

**Restructuring, Management Systems & Quality Assurance, and
Accreditation**

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7-1 Restructuring & Management Systems

Introduction

HEEPF projects were directed in three basic windows: academic enhancement, projects related to the market and industry, and management enhancement projects. This Chapter sheds light on examples of the projects financed by HEEPf in the field of management enhancement. Although the number of projects in this field is restricted, yet these projects had a great effect on the development of human resources and laid down a futuristic strategy for the university.

Management enhancement and restructuring projects were implemented in Alex., Fayoum, and Helwan Universities as well as the Ministry of Higher Education during the first two cycles of HEEPf projects. The Cultural Affairs and Missions Sector in the Ministry of Higher Education was also developed and updated during the fourth cycle.

These projects focused on providing electronic administrative systems as well as electronic systems for hospitals and medical education Management , and preparing workable strategies of administration. In addition, a number of sectors have been administratively restructured as follows:

First: providing electronic management systems, establishing electronic infrastructure to facilitate administrative work in the faculty as well as software programs to organize work, and training employees on using this system as is the case in Project (A-043-H0) "Establishing a System for Educational Management " in the Faculty of Engineering, Alex. Univ., Project (B-113-J1) "Developing an Integral Administrative System" in Fayoum Univ., and Project (A-024-H0) "Establishing Management Infrastructure for E-learning for the Diploma Degree" in the Higher Institute of Public Health in Alex.

Second: providing hospitals management and medical education with electronic systems as in Project (A-023-S0) "Establishing a Network for Hospitals and Telecommunication for Medical Services & Medical Education" in Tanta Univ. and Project (C-040-M0) "Establishing an Integral Automated Information System for the Dentistry Hospital" in Minia Univ.

Third: Preparing strategies as in Project (B-135-H0) "Preparing a Framework for an Advanced and Distinguished Administrative Strategy for Alex. Univ.," Project (A-083-I0) "Laying down a New Strategy for Equipment Maintenance" in Assiut Univ., and Project (B-026-K0) " Human Resource Planning & Management" in Helwan Univ.

Fourth: Administrative restructuring as in Project (D-194-O0) "Developing and Updating the Cultural Affairs and Missions Sectors in the Ministry of Higher Education" to be generalized to the remaining administrations. Besides HEEPf, a number of parties participated in financing this project such as the project of Developing and Updating Cultural Affairs and Missions Sector, the Ministry of Higher Education, the State Ministry of Administrative Development, the Ministry of Communications and Information Technology, and the Strategic Sciences Institute affiliated to the Republican Presidency.

Currently, there is an SPU (Strategic Planning Unit) that lays down a strategy for each university and uses Alex. Univ. as a model example.

It is worth noting that some of the projects financed by HEEPf in the various cycles were classified under the field of administrative development based on the research proposal. However, the part allocated to administrative development, laying down strategies, and

restructuring was so limited. Therefore, they are not mentioned in this chapter which particularly focuses on the projects which have administrative development and restructuring as one of their principal activities.

7-1-1 Establishing Electronic Administrative Systems

Project (A-043-H0) Establishing a System for Educational Management, Faculty of Engineering, Alex. Univ.
Budget: \$ 168.000 – Period: 24 months

Goals: The project aims at automating administrative work in the Faculty in accordance with the requirements of the electronic government, the development of the decision making process, and facilitating the resource management process in light of the increasing numbers of students.

Outcomes: Among the most important outcomes if the project are the establishment of an electronic infrastructure and communication networks to connect the departments of the Faculty of Engineering, automating the administrative system of the Faculty through using adequate programs, and training employees and staff members on using such system.

Output: 20000 undergraduate students, 765 staff members, 320 technicians/managers, 14 administrative members.

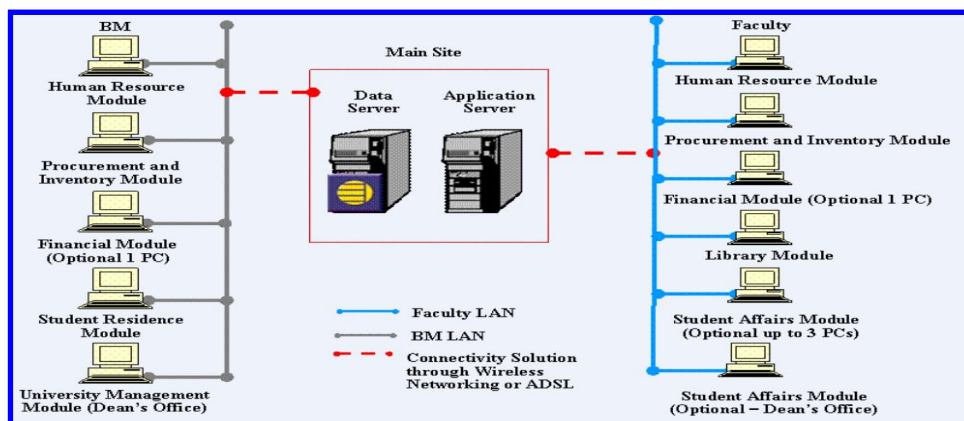


Fig. (7-1): A diagram explaining the electronic administration system in Fayoum Univ.

Project (B-113-J1) Developing an Integral Administrative System, Fayoum Univ.
Budget: \$ 175.000 – Period: 30 months

Goals: In the field of electronic management, Project (B-113-J1) implemented by Fayoum Univ. aims at developing an integral administrative system in an advanced, integral and efficient framework that includes most central and subsidiary administrative activities in the University and its faculties. This system achieves part of the Egyptian electronic government system. The implementation of this project guarantees the existence of a uniquely trusted and available source of the university administrative information which provides students and staff members with an adequate atmosphere of learning, teaching, and scientific research. In addition, it supports the process of internal and external planning in the University using the available and documented reports and information. The project is not restricted to the

provision and activation of an electronic management system. Rather, it extends to raising the academic community awareness of modern administrative systems, and training a large number of staff members, their assistants and workers in the university on using the computer and advanced administrative programs. This system was introduced to ten faculties.

Outcomes: An information unit and an internal network for each faculty and for the university management were established. Initial copies of programs and four out of six modules were prepared to establish the whole database and offer students and staff members services through the project site

Output: 20000 students

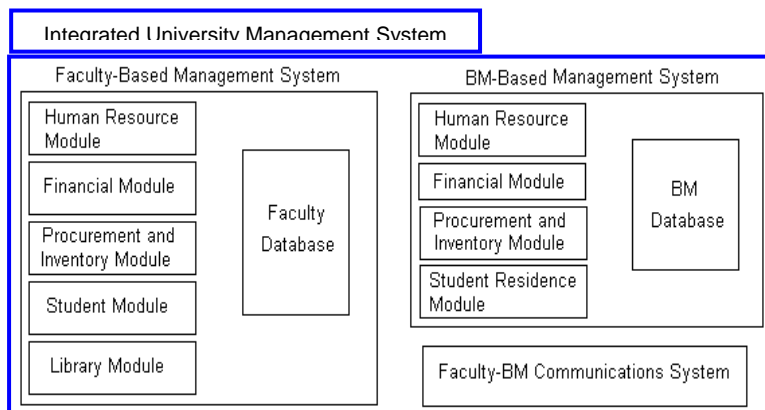
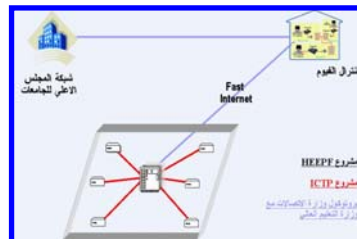


Fig. (7-2): A diagram of the electronic Management system in Fayoum Univ.



Project (A-024-H0) Establishing management Infrastructure for E-learning for the Diploma Degree, Higher Institute of Public Health, Alex.

Budget: \$ 77.000 – Period: 24 months

Goals: The project aims at establishing electronic infrastructure in the departments of Students Affairs, Financial Affairs, Administrative Affairs in the scientific departments of the Institute. In addition, it aims at establishing an internal network for the departments of the Institute to facilitate the necessary communications to create an e-learning environment. Moreover, it aims at providing administrative departments with the programs that allow students to register and choose their courses electronically, as well as training employees to deal with this system.

Outcomes: Beneficiaries: Equipment and software programs were purchased and at least 20 workers in administrative departments and not less than 80 staff members were trained on using this system.

7-1-2 Establishing Electronic Systems for Hospital Management and Medical Education

Project (A-023-S0) Establishing a Network for Hospitals and Telecommunication for Medical Services & Medical Education, Tanta Univ.

Budget: \$ 187.500 – Period: 24 months

Hospitals, the project of Tanta University includes the establishment of an internal network for the various medical departments to save the patients' data and know the history of development of the critically sick cases. The project aims as well at establishing a videoconference center to directly transmit scientific events and apply the online teaching and examination system.

Outcomes: An internal network for the various medical departments was established and a videoconference center was equipped and used in teaching.

Output: Workers in the various medical departments in Tanta University

Project (C-040-M0) Establishing an Integral Automated Information System for the Dentistry Hospital, Minia Univ.

Budget: \$ 127.500 – Period: 24 months

Goals: The project aims at using information technology in teaching, treating patients, managing the hospital through multi-moduls software programs in different university hospital management fields, following patients up, as well as developing the higher studies and upgrading workers in this field.

Outcomes: All necessary modules for the hospital management and patients' databases were purchased and activated. Moreover, workers, physicians, and nurses were trained on using and applying this system.

Output: workers, physicians, and nurses in the Dentistry Hospital, Minia Univ.

7-1-3 Laying down Strategies and Managing Resources

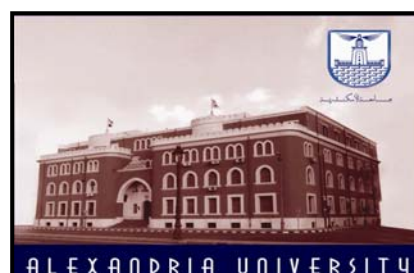
Project (B-135-H0) Preparing a Framework for an Advanced and Distinguished Administrative Strategy, Alex. Univ.

Budget: \$ 147.200 – Period: 24 months

Goals: The project aims at developing a strategic administrative system to achieve academic excellence, satisfy the community needs, and provide the mechanisms necessary for the sustainability of this system in Alex. Univ. Thus, its experimental application in Alex. Univ. is the beginning of formulating a new system the fundamentals of which can be later generalized to all governmental universities in Egypt.

Outcomes: This system was applied in the Faculties of Engineering, Agriculture, and Commerce in Alex. Univ.

Fig. (7-3): Alex. Univ. Strategic Project applied in the Faculties of Engineering, Agriculture, and Commerce



**Project (B-026-K0) Human Resource Planning & Management, Helwan Univ.
Budget: \$ 40.000 – Period: 18 months**

Goals: The human resource administration is considered one of the basic fields of development because it is the backbone of any successful program. The main goal of the project is to develop and update the public administration of personnel and staff members affairs and transform it into a strategic, modern administration. Helwan University took the initiative through Project (B-026-K0) which aims at planning a workforce plan for the University, establishing an information system for the human resource administration, transforming the public administration of personnel affairs into a human resource administration, and developing and updating the capabilities of the employees and managers of this administration.

Outcomes: Workers' skills were developed, and a database was established for academic and administrative personnel. In addition, different frameworks were established for restructuring the public administration of personnel affairs and transforming it into a human resource administration. Moreover, reports on the University needs of staff members' assistants during the coming five years, the results of the University academic structures, the present stance of staff members and nonacademic workforce, and future needs were prepared. Indicators of the success of the experiment appeared when the Minister of Administrative Development charged the University administration with offering the necessary support to this pioneering experiment.



Fig. (7-4): Human resource Management Center, Helwan Univ.

**Project (A-083-I0) Training Technicians on Equipment Maintenance, Assiut Univ.
Budget: \$ 81.000 – Period: 24 months**

Goals: The project aims at training technicians on equipment maintenance and establishing a maintenance center that has its own administrative structure in Assiut Univ.

Outcomes: an administrative structure was established for the scientific equipment maintenance center where the equipment and tools of Assiut Univ. were maintained. In addition, a large number of students and technicians were trained by specialists from the staff members with an aim to upgrade their skills and give them enough experience. Moreover, an electronic database for all scientific equipment in the University and the technicians working in different labs was established. Thus, it was easy to search for the technician or equipment through the faculty, the department, or the lab and find equipment in any of the University units.

Output: 526 students in scientific departments in the University



Fig. (7-5): Scientific equipment disassembling center, Assiut Univ.

7-1-4 Administrative Restructuring

Project (D-194-00) Developing and Updating Cultural Affairs and Missions Sectors in the Ministry of Higher Education
Budget: \$ 15.000 – Period: 24 months

Goals: In the field of training, restructuring, and managing governmental sectors, the development program of the Cultural Affairs and Missions Sector in the Ministry of Higher Education (Project D-194-00) aims at simplifying the traditional procedures and turning them into an electronic version, developing administrative and financial affairs systems in accordance with the international management systems, improving the work environment, and establishing an infrastructure to be part of the electronic government system. The program adopts mechanisms that guarantee offering services that reach the Internet. and level of performance, and is keen on continuing cooperation with the all other countries through a modern electronic communication network.

Outcomes: To achieve these goals, international the development of human resources, restructuring, and functional organization were set. Through the implementation of these programs, the different training needs of workers in the sector were identified, and financial resources were sought. A huge budget from the Ministry of Administrative Development was allocated to the project and a number of training opportunities in the fields of basic concepts of quality, secretariat, personal skills, reporting, and computer literacy were given. These programs led to the introduction of new administrations such as the education marketing administration and the separation of the Public Administration for Cultural Representation from the Central Administration of Missions as a preparation of the establishment of an independent central administration. These achievements led to maximizing the usage of available resources and improving the performance level as felt by foreign agencies, envoys, and immigrants who deal with the sector.



Fig. (7-6): Training courses for the development of secondary school teachers capabilities, the Ministry of Higher Education

* Summary & Recommendations

The idea of management development and restructuring in HEEPF projects system has become a necessity and a basic element of the development of the education process in Egypt. It has led to a number of effective projects that resulted in their turn in excellent outcomes which represent a good nucleus of development and an example to be followed in the next phase projects.

Most management development projects in the first phase focused on the establishment of electronic infrastructure to facilitate administrative work in the faculties and software programs to organize work, as well as the training of staff members and employees on using these software programs which will certainly lead to upgrading the management competency

in education institutions. Therefore, such projects have to be maintained in the following development phases.

7-2 Quality Assurance

*** Introduction**

Increasing the quality level in the input, processes, and output of the education process is considered one of the most important fundamentals of the development of the higher education system which reaches the international level when it achieves the well-known international standards. Therefore, projects related to quality were included within the framework of HEEPF financed projects. The latest developments in academic fields made education quality and criteria a challenge that faces all countries in the present specially the developing countries to produce graduates on the level of international standards to compete well regionally and internationally.

It is worth noting that HEEPF projects outperformed other enhancement projects in terms of implementation specially in the field of quality assurance. The first phase of the Quality Assurance and Accreditation Project (QAAP) began in 01/10/2004, while HEEPF announced two cycles, projects were chosen (some focused on quality assurance) and began to be implemented in 01/04/2004 and 01/09/2004 in the first and second phase, respectively.

HEEPF management was keen on coordinating with the previously financing projects in the field of quality assurance like SCM-TEMPUS financed by the EU to train staff members on quality systems as is the case in Helwan, Menoufyia, and Tanta Universities.

Besides, there was a great cooperation between HEEPF financed projects (that focus on establishing quality centers in universities or quality assurance units in faculties) with the Quality Assurance and Accreditation Project (QAAP) in using the examples and guidelines prepared by the National Committee for Quality and Accreditation. These projects included Project (A-058-P1) "Evaluating Education Outcomes in the Children Education Department" in the Faculty of Education, Sohag Univ., Project (A-059-P1) "Developing and Evaluating the Mathematic Teachers Program" in Sohag Univ., Project (D-035-L0) "Developing and Updating The Curricula and Courses of the Geographic Sector to Reach the World Level" in Mansoura Univ., and Project (C-023-L0) "Enhancing the Teaching Clinical Skills of Staff members and their Assistants" in the Faculty of Nursing, Mansoura Univ. to contribute in qualifying these faculties for accreditation.

In addition, some of HEEPF financed projects in the field of quality assurance and accreditation differ in their activities from those projects financed by the QAAP. Examples of the former are Project (A-057-N0) "Quality Management Systems for Fighting Infection in University Hospitals" in Menoufyia Univ., Project (A-031-T0) " Establishing a certified quality assurance management system for medical education in Zagazig Univ. according to the ISO specifications, Project (C-067-I0) "Developing Analytical Chemistry Courses, establishing a new Analytical Chemistry lab in Assiut Univ. that satisfies the requirements of international accreditation for analytical labs, and introducing the concept of quality to Analytical Chemistry labs in the University, and Project (C-019-M0) "Updating the Higher Studies Program and Introducing New Specialized and Interdisciplinary Diplomas" in the Faculties of Engineering in Tanta and Minia Universities.

Furthermore, projects for evaluating the present situation and making amendments in the curricula and programs and describing them in the framework of quality were financed by HEEPF. For example, Project (B-131-K0) "Establishing Quality Assurance Mechanisms" in Helwan Univ. contributed in the establishment of a quality center in the University as well as internal quality units in five faculties: Social Service, Artistic Education, Information and Technology, Commerce, and Engineering in Matereya.

Project (B-014-S0) "Establishing a Quality Assurance Management Center" in Tanta Univ. also provided an internal system for quality assurance in the Faculty of Nursing in Tanta, and the Faculty of Veterinary Medicine in Kafr El-Sheikh. Many quality projects were implemented during the different phases of HEEPF. Therefore, it was necessary to include performance appraisal and quality assurance of courses as a principal factor in the enhancement process. To achieve this enhancement, a group of experts were used to hold a number of seminars and lectures to introduce the concept of quality assurance and accreditation whether on the level of projects or the level of the monitoring teams. A training course was held in a Common Assessment Framework (CAF) for the monitoring teams of HEEPF projects. Thus, HEEPF has well-trained consultants which qualify HEEPF management for institutional accreditation.

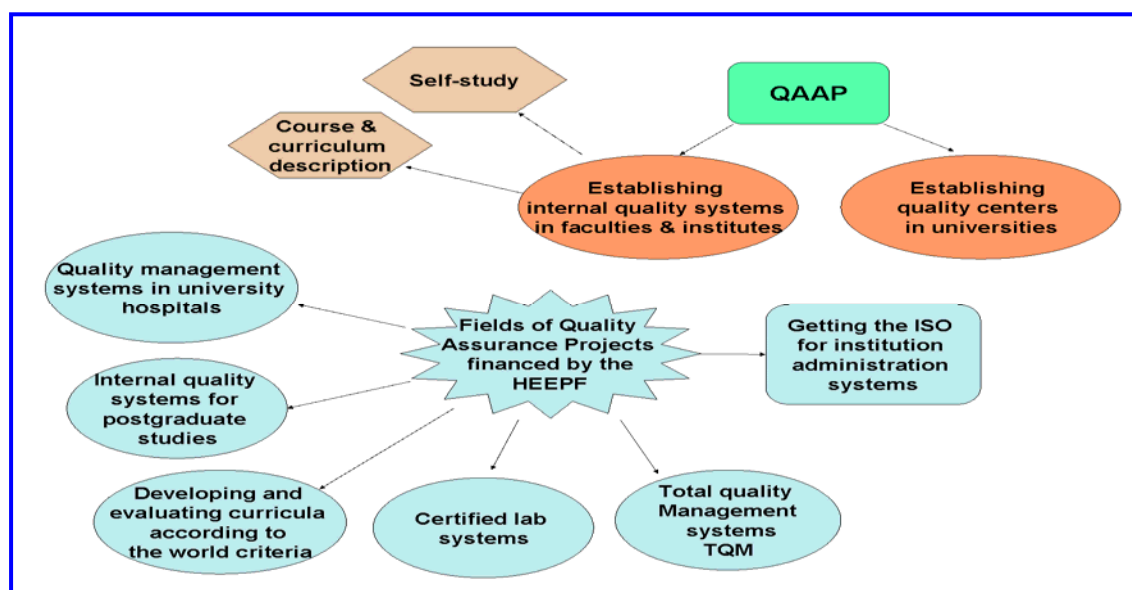


Fig. (7-7): An explanation of HEEPF projects in the field of quality assurance and their cooperation with the QAAP in this field

The following is a summary of the projects which can be classified in the following categories:

7-2-1 Getting Quality Assurance Certificates for the Management Systems of Institutions and University Hospitals

Project (A-031-T0) Establishing a certified quality assurance management system for medical education in Zagazig Univ.
Budget: \$ 176.200 – Period: 36 months

Goals: Evaluating the current medical education management system, analyzing the gap, and establishing an accredited quality management system.

Outcomes: One of the factors of any successful program is its application of a quality management system based on the ISO specification criteria. The experimental application of this system in Zagazig Univ. succeeded. The project evaluated medical education, analyzed the gap between the current system of medical education and the expected international system, showed the points of strength and weakness in the current system, and laid down executive plans to maintain the points of strength, improve the points of weakness, review all resources in the Faculty of Medicine for their optimal use, and made the necessary changes to continually improve medical education. The international Federal criteria and ISO 9001/2000 specifications of medical education and American standards were taken into consideration when establishing the quality system taking into account the current situation of the Faculty of Medicine, Zagazig Univ. This experiment succeeded as a result of the collaboration of different categories including the higher administration of the University and the Faculty, members of the Faculty Board, staff members and their assistants, managers, representatives of the Ministry of Health and Physicians' Syndicate under the supervision of a local consultant organization in the field of quality application. This led to a certificate admitting the medical education quality management system from one of the internationally accredited German organizations in this field (TUV SUD Management Service GmbH). It is also expected that Doldsdorf Univ. would make an executive plan for improving professional medical education in Zagazig Univ. in the near future.



Fig. (7-8.a) The ISO Certificate granted to the project



Fig. (7-8.b) The ISO Certificate Delivery conference

7-2-2 Quality Management Systems for Fighting Infection in University Hospitals

Project (A-057-N0) Quality Management Systems for Fighting Infection in University Hospitals, Munufeya Univ.

Budget: \$ 37.000 – Period: 12 months

Goals: Upgrading the skills of workers in education institutions is one of the basic corners of the enhancement of the education process. This project aims at upgrading the skills of workers in university hospitals in the field of infection fighting through establishing a quality improvement system that fulfills the essential needs in the field of nursing.

Outcomes: Among the most important outcomes of the project are the application of a quality management system in university hospitals to fight infection in these hospitals, introducing infection fighting courses in all specializations, establishing a program to enter the data related to infection fighting, producing a guidebook for infection fighting quality, establishing an infection fighting lab, upgrading the skills of workers in university hospitals and students in the final stages, as well as developing the skills of staff members and managers.

7-2-3 Improving the Quality of Education

Project (B-020-G0) Improving the Quality of Academic Nursing Education, Ain Shams Univ.
Budget: \$ 79.500 – Period: 24 months

Goals: The project aims at establishing a quality improvement program, developing courses, upgrading the skills of staff members, and establishing a computer-based student evaluation system.

Outcomes: The project set academic criteria for Nursing in English and Arabic, gained a deposit no. in the Egyptian Public Library and the Cabinet Decision Support Center. Nursing courses for the undergraduate and postgraduate stages were also described; courses committee established; staff members trained; and postgraduate courses developed.

Project (C-012-N0) Developing Nursing Curricula by Integrating Critical Thinking Skills as a Step Towards Accreditation and Quality, Munufeya Univ.
Budget: \$ 38.000 – Period: 18 months

Goals: Developing courses and improving their quality to achieve the goals and desired outcome of education programs are considered important factors on which the quality of education is based. This project aims at the development of Nursing courses (20 in Menoufyia Univ.) and (6 in Assiut Univ.) as well as their application and evaluation. It also aimed at making a teacher guide, an advanced student book, and course description. In addition, it aimed at integrating critical thinking skills, training staff members and their assistants on electronic research, developing programs by integrating critical thinking skills, teaching and evaluating them, introducing student evaluation of the courses, and establishing a unit for developing curricula in the two faculties.



Fig. (7-9): One of the workshops that introduce the fundamentals of quality

Outcomes: 28 staff members were trained on using critical thinking skills in their Nursing courses in accordance with international criteria in this regard. 7 Nursing courses were rebuilt and designed based on the critical thinking strategy. Moreover, these courses in their new shape were applied as a model example for other courses. The first class of those who studied the new courses in the Faculty of Nursing, Menoufyia Univ. graduated.

Project (C-023-L0) Enhancing the Teaching Clinical Skills of Staff members and their Assistants in the Faculty of Nursing, Mansoura Univ.
Budget: \$ 58.000 – Period: 18 months

Goals: The project aims at upgrading the medical education skills of staff members, setting a practical training program for Bachelor students, developing labs and equipping them with the required models and equipment to develop training and reach the international level in accordance with the faculty accreditation requirements.

Outcomes: The project equipped skills labs with the necessary models and equipment, trained staff members and the administrative and executive team, prepared a guidebook for the clinical skills related to each department, prepared means of clinical skills evaluation, and equipped a computer lab with helping education media.

Project (D-035-L0) Developing and Updating The Curricula and Courses of the Geographic Sector to Reach the International Level, Mansoura Univ.

Budget: \$ 90.000 – Period: 18 months

Goals: The project aims at upgrading the skills of staff members, developing not less than 40% of the undergraduate stage courses in the Faculties of Arts and Education in Mansoura and Tanta Universities to upgrade students' practical skills to fulfill the needs of the work market. In addition, it aims at providing the Department of Geography with the equipment required for the improvement of the education process.

Outcomes: The project offered 50 students in the fourth year field training. It also trained 65 students in the Department on using the computer. Moreover, five Geography courses were developed and evaluated by a specialized committee, and nine courses were held for training staff members on using the computer.

Project (B-132-K0) Introducing the Credit Hour System and Electronic Admission System between Helwan and Munufeya Universities

Budget: \$ 42.500 – Period: 13 months

Goals: The project aims at introducing the credit hour system and training staff members on the skill of course design under this system and on the system of student evaluation.

Outcomes: Analyzing the skill gap in a sample of 700 graduates, describing the courses of all faculties, preparing a booklet that explains the credit hour system, transforming curricula of all faculties into the credit hour system and approving them by the University Board and Sectors Committees, and turning the higher studies into the credit hour system in three faculties in Menoufyia Univ. In addition, a subsidiary unit (affiliated to the PMU) was established as a technical support unit for the credit hour system in the University.

Project (C-036-K0) Improving the Quality of Education in the Field of Nutrition and Food Sciences

Budget: \$ 111.000 – Period: 24 months

Goals: The project aims at producing new curricula, changing the existing ones, upgrading the skills of staff members and labs competency, as well as improving the teaching methods and skills of staff members.

Outcomes: Four labs were equipped with modern teaching media, and new courses were developed for the undergraduate and postgraduate stages.

7-2-4 Establishing University Centers and Faculty Units for Quality Assurance

Project (B-131-K0) Establishing Quality Assurance Mechanisms, Helwan Univ.
Budget: \$ 95.100 – Period: 24 months

Goals: The project aims at raising the awareness of the importance of quality in Helwan Univ. and establishing an adequate infrastructure to guarantee upgrading the education process through upgrading the staff members.

Outcomes: Among the most important outcomes of the project are establishing a quality center and training a large number of staff members on course description and quality requirements.

Project (B-014-S0) Establishing a Quality Assurance Management Center, Tanta Univ.
Budget: \$ 95.000 – Period: 24 months

Goals: The project aims at the establishment of a training center for quality achievement. The center has already been established and equipped, trainees were trained, and an example of the implementation of self-study was done for the faculties.

Outcomes: Self-study has been completed; an internal quality system established in a number of faculties such as; the Faculty of Nursing in Tanta, the Faculty of Veterinary Medicine in Kafr El-Sheikh; and academic criteria identified.

7-2-5 Improving the Quality of Education in Post Graduate Studies

Project (A-050-H0) Introducing the Credit Hour System, Alex. Univ.
Budget: \$ 184.000 – Period: 24 months

Goals: The project aims at upgrading higher studies and coping with the latest education systems by the application of the credit hour system that is applied in the world universities.

Outcomes: Spreading the culture of these curricula among staff members and students. Faculties began to change their curricula after referring them to the University Board and Specialized Sector Committees in the Higher Council of Universities. The project provided the faculties and institutes of the University with computers for postgraduate studies departments. Currently, the credit hour system is being finalized to be used in all Egyptian universities and the curricula of 22 faculties are being completed. The ministerial decision of the application of the new curricula in a number of faculties of the University such as Nursing, Agriculture, and Engineering has been issued.



Fig.(7-10): Providing postgraduate studies departments in the faculties and institutes of Alex. Univ. with computers

Project (C-019-M0) Updating the Post Graduate Studies Program and Introducing New Specialized and Interdisciplinary Diplomas in the Faculty of Engineering, Tanta and Minia Universities

Budget: \$ 41.000 – Period: 12 months

Goals: The project aims at the preparation of academic criteria for the postgraduate curricula in the Faculties of Engineering in Tanta and Minia Universities, and training staff members on using modern technology in teaching these curricula.

Outcomes: 1100 courses were described in accordance with the quality system and the credit hour system, and 9 new diplomas were introduced in the field of Engineering.

7-2-6 Developing and Evaluating Programs to Fulfill International Standards

Project (A-058-P1) Evaluating Educational Outcomes in the Children Education Department, Faculty of Education, Suhag Univ.

Budget: \$ 36.900 – Period: 18 months

Goals: The project aims at upgrading the quality of the education process through training staff members in the Faculties of Education and evaluating the learning outcomes in the field of Children Education.

Outcomes: Among the most important outcomes of this project are the description of the Child Education Section Courses (Principles of Education, Origins of Education, Education and Social Problems, History of Education, History of Teaching), testing the professional, academic, and general education outcomes, making the project printings. The project also included an internal evaluation of quality management, input of student evaluation, teaching and learning methods, and evaluating curricula. 656 students, 89 staff members, and 34 assistants in addition to managers and technicians benefited from this project. In addition, four kindergarten schools and six child care centers benefited indirectly from the project. The project also contributed in the establishment of learning outcome evaluation unit in Sohag Univ. (Under construction).

Project (A-059-P1) Developing and Evaluating the Mathematic Teachers Program, Suhag Univ.

Budget: \$ 29.100 – Period: 12 months

Goals: The project aims at identifying the points of strength and weakness in mathematics teachers' education, developing an education curriculum that accords with the international standard criteria, applying this curriculum, and considering it a model example to be followed in other courses.

Outcomes: Among the most important outcomes of this project are the description of a large number of courses (62 courses) and benefiting a large number of staff members and students directly, as well as teachers in the Education Directory in Suhag. In addition, the Mathematics Teaching Methodology course for the third and fourth years was developed; the Mathematics Teaching Methodology and Mathematics Teachers' guidebook written; the media labs, Computer Teaching Methodology, classrooms, and the library evaluated; and the staff members' skills upgraded through holding workshops and informing them of course description.

7-2-7 Certified Labs Systems

Project no. (C-067-I0) Developing Analytical Chemistry Courses in the Faculties of Science in Upper Egypt
Budget: \$ 77.000 – Period: 18 months

Goals: The project aims at developing the undergraduate courses, establishing a new diploma in Analytical Chemistry, and developing labs.

Outcomes: A new Analytical Chemistry lab that fulfills the requirements of international accreditation was established. The concept of quality was introduced to the Analytical Chemistry labs in the University. The enhancement also included renovating student labs for the undergraduate stage and introducing statistical programs to deal with the results. A new Diploma in Environmental Analytical Chemistry was introduced. One of the results of this experiment is the preparation of highly qualified students in terms of theoretical study, competence, and skills that increase their professional job opportunities.



Figure (7-11): Analytical Chemistry lab applying for international accreditation, Faculty of Science, Assiut Univ.

* Summary and Recommendations

Improving the quality in different fields of the education system can lead to upgrading the quality of education whether directly or indirectly. Many of HEEPf financed projects – which had the precedence in this field – focused on the improvement of courses and student evaluation quality through good description and setting adequate academic criteria. Courses are considered one of the important cornerstones on which the quality of education is based. The projects also focused on upgrading the staff members' and workers' skills, establishing quality centers, training on university course description, applying the credit hour system, in addition to upgrading the administrative body and administrative affairs.

The quality of education has become one of the basic requirements for the achievement of regional and world competition. Therefore, it is necessary to care for this type of projects through specialized finance to confirm the concept of enhancement in the minds of staff members and workers to upgrade the education process in Egypt to become a source of competences on the level of neighboring countries and the whole world.

* A List of Basic Terminology

Academic Standards

They are standards determined by the institution and derived from foreign regional or world references. They include the minimum of knowledge and skills that graduates are supposed to gain and follow the declared message of the institution.

Quality Assurance

The system that makes sure that the academic standards, derived from the concerned party message, are defined and achieved in accordance with similar regional or international standards. It also makes sure that the quality level of learning opportunity, research, and societal participation are adequate and fulfill the expectations of different kinds of beneficiaries from these parties.

The Internal System of Quality Management

The system adopted by the institution for the improvement of the curricula level and other influential factors. This system is related to the results of the achievement of the specifications of quality assurance, identifying good practices, as well as realizing the points of weakness and the obstacles of the education process, monitoring performance, proposing development and improvement, regular reviewing and developing the establishment of effective policies, strategies, and priorities for continual improvement.

Accreditation

It is the higher education institutions gaining of a distinguished quality and unique identity. It is considered an approval that the steps taken to improve the quality of education are successful steps, and an admittance that the education institution or curriculum fulfills a certain level of quality standards and that it has efficient existing systems for quality assurance and continual improvement of its academic activities in accordance with the specified standards, criteria, and specifications.