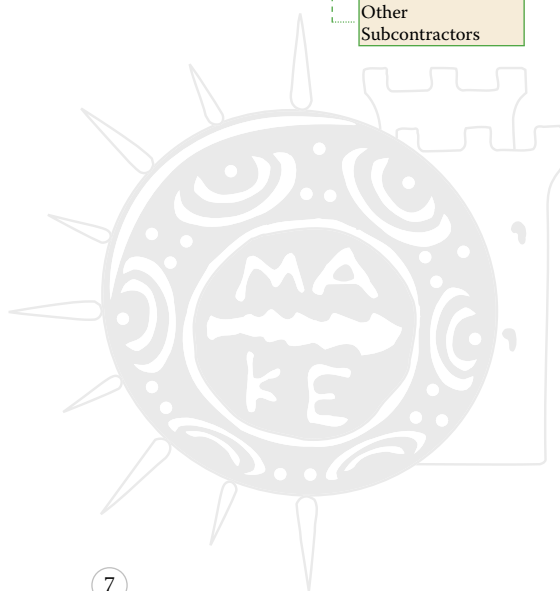
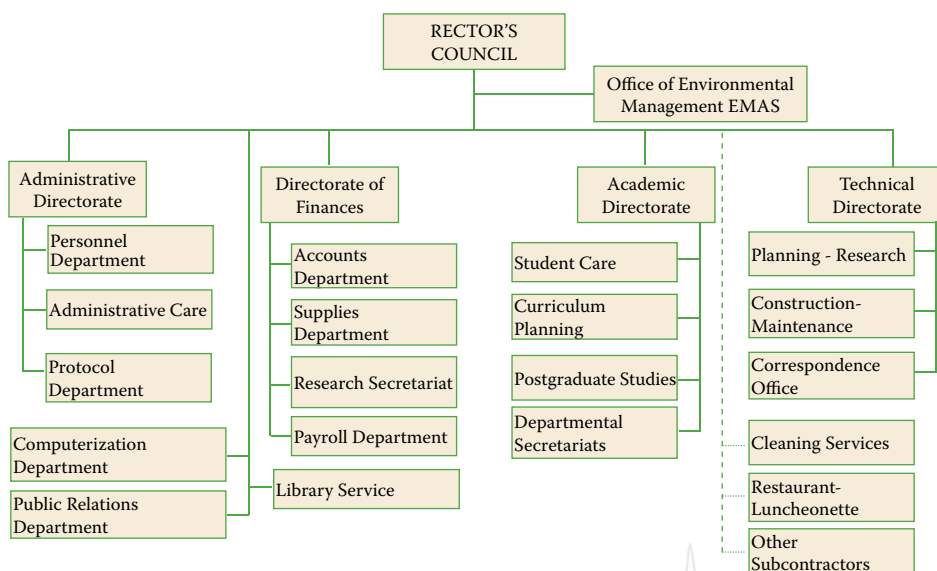
Academic departments of the University of Macedonia
Department of Economics
Department of Business Organization and Administration
Department of International & European Economic and Political Studies
Department of Accounting and Finance
Department of Applied Informatics
Department of Educational and Social Policy
Department of Balkan Slavonic and Oriental Studies
Department of Music Science and Art

Interdepartmental Programs of Postgraduate Studies
Master's in Economics
Master's in Business Administration
Master's in Information Systems (M.I.S.)
Accounting and Finance (P.G.S.P. - A/F)
International and European Economic and Political Sciences
Educational and Social Policy



1.2 Organizational Structure of the University of Macedonia

The University of Macedonia is a State University amenable to The Ministry of National Education and Religious Affairs. In accordance with the institutional framework of Higher Education (L.2083/92), the organs exercising the administrative management of the University are: the Senate, the Rector's Council and the Rector. The Senate is the highest administrative organ. In the context of independence of the country's Higher Educational Institutions (H.E.I.), the University's academic, administrative, and financial affairs fall into the Senate's. The Organization Chart of the University of Macedonia has the following structure:





1.3 Students – Personnel of University of Macedonia

1.3.1. Students

The number of students registered in the University and studying at the undergraduate and postgraduate level is 13.310 (statistical data of academic year 2004 – 2005).

Table 2 below presents the number of students registered in each department during the last four years, while Diagram 1 is a graphical depiction of this registration increase.

Table 2. Number of students per academic department of the University of Macedonia.

Department	Number of Students Registered				
	2000-2001	2001-2002	2002-2003	2003-2004	2004-2005
Economic Sciences	5.121	5.309	5.402	5.099	4817
Business Organization and Administration	4.229	4.352	4.472	4.708	4358
International and European Economic and Political Sciences	199	771	788	738	843
Accounting and Finance	205	913	856	936	965
Applied Informatics	134	566	640	686	884
Educational and Social Policy	230	248	283	301	330
Balkan Slavonic and Oriental Studies	184	249	283	306	327
Music Science and Art	80	109	164	184	216
Postgraduate Studies					
Economics	0	0	52	82	46
Business Administration (MBA)	140	173	225	160	357
Information Systems (MIS)	34	33	18	100	100
Accounting and Finance (PG.S.P. - A/F)					34
International and European Economic and Political Sciences					12
Educational and Social Policy					21
Total	10.556	12.723	13.183	13.300	13.310

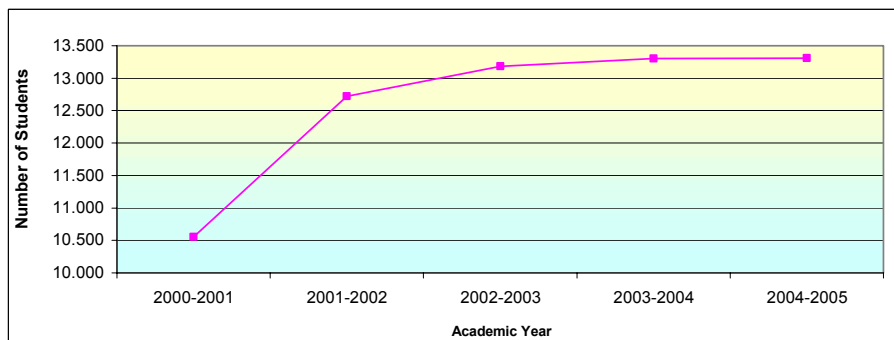


Diagram 1. Total Number of students registered in the University of Macedonia.

The working personnel of the University of Macedonia is divided in the:

- Academic Personnel consisted of 146 members of the Teaching and Research Personnel, 109 instructors under the Presidential Decree. 407/80, 23 members of the Special Educational & Teaching Personnel (S.E.T.P.) and Special Teaching Personnel (S.T.P.), and 29 members of the Special Technical Personnel (S.TECH.P.).
- Administrative Personnel, numbering 236 employees. In the Administrative there are also included individuals working under contracts of *indeterminate duration*, of *work*, of *employment*.

Table 3. Academic and Administrative Personnel of the University of Macedonia.

Academic Personnel	Academic Years				
	2000-2001	2001-2002	2002-2003	2003-2004	2004-2005
T.R.P.	108	116	133	145	146
S.TECH.P.	34	34	37	39	29
S.E.T.P.	11	11	10	14	22
S.T.P.	0	0	0	1	1
Teaching under P.D. 407/80	107	113	102	94	109
Administrative Personnel					
Permanent administrative personnel	44	43	50	51	54
Under contracts of indeterminate duration	20	65	74	74	74
Under 'work contracts'	100	100	105	105	108
Under 'employment contracts'	28	28	8	7	0
Total Number of Personnel	452	510	519	530	543

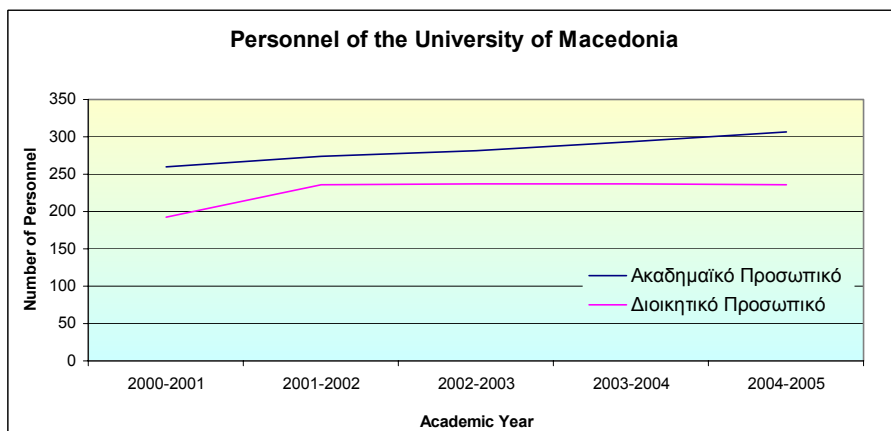


Diagram 2. Graphic depiction of the increase in the Personnel of the University of Macedonia 1.4 Description of Building Premises.

1.4 Description of Premises

1.4.1 Building Complex

The building complex of the University of Macedonia is constructed on proprietary ground and covers an area of 12.226,25 m², surrounded by Egnatia Avenue, 3rd September Street, and Gregoriou Lampraki Street. The University is situated within the limits of, and in close proximity to, the centre of the Municipality of Thessaloniki, to which it also belongs administratively. More specifically, the university is built on the area demarcated by the Aristotle University of Thessaloniki, the site of the International Fair of Thessaloniki, the Third Military Corps, and the 424 General Military Hospital. The construction of the building was completed in 1991, while quite recently there has been added a new auditorium, which has a capacity of 500 seats and the potential to be used both as a Conference Centre and as space for the organization of important cultural events.

The façade of the building is on Egnatia Avenue and has a north–eastern orientation. The construction license of the premises was issued in 1988. The premises have been constructed in compliance with the thermal insulation regulations and, following the original architectural design, insulating material has been used for both the external walls and the rooftop. The total area covered by the buildings and the general infrastructure of the university approximates the 35000 m².

The building complex has been constructed so as to be fully detached and is comprised by the administration building, the central auditorium, used for formal ceremonies, and six adjacent buildings (buildings Γ, Δ, Ζ, Η, Θ, Κ – see attached blueprint) of which the Γ and Δ are five-storied while the rest four-storied buildings. The administration building houses the Rectorship and a variety of administrative services.



The ground floor of the University houses the Central Ceremonial Auditorium, two more auditoriums used for course lectures, as well as the Secretaryship of the Interdepartmental Programs of Postgraduate Studies, the bookstore, the photocopy centre and the Publications' Office of the University of Macedonia. In addition, the same ground-floor space houses the students' restaurant, the lunchroom used by the members of the Teaching and Scientific Personnel, a luncheonette, and the sports hall as well as the gymnasts' offices. Access to the ground floor is possible from either the central entrance on Egnatia Avenue or the entrance on Gregoriou Lampraki Street.

The mezzanine houses all the Secretarial Offices of the academic departments, the offices of the department of Student Care Services, the Practical Training and Liaison office, and six lecture halls. Yet, the largest part of this level is covered by the University's Library, consisted of the Reading room, the Audio-Visual Media room, the Computerization and Networks' department, the Bibliography and Education hall, and the offices of the Library's Directorate, Secretary, Finances, and Orders.

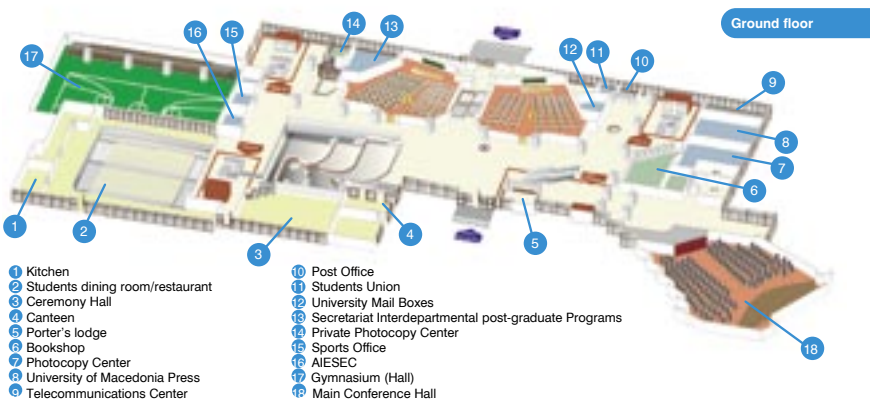
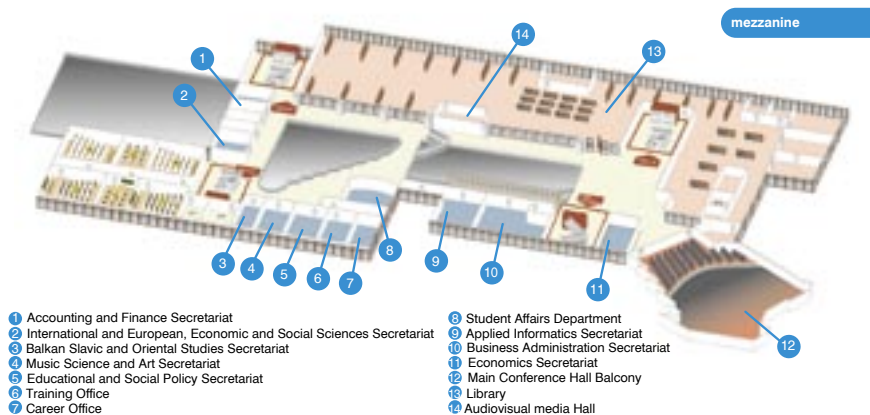
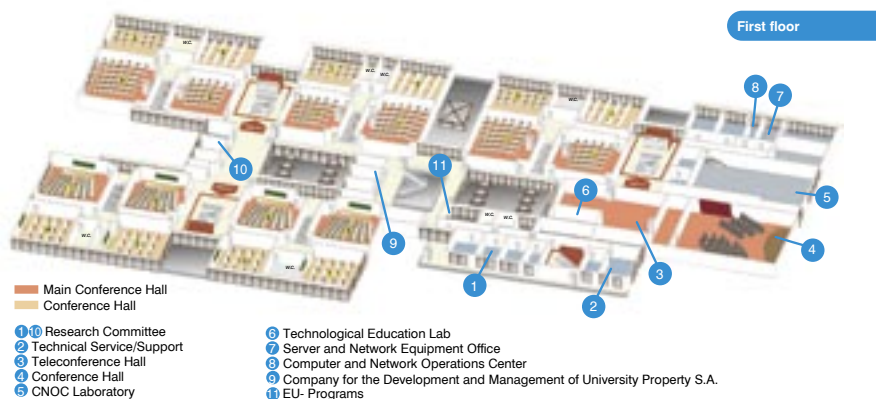
On the first floor of the University there are 10 lecture-halls and an equal number of seminar rooms. The same floor houses also the Tele-Education room, the Conference room, and the University's Computer Laboratory. Finally, the first floor accommodates the offices of the University's Research Committee, Technical Services, the Company for the Development and the Management of the Property of the University of Macedonia, and the EMAS office.

Building **Γ** houses all the services and offices of the Department of Applied Informatics (2nd–5th floor) while Building **Δ** houses all the services and offices of the Department of Economics (2nd–5th floor). The Department of Accounting and Finance is housed in Building **H** (2nd–4th floor), while the Department of Business Organization and Administration is housed in Building **Θ** (2nd–4th floor). Building **Z** houses the Departments of Educational & Social Policy (3rd floor) and Music Science & Art (4th floor), while, finally, Building **K** accommodates the Department of Balkan Slavonic and Oriental Studies (2nd floor) and the Department of International and European Economic & Political Studies (3rd–4th floor).

The land site of the University is integral and fit for building on, and covers a total area of 12.226,25 m².



UNIVERSITY OF MACEDONIA





2. ENVIRONMENTAL POLICY

The attached text has been approved by **no. 16/3-2-2004** decision of the Rector's Council and **no. 10/3-6-2004** decision of the Senate of the University of Macedonia.

The University of Macedonia, Economic and Social Sciences, envisages its upgrading into an "academic institution of environmental excellence", aiming at the maximization of its social, scientific and cultural contribution by means of transforming the concept of sustainable development into action.

For the realization of this vision, the University of Macedonia sets the following objectives: (a) the constant reduction, in as far as this is attainable, of the environmental impact of its operation by means of (i) saving of energy and natural resources (ii) opting for environmentally friendly supplies and (iii) preventing pollution, (b) the enhancement of the range and quality of the environmental education it provides as well as of its environmental activity and (c) the environmental sensitization of its personnel and students, and, more generally, the promotion of friendly to the environment forms of behavior.

In the course of the materialization of its environmental vision and goals, the University commits itself to:

1. Constantly improve, as much as this is technically feasible, the environmental performance of the Institution's activities, as well as the functioning of its Environmental Management Scheme. Proceed into appropriate actions so as to prevent the pollution and the environmental aggravation.
2. Promote effective ecological practices in the context of the operation of all the departments, committees and organizations of the institution, in full compliance with the environmental legislation in force and in accordance with relevant and widely accepted sound practices.
3. Design, develop and integrate into its academic curriculum new courses with environmental content, at both the undergraduate and graduate level.
4. Raise the sensitivity of its personnel and students in order for them to actively participate in ecological activities, and train the personnel on issues pertaining both to ecological practices and energy conservation as well as to Eco-Management and Audit.
5. Constantly, and in as far as this is technically feasible, reduce the consumption of energy, water and paper by implementing active interventions for the conservation of energy and natural resources, by adopting efficient waste-management systems and proper practices of internal functioning and communication, and, finally, by investigating the possibility as well as the financial benefit of future employment of alternative forms of energy.
6. Adopt environmental criteria with respect to its supplies of goods and services, to the point that this is practically feasible, refraining from the usage of harmful substances, products and processes in all occasions that this is possible. Adopt environmental criteria in the selection of subcontractors, taking into consider-



ation the environmental consequences of the realization of restorative or constructional works on the university's edifice and surrounding area.

7. Constantly improve the working environment of the institution for the purpose of ensuring the good health and safety of its personnel and students.
8. Explore and encourage forms of student and personnel transportation to the university such that can minimize negative environmental consequences.
9. Designate and develop special smokers' spaces in all the communal and work premises of the institution.
10. Collaborate with local, national and international-level agencies for the dissemination of environmental policies.

Finally, the University of Macedonia will attempt to infuse its environmental vision with flesh and blood by laying out the technical specifications of the ideal environmentally friendly university, with the aim of putting them into effect during the construction of its future premises.

The present text is distributed to all the students and members of the institution's personnel and to whomever else is interested. It is also available online at www.uom.gr/emas. For more information, please contact the EMAS Office of the University.

Date: **June 3rd 2004**

The Senate

Members of the Teaching & Research Personnel

Konstantinos Margaritis (Vice Rector, Carrying out Rectorial Duties)
Dimitrios Ioannidis (Departmental Cochairman),
Stiliani Xirotiri-Koufidou, Nikolaos Apergis, Chrysanthi Themeli, Anastassios Katos, Achilleas Kapsalis, (Chairpersons of Departments),
Elias Katsikas, Ekaterini Gotzamani, Georgios Spiropoulos, Georgios Michalopoulos, Stayros Tsopoglou, Areti Okalidou, Konstantinos Hasiotis, (members of the Teaching & Research Personnel).

Other Representatives

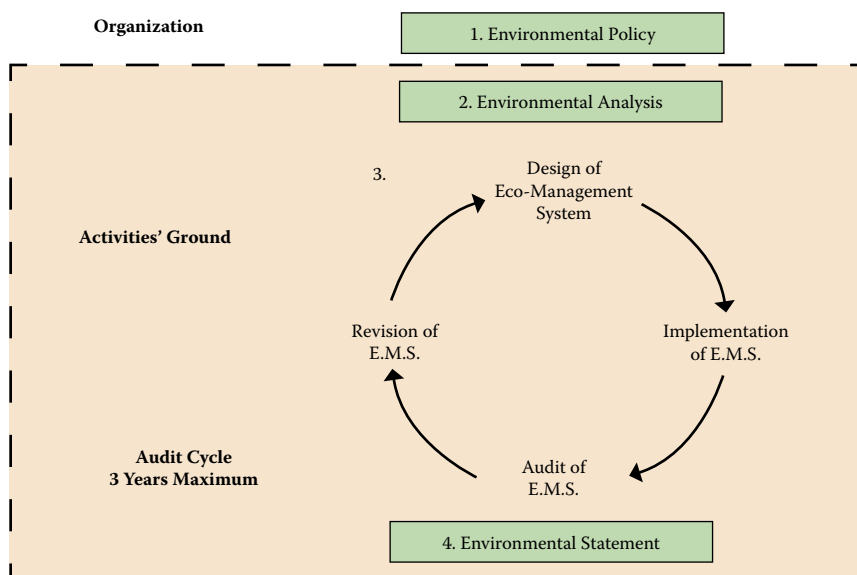
Theofilos Masmanidis, (S.E.T.P.), Aggeliki Dimopoulou (S.T.P.), Maria Alta (S.T.E.P.) Charikleia Theodosiadou (Administrative Personnel), Petros Egglezos, Eftichis Pezikoglou and Athanassios Michalieris (Student Representatives).



3. ECO-MANAGEMENT SCHEME ACCORDING TO EMAS

3.1 Structure of the Environmental Management

The Environmental Management System (E.M.S.) that the University of Macedonia decided to adopt is based on the principle of the accomplishment of continuous environmental improvement, in accordance with the European Regulation EMAS (761/2001: Eco – Management and Audit Scheme). The main stages for the development of the EMAS are schematically presented below:



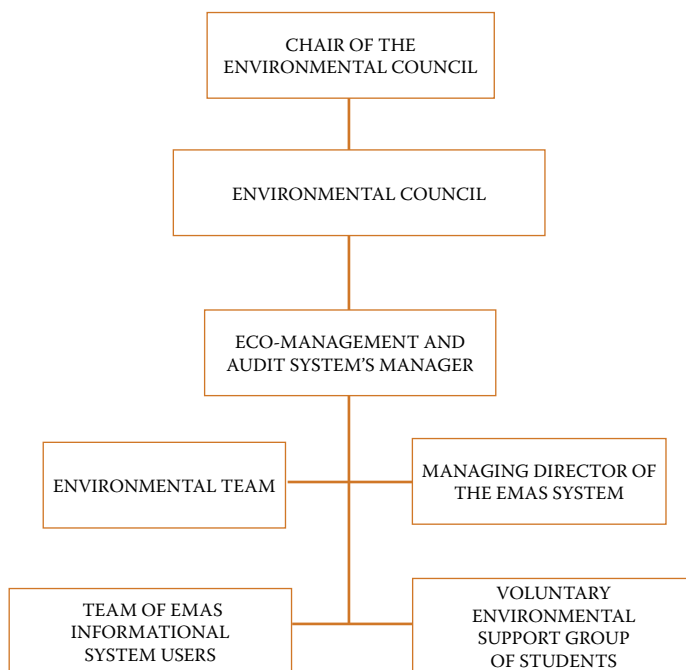
The actions carried out for the EMAS implementation were the following:

- establishment by the Institution's Rector's Office of the **Environmental Policy**, prescribing the basic principles and the priorities of the organization in relation to environmental issues and presenting the organization's commitment to the constant environmental improvement of its operation,
- carrying out the **Environmental Review** in which the organization's operations were analytically examined with respect to the environment (**Environmental Aspects**),
- establishment of **Environmental Objectives & Goals** for the improvement of the environmental performance of the organization,
- laying out the **Environmental Program** for the accomplishment of the established Environmental Goals,
- development, documentation and operation of the **Environmental Management System**, in the context of which, and through appropriate procedures, there took place the specification of all the necessary activities for the satisfaction of the Regulation's requirements (spheres of personal responsibility, per-



3.2 Collective Bodies

For the implementation of the Institution's Environmental Policy and the operation of the Environmental Management System, there has been created the appropriate organizational structure. The primary collective bodies of the System are the Environmental Council and the Environmental Team.



The Environmental Team examines the environmental objectives and goals and reports to the Environmental Council, in the context of the Environmental Management System's Review. Moreover, in the course of the review, the Project Manager of the Environmental System draws up the Aggregate Environmental Program, which is then approved by the Environmental Council and put into action.

The Environmental Team quantifies the prescribed environmental goals, for the monitoring of which there takes place the establishment of environmental indicators. The partial Environmental Programs are developed and materialized by their respective Managers. The evolution of the programs is monitored by the members of the Environmental Team, who record the progress of the respective indicators. The Assignment of Responsibilities takes place in accordance with the homonymous procedure EP 130 of the EMS, while the jurisdictions and the functioning of the primary Collective Bodies are analyzed in the context of EP 160.



3.3 Documentation of the Environmental Management System

The Environmental Management System has been structured so as to be composed of three levels, as shown in the schematic representation below. The three levels of the University's Documents are divided as follows:

A. Strategic Level: This is represented by the present handbook of Environmental Management, describing the organizational structure of the Institution and referring to the Procedures of the Eco-Management System.

B. Tactical Level: This level is comprised by the general and specific procedures regarding the Eco-Management System as shown in Table 3 below.

C. Operational Level: This level of documents includes all the Environmental Documents, such as the System's Guidelines and Records, and all the relevant legislative texts, regulations, and permits.

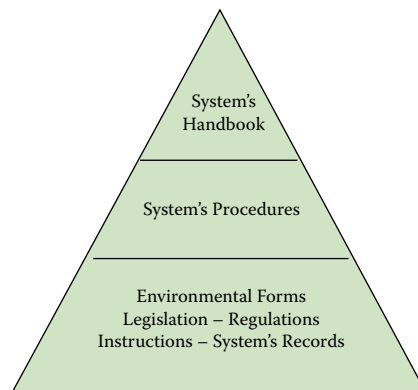


Table 3. Procedures of the Environmental Scheme EMAS of the University of Macedonia.

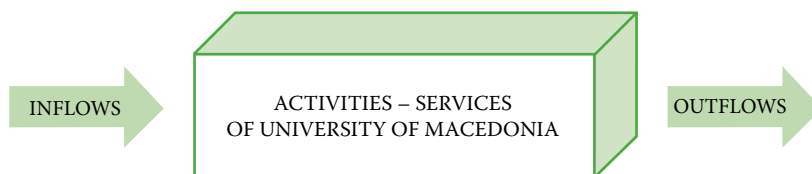
EP 100	Environmental Procedures	EP 250	Selection – Inspection of Sub-Contractors
EP 110	Document Control	EP 260	Supplies of Materials and Equipment
EP 120	Legislative Requirements	EP 310	Waste Management
EP 130	Assignment of Responsibilities	EP 320	Paper Recycling
EP 140	Training of Personnel	EP 330	Aluminum recycling
EP 150	Training of Students	EP 340	Energy Management
EP 160	Collective Bodies	EP 350	Recycling of Batteries
EP 170	Internal – External Communication	EP 360	Recycling of Electric–Electronic Equipment
EP 180	Internal Audits	EP 410	Monitoring of Environmental Indicators
EP 190	Reviews – Modifications	EP 420	Calibration of Instruments – Devises
EP 210	Environmental Audit	EP 430	Equipment Maintenance
EP 220	Environmental Objectives and Goals	EP 440	Corrective and Preventive Actions
EP 230	Environmental Programs	EP 510	Hygiene and Safety
EP 240	Environmental Statement	EP 520	Handling Emergency Cases



4. ENVIRONMENTAL ASPECTS

4.1 Environmental Equilibrium

The identification of the Environmental Aspects is effected through the analysis of the Flow of Materials with the use of an Environmental Equilibrium in accordance with paragraph 2 of Supplement I of the EMAS Regulation, “Guidelines for the Environmental Statement in the EMAS context”.



The University’s Inflows are consisted mostly of expendable materials (paper, ink, graphite carbon, packaging and wrapping materials, detergents, foodstuff, maintenance materials, etc.), electric energy, petroleum and water. There are also the non-expendable materials, such as furniture, electronic computers, and the electromechanical equipment.

The aforementioned inflows are utilized for the execution of the activities that take place in the University and in the provision of Services. The main operations are those of the educational instruction of students and of scientific research, as well as the hosting of conferences, day-conferences, educational seminars and events. The institution is also equipped with the necessary supportive services such as the accounts department, the supplies department, the technical service, the departmental secretariats, the directorates of personnel and financial management. These services are subject to the thorough administrative control of the University’s administrative authorities. However, a number of supportive services are subcontracted to external suppliers, such as the cleaning and the restaurant services, the organization of various events, and the carrying out of specific building works and works for the maintenance of equipment.

The Outflows ensue from the University’s operation and they sum up to the emission of exhaust fumes, solid wastes, liquid wastes, smells and noise. Some of these waste materials are characterized by a strong potential of being re-used or recycled. The outcomes and the reciprocal interrelations entailed in the flow of materials are analyzed in the Environmental Equilibrium that follows.

The environmental consequences are distinguished into direct, indirect, and exigent, depending on whether the activities that generate them are subject to the administrative control of the university, or not, and on whether they result from the occurrence of some incident. Consequently, the subcontracted cleaning, food,



and maintenance services, as well as the transportation of students to the institution are considered as indirect activities, while those that ensue from incidents such as an outbreak of fire, an earthquake, or a boiler-room leakage are considered as exigent.

There is no significant differentiation between the environmental consequences resulting from the regular and the non-regular operation periods of the University (evening hours, Weekends, vacation periods) other than possibly the quantities of the emitted pollutants, the refuse and the liquid wastes. There has been observed a quantitative increase of the above in the course of the evolution of the University in time, owing to the augmentation of its activities and to the increase in the hours of its operation. No change is observed, however, in the type of the University's inflows and outflows, the environmental significance of which is subjected to reassessments.

4.2 Assessment of Consequences

The environmental aspects of the University are hierarchically ranked on the basis of their environmental significance into two categories: **Non – Significant** and **Significant**. This type of ranking is based on the following four criteria:

- Magnitude of the Impact
- Likelihood–Frequency of the Impact's Occurrence
- Legislation
- Expressed Interest of Social Agents

The first criterion is related with the quantity or magnitude of the impact, while the second concerns the probability – frequency of this impact's occurrence. The third criterion concerns the existence, or not, of relevant Community or national legislation. On the basis of the existing legislative terms and provisions, for the assessment of the university's activities there is made use of the legislative base that has been compiled in accordance with Environmental Procedure **E.P. 120 – “Legislative Requirements”**, also available on the Website of the EMAS Office at (www.uom.gr/emas). This directory of Environmental Legislation presents the Greek and the European Legislation separately and is structured on the basis of the following sections:

- General Issues
- Atmosphere
- Solid Wastes
- Liquid Wastes
- Noise
- Hygiene and Safety – Occupational Hazards

The fourth criterion has to do with the impact of the University's activities on the Institution's employees and personnel, the Senate and other administrative bodies, as well as on the local community and agencies.

The methodology followed for the identification of the Environmental Aspects of the University's activities and the assessment of the significance of these aspects is described in Environmental Procedure **E.P. – 210 “Environmental Audit”** of



the E.M.S. The Environmental Team is responsible for the realization of the Environmental review, the identification and assessment of the environmental aspects and the maintenance of the relevant records. The Environmental Council examines and approves the Environmental Review after its first completion and then on an annual basis or after each and every revision.





4.3 Direct Consequences

	INFLOWS	ACTIVITIES	ENVIRONMENTAL ISSUES	ENVIRONMENTAL CONSEQUENCES	ASSESSMENT OF CONSEQUENCE
1	Heating Oil (Diesel)	Operation of Boilers for the heating of the building	Aerial Emissions (CO ₂ , SO ₂ , NO _x , HC, CO, soot)	Increasing global temperature Polluting the atmosphere Decreasing non-renewable natural resources	Significant
2	Electric energy	Illumination – Air-conditioning of the building. Use of electric and electronic devices	Heat locally Heat and exhaust fumes during the production of the electric energy Leakage of refrigerant	Increasing local temperature Increasing global temperature Decreasing non-renewable natural resources Polluting the atmosphere Decreasing the thickness of the Ozone layer	Significant
3	Electric batteries	Use of Electric batteries	Solid wastes	Hazardous wastes Decrease of non-renewable resources	Significant
4	Electronic computers	Use of Electronic computers	Solid wastes	Decreasing non-renewable resources Consuming energy	Significant
5	Paper	Educational activities University Editions Institutions Administration	Solid wastes	Decrease of non-renewable resources Deforestation	Significant
6	Printing – photocopying material		Solid wastes	Decrease of non-renewable resources	Significant
7	Unfit to be used pieces of furniture and apparatuses	Disposal of non-usable materials	Solid wastes	Decrease of non-renewable resources Exhaustion of natural resources Energy consumption	Non Significant
8	Water	Catering services - Drinking Cleaning services Use of hygiene facilities	Urban wastes Use of Detergents Solid organic wastes Leakaging of cleaning material	Decrease of non renewable natural resources Soil and water pollution Improper use of earth land Pollution of sea waters	Non Significant
9	Tin-canned soft drinks	Catering services - drinking	Solid wastes	Decrease of non renewable natural resources Energy consumption	Non Significant



4.4 Indirect Consequences

INFLOWS	ACTIVITIES	ENVIRONMENTAL ISSUES	ENVIRONMENTAL CONSEQUENCES	ASSESSMENT OF CONSEQUENCE
1 Cleaning Chemicals	Cleaning of the Institution	Solid wastes Liquid wastes Noise	Environmental Pollution Possible hazards for the personnel Noise pollution – Nuisance	Significant
2 Petrol - Lubricants	Personnel and students' transportation by private cars	CO ₂ , NO _x , HC, C ₁ particles Lubricants - Oils Spare parts Vehicles at the End of their Life Cycle	Increasing global temperature Heightening of traffic problems Pollution of soil, atmosphere Noise Decreasing Non renewable resources	Significant
3 Foodstuff	Catering services Meal Production	Solid wastes Liquid wastes Smells – Noise	Soil and water pollution Nuisance	Non Significant
4 Informational material, posters, brochures	Team activities and advertising of external services	Solid wastes Poster posting Littered printed material	Exhaustion of natural resources Aesthetics pollution Downgrading of interior space	Non Significant
5 Chemicals and inert maintenance materials	Building maintenance and renovation. Subcontractors	Solid wastes Liquid wastes – Chemicals - Noise	Soil and Water pollution Possible hazards for the personnel – Noise pollution	Non Significant



4.5 Consequences in Conditions of Exigency

	ENVIRONMENTAL ISSUES	OUTFLOWS	ENVIRONMENTAL CONSEQUENCES	ASSESSMENT OF CONSEQUENCE
1	Leakage in the boiler room	Solid wastes Gaseous pollutants Smells	Environmental Pollution Possible hazards for the personnel Exhaustion of natural resources	Significant
2	Earthquake	Solid wastes Liquid wastes Gaseous Pollutants Noise	Environmental Pollution Possible hazards for the personnel Soil – Subsoil Pollution	Significant
3	Fire	Solid wastes Liquid wastes Gaseous Pollutants Noise Smells	Possible hazards for the personnel Pollution of soil, atmosphere Noise pollution	Non Significant



5. ENVIRONMENTAL PROGRAMS AND GOALS

A/A	OBJECTIVE	ENVIRONMENTAL INDICATOR	ENVIRONMENTAL GOAL 2005 – 2006	RESPONSIBLE FOR MATERIALIZATION
1	Electric Energy Saving	Total annual consumption of electric energy to the total number of hours of the University's operating instruction spaces (kWh/h of operation).	Reduction 2%	Director of the University's Technical Service
2	Thermal Energy Saving	Total annual consumption of thermal energy to the total number of hours of the University's operating instruction spaces (kWh/h of operation).	Reduction 2 %	Director of the University's Technical Service
3	Reduction in the Paper consumption per employee	Total annual paper consumption to the total number of employees (kgr of paper / number of employees).	Reduction 5 %	Directors of the Supplies department and the EMAS Office
4	Paper Recycling	1. Quantity of paper consumed on a monthly or annual basis (kgr/ month - kgr/year) 2. Percentage of recycled paper (kgr of recycled paper / kgr of consumed paper)	30 % Recycling	Director of the EMAS Office
5	Reuse of Cartridges and Toners for printers	The percentage of Cartridges and Toners reuse	15 % Reuse	Directors of the Supplies department and the EMAS Office
6	Actions / Events for the Environmental Sensitization of the Personnel	1. The number of events and educational programs 2. The participation of the personnel in environmental actions – events 3. The number of individuals actively involved in the implementation and operation of the Environmental Management System	Organization of 3 Events	Director of the EMAS Office
7	Actions / Events for the Environmental Sensitization of the Students	1. Number of individuals participating in environmental teams and actions	Organization of 2 Cycles of Seminars on Environmental Training	Directors of Environmental Training and the EMAS Office
		2. Number of organized day conferences, seminars, courses	3 Sensitization actions/ events	Director of the EMAS Office
		3. Number of students attending courses of environmental content	Attendance of courses of environmentally friendly content by 150 students	Rectorship –Curriculum Planning and Environmental Management Directors



A/A	OBJECTIVE	ENVIRONMENTAL INDICATOR	ENVIRONMENTAL GOAL 2005 – 2006	RESPONSIBLE FOR MATERIALIZATION
8	Improvement of Health and Safety conditions in the University areas	1. Number of seminars on Health –Safety 2. Number of employees who attended the seminars 3. Number of accidents - injuries	3 Seminars for the personnel	Director of the EMAS Office - Director of the University's Technical Service
			Number of participants in the seminars: 80	
			Maintenance of the HAACCP System	
9	Environmental information – sensitization of citizens and students	1. Number of environmental events and of respective participants 2. Number of students who will attend the courses of environmental education 3. Number of participants in environmental day conferences	Organization of 2 day conferences and 2 sensitization activities. Participation in 2 conferences of environmental content	Director of Environmental Management
			Commencement of the Program of Environmental Education of Primary and Secondary Education students. Operation of the Environmental Kiosk. Course instruction to 350 students	Director of Environmental Management
10	Submission of Proposals for participation in European and national programs of environmental content	Number of proposals to be submitted	2	Director of Environmental Management
11	Ecological Supplies of Materials - Services	Number and kind of supplied products and services the environmental friendliness of which has been taken into consideration	1. Use of environmentally friendly detergents by the cleaning services 2. Supply of recycled paper at 5% of the total quantity used 3. Use of environmentally friendly refrigerants 4. Supply of low energy-consumption lamps 5. Supply of low energy-consumption electronic equipment	Directors of the Supplies Department and of the EMAS Office



6. ENVIRONMENTAL PERFORMANCE OF THE UNIVERSITY OF MACEDONIA

The EMAS Office of the University of Macedonia, in the context of the implementation of the Environmental Management and Audit Scheme, keeps a record of all the aggregate data pertaining to the environmental aspects and performance of the institution. The environmental data base of the University concerns the:

- Consumption of thermal and electric energy.
- Produced quantities of gaseous pollutants on both a local and a national level, ensuing from the Institution's operation.
- Consumption of paper and cartridges - toners.
- Quantities of recycled paper, cartridges - toners, aluminum, electric and electronic equipment.
- Activities for the Environmental sensitization of personnel and students.
- Hours of operation of the University's instruction rooms and lecture halls.

The maintenance of the aforementioned database contributes to the close monitoring of the environmental indicators and the environmental performance of the University by the members of the Environmental Team as well as to the taking of appropriate corrective actions or to the periodic revisions of the Environmental Programs, when these diverge from their prescribed goals.

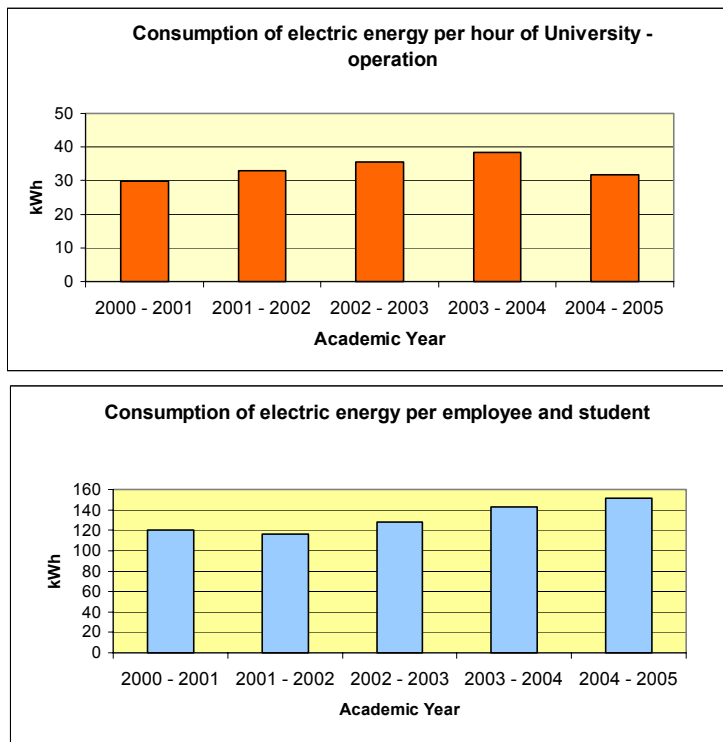
6.1. Energy Consumption

Electric Energy

Today the annual consumption of electricity is that of about 2.100 MWh and the requirements are being steadily increased. The main reasons for this increase are:

- the increase in the use of autonomous air-conditioning devices in the offices and the expansion of such use in the auditoriums and lecture halls that took place in the academic year 2004 – 2005
- the increase in the hours of the University's operation, even during non-working days, and the continuous expansion of the University's activities. More specifically, many teaching spaces are now operating in late afternoons, as well as during the Weekends, in the context of the teaching of departments of the Open Greek University and in that of the organization of educational and training programs, seminars, and day conferences. The graphs that follow show the electric energy consumption¹ per hour of the University's operation and per employee/student.

1. Academic Year: 2004 – 2005: Estimation for the consumption during the two-month period of June – August



The actions unfolding during the present phase concern:

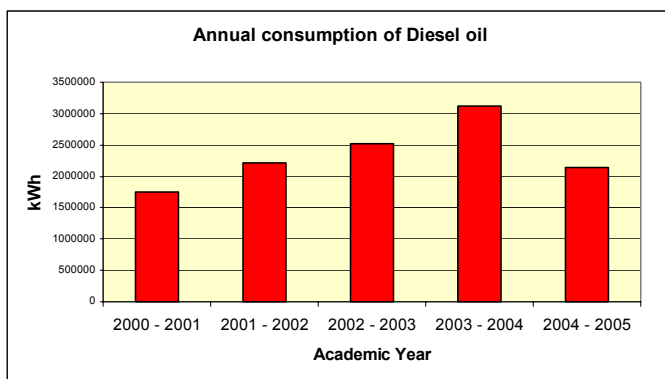
- Interventions in the University's refrigeration circuit. Installation of electric sluice valves for the control of the circuits in the cooling room.
- Replacement of the existing spherical sluice valves with butterfly valves (manual) as pre-circulatory insulation instruments, due to the problematic functioning of the former.
- Replacement of faulty circulators.
- Optimal regulation of the parameters of the system monitoring the air-conditioning of the University.
- Checking and maintenance of the air-conditioning equipment.
- Periodic replacement of the lighting units in the auditoriums and lecture halls with low energy- consumption lamps.
- Rising the personnel's awareness with regards to good environmental practices and to the possibilities of saving energy in the context of using the building's air-conditioning and illumination systems and electric devices.

Thermal Energy

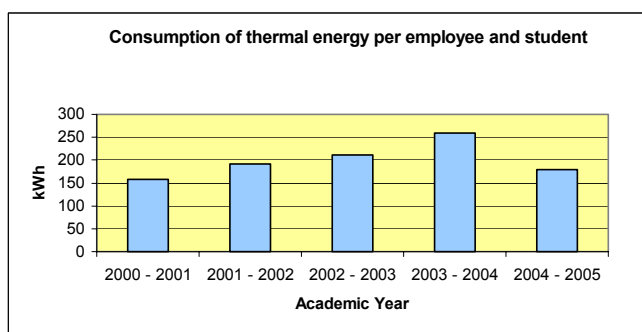
Today the annual consumption of heating oil (Diesel) is that of about **215** tons for the heating of all the premises of the University. The thermal needs of the insti-



tution are serviced by three Diesel-burning boilers the calorific power of which is **1.250.000 kcal/h** per boiler. The three boilers are connected in parallel with a total emitting power of **3.750.000 Kcal/h**. The examination of the building's energy related data showed that the consumption of thermal energy is at satisfactory levels, due to both the efficient heat insulation and to the excellent maintenance of the boilers as well as to the energy related interventions that were implemented during the last two years. The total annual consumption is considerably lower than that of other public edifices. The following Diagram shows the fluctuations in the consumed thermal energy from academic year 2000 – 2001 to academic year 2004 - 2005.



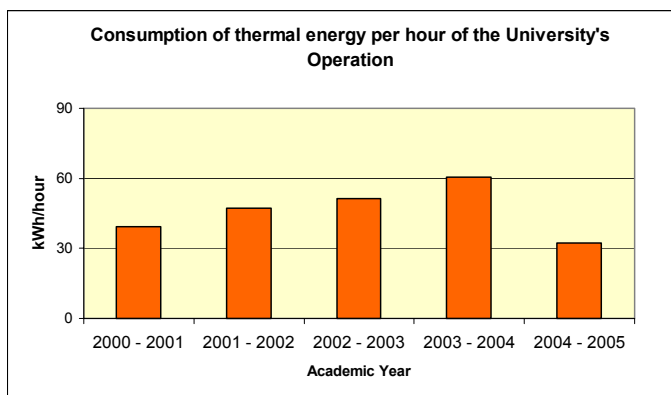
Despite the anticipated nominal increase in the consumption of thermal energy, when converted so as to express the thermal energy consumed per hour of the University's teaching operations, this consumption has shown a considerable decrease.



This reduction owes itself to the energy-saving interventions that took place in the University, as well as to the improvement of the energy related behavior of the personnel as a result of the seminars organized by the University's Technical Service on the issue of energy saving. The following Diagram shows the reduction



in the consumption of thermal energy to approach levels nearly comparable with those of the academic year 2000 – 2001.



For the improvement of the energy related conduct of the University, there took place a series of energy related interventions in the heating circuits. These interventions had to do with the:

- Installation of electric sluice valves for the monitoring of the heating circuits in the boiler room,
- Purchase of automations and of a switchboard in order for them to be connected to the existing switchboard and timers,
- Replacement of the malfunctioning spherical isolation valves in the boiler room with new ones,
- Replacement of faulty circulators,
- Replacement of sections of the pipeline with new ones in all branches of the piping,
- Pilot installation of thermostatic valves and calorimeters in offices, in order to make possible the regulation of the temperature by the users themselves as well as the measurement of the consumed energy,
- Realization of a Feasibility Study for the substitution of the Diesel oil used for heating with Natural Gas. The commencement of the works for the construction of the natural gas network that will supply the boilers has been scheduled to take place in the course of the academic year 2005 – 2006.

Other Activities:

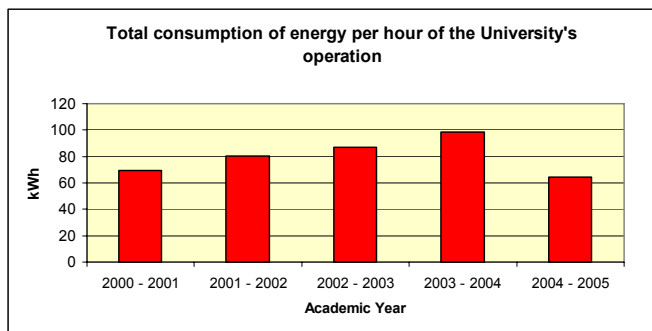
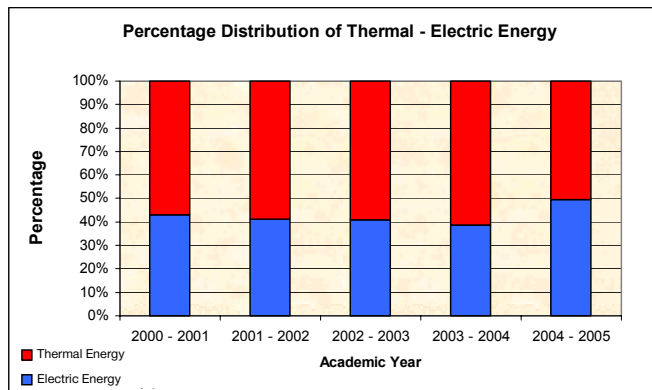
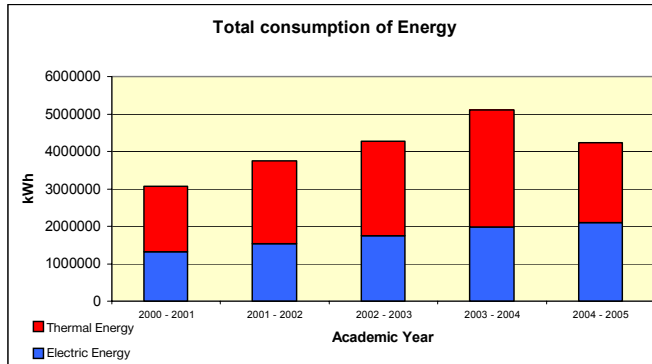
- Optimal regulation of the parameters of the system that monitors the University's heating,
- Raising the personnel's awareness with regards to good environmental practices and to the possibilities of saving energy in the context of using the heating system.
- Monitoring of the consumption of Diesel oil and of the emitted pollutants on a periodic basis.



The total consumption of energy (thermal and electric) in the University of Macedonia during the last five years is shown in the table below, followed by the Diagrams of the percentage distribution of Thermal – Electric energy and of the fluctuation of the total energy consumption indicator per hour of the Institution's operation.

	Academic Year				
	2000 - 2001	2001 - 2002	2002 - 2003	2003 - 2004	2004 - 2005
Annual consumption of electricity (kWh)	1323429	1541157	1748817	1980303	2100000 ²
Annual consumption of Diesel burning oil (kWh)	1746750	2210770	2525590	3126330	2141170
Total annual consumption of energy (kWh)	3070179	3751927	4274407	5106633	4241170

2. Estimation.



Relevant Environmental Procedures:



- EP 340 Energy Management
- EP 410 Monitoring of the Environmental Indicators
- EP 430 Equipment Maintenance



6.2 Gaseous Emissions

The gaseous emissions emanate from:

- On a local level, the burning of Diesel oil for the heating of the University's premises,
- On a national level, the burning of lignite (brown coal) for the production in the plants of the Public Enterprise of Electricity (Δ.Ε.Η) of the electricity consumed in the Institution.

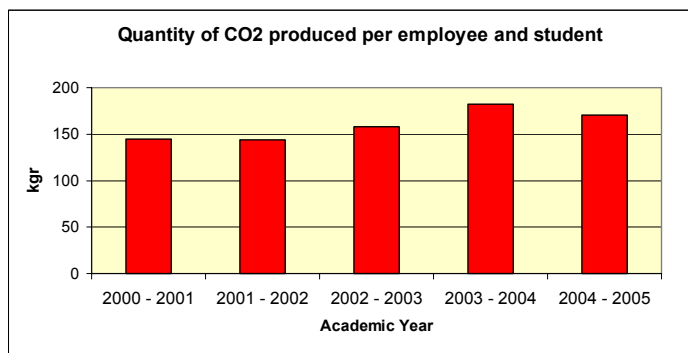
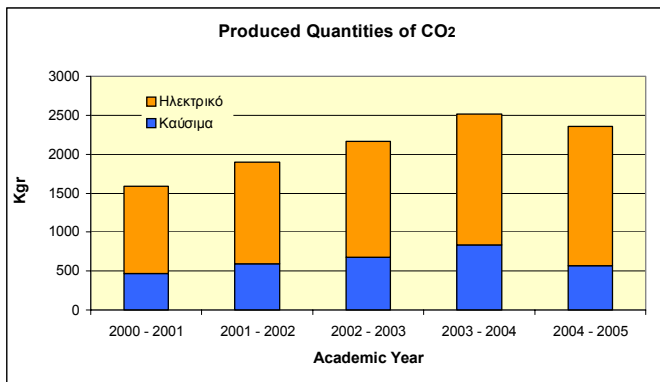
As already mentioned, the regular maintenance and good functioning of the three boilers contributes to keeping the emission of gaseous pollutants at low levels. In accordance with the relevant measurements, the internal degree of the performance of the three boilers' approaches an average of **92 %**, while the content of the burned gases in CO₂ is about **12,1 %**, thus satisfying the requirements and the limits set by the legislation regarding the performance of hot water boilers supplied with liquid fuels.

The gaseous pollutants are monitored and recorded in regular time intervals while by the end of the academic year the Environmental Team carries out a process of assessing the magnitude of their total produced quantity. The following Table shows the produced quantities of the major types of gaseous pollutants, as these have been estimated on the basis of a methodology³ used by the Ministry of Development.

Total Produced Quantity of Pollutants						
Academic Year	2000 - 2001	2001 - 2002	2002 - 2003	2003 - 2004	2004 - 2005	Measuring Unit
Pollutant						
CO ₂	1591	1900	2161	2518	2357	ton/έτος
SO ₂	20617	24019	27257	30881	32677	kgr/έτος
CO	323	385	438	508	482	kgr/έτος
NO _x	1942	2297	2610	3010	2954	kgr/έτος
HC	95	113	128	150	140	kgr/έτος
Particles	1101	1287	1460	1660	1732	kgr/έτος

More specifically, the quantity of the CO₂ produced during the academic year 2004 – 2005 exhibited a reduction, having moved from that of 2518 tons per year to 2357 tons (2003 – 2004), as shown in the following Diagram.

3. Ministry of Development. – Operational Program Energy - Measure 2.2: Guide for Energy Investments.



Relevant Environmental Procedures:

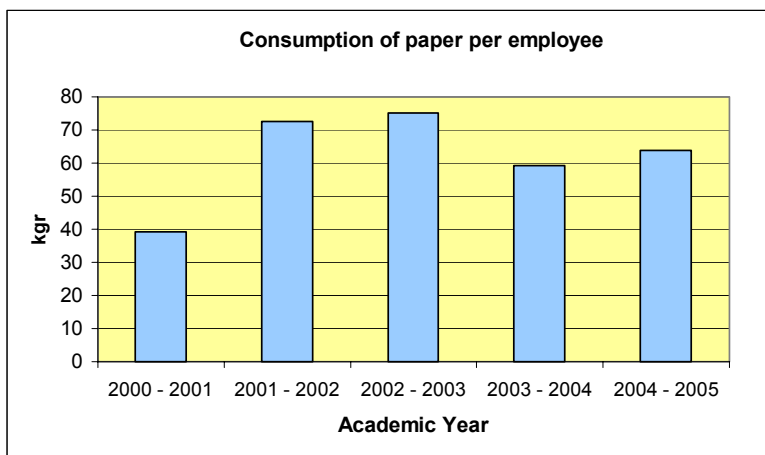


- EP 340 Energy Management
- EP 410 Monitoring of the Environmental Indicators
- EP 430 Equipment Maintenance



6.3 Paper Consumption

34 tons of paper are used today on an annual basis, an amount corresponding to an average consumption of about 64 kg per employee. The following Diagram shows the specific per employee consumption of paper during the last five years.



As it can be seen in the above Diagram, during the implementation and the pilot application of the Environmental Management Scheme (2003 – 2004 and 2004 – 2005) the consumption of paper was stabilized at more or less the same levels, exhibiting a considerable reduction in the order of 15% when compared with that of the academic year 2002 - 2003.

Actions:

- Prompting the use of both sides of paper when printing or photocopying.
- Training of the personnel on the proper use of printers and photocopiers.
- Reproduction of student notes and handouts after the determination of the exact number needed.
- Expanding the use of electronic mail.
- Re-use of old scratch paper for unofficial purposes.
- Reproduction of pamphlets after the determination of the exact number needed.
- Installation of personal codes on the photocopiers.
- Maintenance of a record for the amount of paper delivered for use either by name of recipient or by department.

Relevant Environmental Procedures:

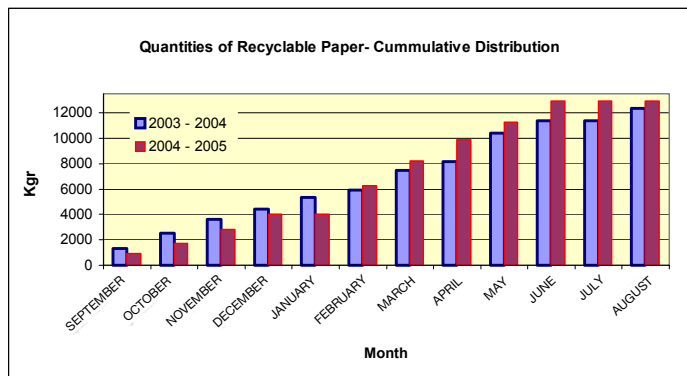
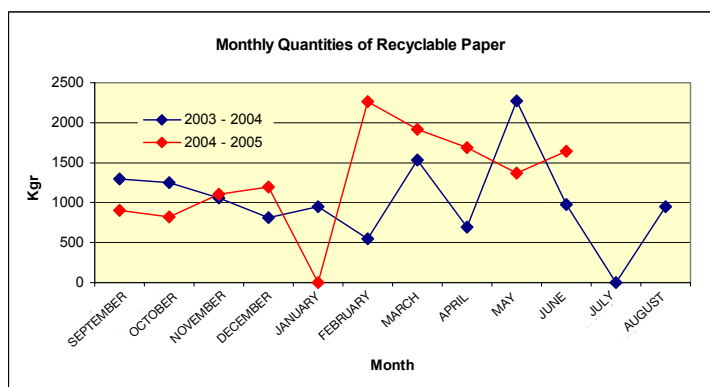
EP 140	Training of Personnel
EP 150	Training of Students
EP 410	Monitoring of the Environmental Indicators



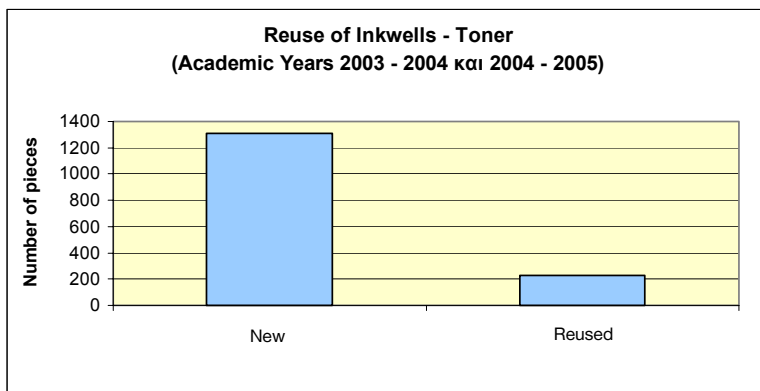


6.4 Recycling of Materials

Since June 2003, the University runs a paper-recycling program. The paper which is to be recycled is transiently stored by the members of the personnel in small blue baskets they have been provided with. The next step is the emptying of the small blue baskets into larger recycling buckets, strategically placed in central spots and in the corridors of the University. These larger buckets are collected by the cleaning service, which then proceeds to a sample weighing of their contents for the purpose of estimating the quantity of the paper that is to be recycled. After the weighing, the paper is collected by the Recycling Service of the Municipality of Thessaloniki and it is transferred to the recycling units.



The Program for the reloading of the cartridges and toners of printers commenced in the academic year 2003 - 2004 as a pilot project and it was continued through the academic year of 2004 - 2005 with positive results. The quantities of cartridges and toners purchased and reloaded are shown in the following Diagram.



In the present phase, the University is running pilot Programs for the Recycling of Aluminum and Batteries, with the use of special buckets placed in strategically chosen areas of the Institution, while the Program for the Recycling of Electric and Electronic Equipment is expected to commence within the academic year 2005 – 2006.

Relevant Environmental Procedures:

- EP 140 Training of Personnel
- EP 150 Training of Students
- EP 260 Material and Equipment Supplies
- EP 320 Recycling of Paper
- EP 330 Recycling of Aluminum
- EP 350 Recycling of Batteries
- EP 360 Recycling of Electric – Electronic Equipment
- EP 410 Monitoring of the Environmental Indicators





6.5 Environmental Sensitization – Training of the Personnel

Necessary preconditions for the successful operation of the University's Environmental Management and Audit Scheme according to EMAS are, on the one hand, the environmental sensitization of the personnel, and, on the other, the training and active participation of the personnel in the implementation and operation of this Scheme.

For the above objective to be reached, the University has proceeded –through the establishment and operation of the EMAS Office– to the organization of the following actions and events in order to provide its personnel with environmental information and training:

- Two open discussions about the University's "Environmental Management and Audit Program"
- Constitution of a Supportive Voluntary Environmental Team for the Environmental Management Program
- Organization of four seminars on "Simple Environmentally friendly practices and energy saving techniques in the work space" with the cooperation of the Technical Service of the University.
- Organization of two educational cycles for the purpose of training the Users of the EMAS Informational System, in collaboration with the Consultant for the Development of the Environmental Management Scheme.
- Organization and realization of a three-day educational seminar addressed to the Internal Environmental Auditors and carried out by an Accredited Certification Agency
- An unconventional event for the celebration of the Universal Day for the Environment in 2003: Organization of an environmental fiesta entitled "The environment presupposes the personal contribution of Us all" (05/06/2003)
- An unconventional event for the celebration of the Universal Day for the Environment in 2004: Pilot aesthetic and environmental interventions for the upgrading of the semi-open spaces (atrium) of the University, aiming at the creation of small gardens with outdoor decorative plants (04/06/2004)
- Seminar under the title "Environmentally Friendly Behavior" (11/12/03)
- Organization of an educational excursion addressing the issue of the "Protection of Vulnerable Ecosystems and Biotopes (10/10/2004)
- Celebration of the Universal Day for the Environment 2005: Voluntary cleaning of a sea beach in the area of Posidi on the peninsula of Chalkidiki. The event took place in the context of the pan-Mediterranean initiative "Clean the Mediterranean" for the voluntary cleanings of beaches, seabeds and other natural scenes" (29/5/05)
- Distribution of printed and electronic educational material on the issues of: the development and implementation of Eco-Management and Audit Schemes, Recycling, Health and Safety at work, Energy Saving, Informational System according to EMAS, etc.



Relevant Environmental Procedures:



EP 140	Training of Personnel
EP 410	Monitoring of the Environmental Indicators

6.6 Environmental Sensitization – Training of Students

The correct implementation of the Environmental Management System presupposes also the active participation of the University's students. This is achieved by means of both the students' attendance of courses with an environmental content as well as their participation in educational activities and sensitization events related to the environment. Today, the University of Macedonia offers courses of an environmental content at both the undergraduate and the postgraduate level. In the course of the academic year 2003 – 2004, a total of **84** students attended these courses, while a number of approximately **200** students took part in Environmental Education seminars. The list that follows presents the variety of events that have been successfully materialized up to now for the purpose of raising the environmental awareness of the University's students:

- Organization of five cycles of seminars for the Environmental education of the University's students under the title "Environment – Economic and Administrative Sciences"
- Organization of an environmental event called "The environment presupposes the personal contribution of us all", in the context of the celebration of the Universal day for the Environment (05/06/2003)
- Creation of a handmade banner promoting the University's paper Recycling Program (November 2003)
- Organization of an Environmental Sensitization event addressed to the Students of the University (17/12/2003)
- Celebration event for the Universal Day of the Environment 2004: Pilot interventions for the aesthetic and environmental upgrading of the semi-open spaces (atriums) of the university (04/06/2004)
- Organization of a "Commemorative Event for the Nuclear Accident of Chernobyl" (26/04/2004)
- Organization of an educational excursion for the members of the Voluntary Environmental team of Students addressing the issue of the "Protection of Vulnerable Ecosystems and Biotopes (10/10/2004)
- Celebration of the Universal Day for the Environment 2005: Voluntary cleaning of a sea beach in the area of Posidi on the peninsula of Chalkidiki. The event took place in the context of the pan-Mediterranean initiative "Clean the Mediterranean" for the voluntary cleanings of beaches, seabeds and other natural scenes" (29/5/05)

Relevant Environmental Procedures:



EP 150	Education/Training of Students
EP 410	Monitoring of Environmental Indicators



6.7 Improvement of Hygiene and Safety Conditions

In the recent years there appears to be an increase in the number of persons working in the University of Macedonia, a result of which is the often inadequate coverage of the new needs by the already existing facilities of the institution. In addition, there have often been observed some deficiencies with regards to the design, the equipment, the awareness and the training of the personnel in relation to the issues of health and safety. In the context of the implementation of the Environmental Management System, special emphasis has been given to the improvement of the Institution's health and safety conditions for the sake of both its students and employees. The following list presents the relevant actions that have been taken:

- Distribution and completion by the personnel of a special questionnaire for the assessment of the existing occupational hazard
- Recording of the present situation by means of 'on the spot' inspections and interviews
- Statistical elaboration and publicization of the results
- Preparation of a Study for the Assessment of the existing Occupational Hazards
- Drawing up of a list of suggested corrective interventions for the improvement of the Hygiene – Safety conditions
- Examination of the living and studying conditions of persons with special disabilities/needs
- Materialization of the suggested measures
- Conducting of two series of measuring physical-material factors (noise, temperature, relative humidity, air-suspended particles, and lighting) by the Hellenic Institute of Health and Safety at Work (H.I.H.S.W.). These measurements have ascertained the Institution's conformity to the value-limits of the said factors as these are set by the legislation in force
- Distribution of educational material on Hygiene – safety issues
- Materialization of a System for the Safeguarding of Hygiene (HACCP) in the food preparing and serving spaces of the University, while there also took place a number of relevant informative and instructional activities as follows:
 - Two seminar cycles for the provision of First Aid Services, organized and carried out by the Hellenic Red Cross
 - Two seminars organized and carried out by the Hellenic Institute of Health and Safety at Work (Fire-Protection, Hygiene and Safety Legislation – Health and Safety Committees – Optical Image Monitors, Myo-skeletal Diseases, Safety Signaling)
- Theoretical and practical training of the members of the Fire-safety Team on issues regarding the practical application of fire-extinguishing methods and instruments, by the Fire-fighting Service.



Relevant Environmental Procedures:

EP 140	Training of Personnel
EP 150	Training of Students
EP 410	Monitoring of the Environmental Indicators
EP 510	Health and Safety
EP 520	Handling Emergency Cases



6.8 Raising Environmental Awareness – Sensitization of Citizens and Students

As of today there are only few people knowing the major environmental consequences of their economic activities, as well as of their everyday actions and practices. Even fewer are those who have ever heard of the concepts of environmental management, ecological stamping of products, green markets, and environmental policy. For this reason, the EMAS Office of the University of Macedonia has already organized the following day-conferences on Environmental management issues:

- "Sustainable development and Environmental Management. Applications in Educational Institutions" (4/4/2003),
- "Environmental Management Actions on local / regional level" (06/12/2004), as well as the following environmental sensitization activities:
- Environmental event "The environment presupposes the personal contribution of Us all" (05/06/2003),
- Commemorative Event for the Nuclear Accident of Chernobyl" (26/04/2004)
- Pilot aesthetic and environmental interventions for the upgrading of the semi-open spaces (atriums) of the University, in the context of the celebration of the Universal Day for the Environment (04/06/2004).

For the publicization of the Program and the further environmental sensitization of citizens, the University has carried out the following:

- Presentation of the EMAS Program in the HELECO 2005 exhibition on the environment,
- Creation of an Information and Website Office where one can be provided with all kinds of information regarding the course of the implementation of the University's Environmental Management System as well as with a variety of materials of environmental content,
- Participation of the University in day conferences and congresses for the purpose of publicising its Implementation of the Eco-Management and Audit Scheme, on both national and international level,
- Publication in the Press of a multitude of articles and information bulletins with regards to the course of the University's Implementation of the EMAS Program.

Activities:

- Environmental sensitization events
- Ecological education/training of students in Primary and Secondary level schools



- Organization of day conferences for the purpose of raising the environmental awareness of the public
- Participation in day conferences and congresses of environmental – educational content
- Promotion of the University’s ecological activities through the Mass Media
- Creation of a database of environmental education programs of primary and secondary schools, lyceums, environmental organizations and public agencies
- Visiting of Environmental Education Centers of the Prefecture of Thessaloniki by members of the Environmental Team of Students and attendance of day programs on the environment.

Relevant Environmental Procedures:



EP 150	Training of Students
EP 410	Monitoring of the Environmental Indicators

GLOSSARY OF ABBREVIATIONS

EMAS:	Eco – Management and Audit Scheme
E.M.S.:	Environmental Management System
EP:	Environmental Procedure
T.R.P.:	Teaching and Research Personnel
S.E.T.P.:	Special Educational & Teaching Personnel
S.T.E.P.:	Special Technical & Educational Personnel
S.T.P.:	Special Teaching Personnel
S.TECH.P.:	Special Technical Personnel
H.I.H.S.W.:	Hellenic Institute of Health and Safety at Work



VERIFICATION OF THE ENVIRONMENTAL STATEMENT

Following the on the spot visitation of the operation grounds of the University of Macedonia and after the audit of the respective data and information:

I verify that:

The Environmental Management System, the Environmental Policy, the Environmental Program and the Environmental Statement of the University of Macedonia, Economic and Social Sciences, situated in Thessaloniki, 156 Egnatia Str, 540 66, fulfil the requirements of the EC no. 761/2001 of the European Parliament and of the Council of 19th March 2001 for the wilful participation of organizations in the Community's Eco-Management and Audit Scheme (EMAS).

The information provided in the present Environmental Statement is clear and accurate, and the Environmental Issues of the Institution's activities have been identified, and their Environmental Consequences have been assessed.

Revised Environmental Statements will be annually verified and publicized.

The next Environmental Statement will be drafted, verified and submitted for registration to the responsible Registration Office of the Ministry of the Environment, Physical Planning & Public Works in July 2006.

Athens: 04.06.2005

Dr. Panagiotis Ahladas, Chemical Engineer
TÜV HELLAS S.A.
El. Venizelou 24
15341 Ag. Paraskevi



REGISTRATION RELATED INFORMATION

Name / trade name of Organization	University of Macedonia, Economic and Social Sciences
Address of Organization	156 Egnatia Str, Thessaloniki, Εγνατία 156, 540 66
Telephone / FAX	2310 891364 / 891680
e-mail	emas@uom.gr
Website address	www.uom.gr/emas
Contact Persons	Dr. Eftichios Sartzetakis or Dr. Sophia Gregou
Activity Code NACE	80.30
Number of Employees	543
Name of Verifier	Dr. Panagiotis Ahladas – TÜV Hellas S.A.
Accreditation number	183
Scope of Accreditation	13, 14.1, 14.2, 14.3, 15.3, 20, 23.1, 23.2, 24.2, 24.4, 24.5, 25.2, 26 (εκτός 26.5 & 26.6), 26.5 26.6, 27.2, 27.5, 28.1, 28.6, 29, 31.4, 36.1, 45, 55
Date of the next verification of the Environmental Statement	July 2006
Title / Name of the executive office of the authority the organization is subject to, and specifics of the person responsible for the communications of this office:	



DATE OF NEXT ENVIRONMENTAL STATEMENT

The next Environmental Statement, as already mentioned in section 8 of the present statement, will be drafted, verified and publicized in July 2006, while the overall Environmental Statement will be drafted, verified and publicized in July 2008. In the latter, there will be presented, among other things, the results of the environmental programs of the three-year period July 2005 – July 2008.

The annual issues of the environmental Statement will contain:

- The environmental performance
- Any significant change in the activities, services and products of the University of Macedonia.

Internal audits will be carried out on an annual basis, the findings of which will in turn constitute issues for both the review of the Environmental management System by the Environmental Council of the University of Macedonia as well as the annual scrutiny of the Environmental Management System by the environmental Verifier of TÜV HELLAS.

Athens, 04.06.2005

Assistant Professor Dr. Eftichios Sartzetakis

Representative of the Environmental Council
Eco-Management and Audit System's Manager





Communication Information:

EMAS Office of the University of Macedonia – Dr. Sophia Gregou
University of Macedonia, 156 Egnatia Str., Thessaloniki 54006, Greece
Tel.: +30-2310-891364, email: emas@uom.gr
Website: <http://www.greenuniversity.gr/>

Eco-Management and Audit System's Manager:
Assistant Professor Dr. Eftichios Sartzetakis
Tel.: +30 -2310-891680, email: esartz@uom.gr
Personal Website: <http://macedonia.uom.gr/~esartz>



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