

Arab Republic of Egypt
Suez Canal University
Graduate Studies & Research Affairs Sector

Where Integration Of Knowledge -& Lieas Statis

Research PLAN

2023 - 2013 SCU ا الخطة البحثية



The Research Plan of Suez Canal University 2013-2023





INDEX

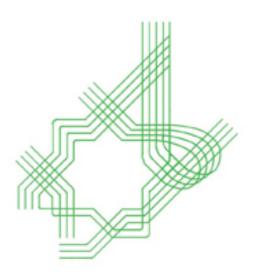
The Research Plan

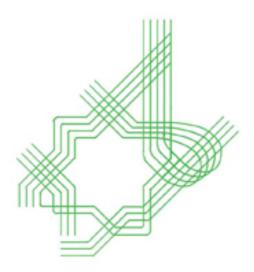
Introduction	6
Faculties of Ismailia Branch	7
Faculties of Al Arish Branch	7
Suez Canal Universitys' President Preface	9
Suez Canal Universitys' Vice President Preface	11
Vision of the Post-Graduate Studies and Researches Sector	12
Mission of the Post-Graduate Studies and Researches Sector	12
Aims	12
Strategic Objectives of the Research Plan	13
References of the Research Plan	13
The Main Pivots of the Research Plan	14
General Trends of the Research Plan	15
Core Values of the Scientific Researches	15
Procedures of Research Plan Preparation	16
Fund Raising and Research Support	16
Elements to Achieve the Research Plan	17
Mechanisms for the Commitment of Faculties with the Research Plan	25
Mechanisms to Assess the Annual Performance and to Measure Success Rate of the Faculties and Departments	26

The Executive Plan

The First Topic : Development of Human Resources in Suez Canal Region and Sinai (HR)	27						
Public Health Care, Development of Treatment Methods and Prevention of Diseases and Epidemics (HR1)	28						
Development of Behaviors, Attitudes and Human Skills (HR2)	39						
The Second Topic : Protection, Preservation and Development of Natural Resources in Suez Canal Region and Sinai (NR)	67						
Protecting Instinct Life and Biodiversity (NR1)	68						
Epidemics, Environmental Pollution and Climate Changes (NR2)	71						
Rational Utilization of Natural Resources (NR3)	79						
Drug Manufacturing from Natural Resources (NR4)	85						
Preservation and Development of Water Resources (NR5)	88						
Food Resources, Production and Safety (NR6)	91						
New and Renewable Energy (NR7)	101						
Biotechnology and Genetic Engineering (NR8)	106						
The Third Topic: Infrastructure Development and Technology application and Implementation in Suez Canal Region and Sinai (TR)	109						
Eco-tourism and Archaeological Tourism (TR1)							
Development of the New Technological Zones (TR2)	111						
Construction Technology and Urban Planning (TR3)	112						

Development of Construction and Production Materials (TR4)	118
Machinery and Equipment Technology (TR5)	120
Information & Communication Technology and Remote Sensing (TR6)	123
Development of Transportation and Communication Facilities (TR7)	130
Matrix for Activities of the Faculties in the University Research Plan	133





The Research Plan of Suez Canal University 2013 - 2023

Introduction:

Suez Canal University was established at the issuance of the Presidential Decree No. (93) of 1976 to meet the needs of the Suez Canal region and Sinai and their reconstruction. Therefore, the research plan of the university has been developed to solve their problems and take advantage of the resources and facilities available in this area. Suez Canal University is looking to achieve an advanced position of innovation and competing scientific research in all areas to solve the problems of industry, agriculture, trade, tourism, economy and other fields and contribute in the development of available human & natural resources and the development of infrastructure in this area.

The university encompasses 16 faculties in two branches, Ismailia and Al-Arish:

Faculties of Ismailia Branch

Faculty of Education

Faculty of Science

Faculty of Agriculture

Faculty of Medicine

Faculty of Veterinary Medicine

Faculty of Commerce

Faculty of Pharmacy

Faculty of Dental Medicine

Faculty of Computers and Informatics

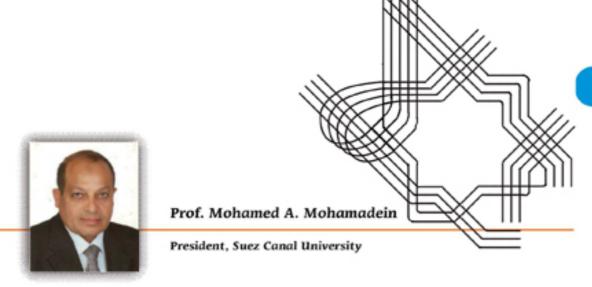
Faculty of Arts and Humanities

Faculty of Nursing

Faculty of Engineering

Faculties of Al Arish Branch

Faculty of Education
Faculty of Agricultural Sciences
Faculty of Physical Education



The history of Suez Canal University dates back to 1976 when the university was established by the presidential decree no. 93 of 1976. The establishment of the University was meant to meet the needs and reconstruction of the Canal Zone. Therefore, the research plan of the University has been developed to meet the needs of the community of the Suez Canal and Sinai, solve their problems and take advantage of the resources and facilities available in the area. Suez Canal University is looking to achieve an advanced position in the field of innovation and scientific research able to compete globally in all areas related to solving the problems of industry, agriculture, trade, tourism, economy and other fields, to contribute to the development of human and natural resources available and the development of infrastructure in the civil society.

Suez Canal University has developed a research plan that will be implemented over the next ten years. This plan includes scientific research topics and activities proposed for implementation. It is a future vision whereby the University is trying to focus on research that directly leads to the development of both the community and its environment to workout a plan of action that will allow every college and researcher to work within the boundaries of a systematic research plan.

In this context, registration for Master's and Doctoral degrees in all faculties will be confined to research points that are associated with fields and activities of the University's research plan and that contribute to the achievement of its goals. According to the University strategy, the goals that the University research plan seeks to achieve are:

- To provide practical solutions to the problems and needs of the Suez Canal and Sinai region
- To provide a suitable environment for learning and upgrading university researchers and staff members in all colleges of the University
- To encourage graduates to continue their research after graduation and enroll in postgraduate programs
- To attract researchers from other Arab and foreign countries
- The University is to become a center of excellence in the field of applied scientific research and innovation
- The University is to have a leading role in partnerships and cooperation with international universities and research centers

Three main topics of the research plan of Suez Canal University have been identified which aim to serve the Suez Canal region and Sinai. A great effort has been made by the sector of Graduate Studies and Research in the development of this research plan and therefore I would like to offer them my thanks and appreciation.



Science and knowledge, which lead to new ideas and innovations, are two of the most important factors in the success of economy that relies on the use of knowledge and modern science. The growing competition between institutions and developed countries requires visions and plans that depend mainly on science and knowledge. Such visions and plans will be implemented by open-minded youth who are familiar with the scientific and latest methods of technology and its useful applications as the basis for success. In light of the recent technological and scientific developments worldwide, universities have become prominent not only as centers of human development, but also as houses of expertise, centers of excellence, and incubators of ideas and small projects which have a direct impact on the development of the surrounding environment.

Suez Canal University is remarkable for its human resources, outstanding scientists and young researchers, as well as the nature of its surrounding environment which is rich in natural sources and wealth. Therefore, Suez Canal University aspires to be one of the best universities in the Arab world and Africa in the next ten years, not only by providing distinctive educational services, but also by providing knowledge, ideas and innovations that help in the development of the Suez Canal region and Sinai. With that in mind, Suez Canal University believes that its future depends mainly on its researchers and scientists to develop a road map of an ambitious research plan that involves the university professors and young researchers, taking into account distinctive & diverse disciplines of the university, its research centers and its special units, published research, scientific conferences and their recommendations. The university also hopes to attract the participation of the civil society in the Suez Canal region and Sinai, as well as keeps in its mission the main dimensions of the national plan of the state and the recommendations of the specialized national councils.

The implementation of the university research plan depends on multiple programs and research projects funded by local and international bodies, which participate in the implementation of the research plan in all faculties, departments and research centers of the university. The implementation of this plan will have a direct impact on the success of the university and helps to maintain its progress in the academic ranking of world universities, as well as on the dissemination of knowledge and development of society.

A great effort has been made to develop this research plan and make it executable, and I would like to offer my thanks and appreciation to the university cadres, professors, researchers, employees, and workers who actively and devotedly participated in the development of the plan.

Vision of the Post-Graduate Studies and Researches Sector

The Graduate Studies and Researches Sector at Suez Canal University seeks to be a center of excellence in the fields of specialized graduate studies, applied scientific research, technology transfer & marketing, innovation support and development projects in the Arab and African worlds.

Mission of the Post-Graduate Studies and Researches Sector

The Graduate Studies and Research Sector at Suez Canal University seeks to provide updated for Graduate Studies programs that contribute actively in the preparation of university and professional staff qualified to compete in scientific, literary and educational fields as well as supporting applied scientific research related to the development of human & natural resources, development of infrastructure in the Suez Canal and Sinai area and providing scientific solutions to its problems.

Aims

According to the strategy of the Graduate Studies and Researches Sector, the goals that the university research plan seeks to achieve are:

- The university is to become a center of excellence in the field of applied scientific research and scientific innovation.
- To achieve a leading position in the global ranking of universities.
- The university is to hold a leading role in partnerships and cooperation with international universities and research centers.
- To provide practical solutions to the problems and needs of Suez Canal and Sinai region.
- To provide an appropriate environment for learning and upgrade university researchers and faculty members in various faculties of the university.
- To encourage graduates to continue their studies after graduation and enroll in graduate programs.
- To attract researchers coming to Egypt from various Arab countries and some countries of the world.

Strategic Objectives of the Research Plan

The research plan of Suez Canal University aims to achieve the following strategic objectives:

- To strengthen research capacity and infrastructure of the University for scientific research.
- To contribute to the establishment of research centers in different areas of applied studies.
- To support and encourage excellence, innovation, development and invention.
- The development of positive values [][at the university on the ethical and technical level, and to establish ethical principles of knowledge, research, investigation, experimentation and teamwork.
- Positive impact on the community through research and research projects related to the problems and development programs in Suez Canal and Sinai region.
- Making use of rapid technological and scientific developments in the fields of scientific research.
- To encourage inter-disciplinary research and scientific & applied research and studies.
- To establish expertise houses to provide advisory expertise for organizations industrial and productive institutions for the service of environment and community development.

References of the Research Plan

In developing the research plan, it was taken into account that the university research orientations should be derived from the Strategic Plan for Scientific Research in the country as well as the trends of Specialized Scientific Councils which include the following fields: new and renewable energy, solar technology, water resources and technology of water use, agriculture, food, health, nanotechnology, manufacturing technology and pharmaceutical research, new resources technology, biotechnology and genetic engineering, nuclear technology, environmental elements and climate change, computer science and artificial intelligence.

The Main Pivots of the Research Plan

Based on previous references of the research plan, three main topics of the research plan for the Suez Canal University, which aim to serve the Suez Canal and Sinai, have been identified:

The First Topic: Development of Human Resources in Suez Canal Region and Sinai (HR)

- Public Health care. Development of Treatment Methods and Prevention of Diseases and Epidemics (HR1)
- Development of Behaviors, Attitudes and Human Skills (HR2)

The Second Topic: Protection, Preservation and Development of Natural Resources in Suez Canal Region and Sinai (NR)

- Protecting Instinct Life and Biodiversity (NR1)
- Epidemics, Environmental Pollution and Climate Changes (NR2)
- Rational Utilization of Natural Resources (NR3)
- Drug Manufacturing from Natural Resources (NR4)
- Preservation and Development of Water Resources (NR5)
- Food Resources, Production and Safety (NR6)
- New and Renewable Energy (NR7)
- Biotechnology and Genetic Engineering (NR8)

The Third Topic : Infrastructure Development and Technology application and implementation in Suez Canal Region and Sinai (TR)

- Eco-tourism and Archaeological Tourism (TR1)
- Development of the New Technological Zones (TR2)
- Construction Technology and Urban Planning (TR3)
- Development of Construction and Production Materials (TR4)
- Machinery and Equipment Technology (TR5)
- Information & Communication Technology and Remote Sensing (TR6)
- Development of Transportation and Communication Facilities (TR7)

General Trends of the Research Plan

- Establishing links between researchers from the departments and faculties of the university to achieve cooperation and coordination among them and to serve the research plan of the university.
- Making use of the resources and facilities available at the university and funded research projects.
- Maximizing the benefit from unique specialties at the university related to the resources derived from the rich environment.
- Taking care of the needs of the community and solving its problems.
- Establishing a link between scientific research and industry, the needs of the community and the business market.
- To take advantage of the various specialties of the university staff who have been prepared by the scientific missions abroad.
- Implementing the activities of the plan by faculty members, their assistants and graduate students where are they allowed to pursue masters or doctoral degrees or enroll in joint supervision missions, scientific tasks and local and international research projects and scientific agreements on topics related to the fields and activities of the research plan of the university.
- Cooperation and coordination with research organizations inside and outside Egypt for the development of scientific research.
- To raise the level of scientific research and contribute to scientific and technological progress in Egypt.
- Commitment to global ethical standards to protect the rights of the researcher and the community.

Core Values of the Scientific Researches

- Scientific integrity and commitment to academic and ethical standards.
- Credibility, transparency and maintenance of academic freedom and intellectual property rights.
- Development of effective teamwork.
- Commitment to justice, equality and equal opportunities.

Procedures of Research Plan Preparation

The Council of Graduate Studies and Research put the general trends of the research plan derived from the general plan of the country and discussed and defined the role of the faculties. The Council sent the plan to the university faculties where the Committee of Graduate Studies and Research in each faculty developed the outlines and trends according to the main topics of the research plan of the university and then sent them to the academic and scientific departments to identify the activities they can carry out and identify aspects of the research plan of the department to get approval of the boards of departments and to submit them to the Committee of Graduate Studies and Research to formulate a research plan for the faculty that is approved by the Faculty Board. The research plans of the faculties were presented to the Council of Graduate Studies and Research of the University for discussion, approval, and drafting of the research plan of the university.

Fund Raising and Research Support

Sources of research fund raising at the university include:

- Scientific projects funded by various overseas funding agencies such as the European Union projects and others.
- Scientific projects funded by the funding agents inside Egypt such as Science and Technological Development Fund (STDF), the Academy of Scientific Research, The Industrial Modernization Centre (IMC), the Arab Development Fund, Misr El Kheir Foundation and others.
- Financing of the beneficiaries of the Applied Research funded by medical drugs and oil companies, factories, and different institutions.
- University Research Fund, which is supported through the allocation of a percentage of revenue funds of the university and faculties for scientific research and getting a percentage of the tuition fees for Graduate studies (Egyptians and expatriates).
- International and domestic grants, donations and contributions.

Priorities of Research Support:

Scientific research is funded according to one of the following factors:

- Achieving one or more aspects of the activities in the research plan of the university.
- Achieving cooperation and partnership between the scientific departments in faculties.
- Be in one of the unique fields of the university and have more possibilities to be implemented.
- Contributing to the development and solving the problems of society in the Canal region and Sinai.
- Contributing to the environment and taking advantage of its sources.
- Be published in international highly classified journals.

Elements to Achieve the Research Plan

Committee of Scientific Research Ethics (CSRE)

It is a committee related to the Vice President for Graduate Studies and Research that aims to make sure that the research topics and implementation procedures match global standards for research ethics. The Graduate Studies Committee in each faculty submits research which is related to humans, animals and the environment to the Committee of Ethics of Scientific Research at the university to get the final approval. The unit has a web page on the site of the university, containing all the necessary data and models of the activities of the unit. The unit organizes workshops to raise awareness of the ethics of scientific research.

Office of Scientific Publishing (OSP)

The office seeks to provide services to faculty members and their assistants on scientific publication of research articles, books and references, at the international or domestic levels, and holds training courses and workshops to raise their competence in this field. A standard for scientific journals has been put in the faculties of the university including criteria for the formation of the Board of Directors and the Editorial Board of the journal, and identifying the tasks and responsibilities of financial, administrative and technical aspects of them. The list also includes criteria for selection of reviewers, Egyptians and foreigners, in scientific and literary journals, their fees, the role of patrons of the journal and the rules and fees of publication, methods of paper and electronic publishing, steps to register in the journal and get local and International Standard Serial Numbers, and the Financial Regulations of the journal.

Technology Innovation and Commercialization Office (TICO)

It is divided to three related offices:

A - Technology Transfer and Marketing Office (TTO)

The office works within a system for technical support within the organizational structure of the sector of Graduate Studies and Research. The office provides transfer of skills, knowledge and methods of technology and research and models of application and manufacturing as well as the transfer of information about the potential and facilities available among different institutions in Egypt and abroad so as to ensure access to a large base of users who can develop and exploit technology to develop products and materials or to provide services using the ways and methods and new applications of modern technology.

The office provides services that include: providing counseling, giving advice and facilities, opening bridges of cooperation between the university and industrial institutions to transfer research results into products and services that serve the needs of the community.

The office also works to push the most promising research topics to mature and to promote applicable and marketable research and development, transfer and support of innovations. The office also works on the exchange of technical information, the use of methods of education and training and the use of modern software to solve the problems of the industry and facilitate the exchange of information to serve the community and assist in agreements and effective partnership in the transfer of new technology to the market using external support resources available.

The office does feasibility studies for research, discusses research points that are made according to the research plan and be applicable, provide solutions to existing problems for the benefit of the surrounding community, and identifies the beneficiary institutions which will be responsible for financing. Rights of the researcher and financier are also determined in the form of an agreement.

B- Technology Innovation Support Center (TISC)

The office seeks to spread and develop an awareness of IPR protection and its related fields such as copyright, patent, trademark and industrial designs and planning designs and others within Suez Canal University, through the dissemination of publications and the organization of scientific meetings, seminars, conferences, workshops, and training courses. The office works to expose innovative creativity of innovators, disclose the innovations they make, and open channels of communication between the University and the local, regional and international organizations of Intellectual Property Rights, such as the Egyptian Center for Intellectual Property and Information Technology ECIPIT and the Egyptian Patent Office related to the sector of technological development and scientific services at Academy of Scientific Research and Technology.

The office adopts the patents offered by researchers at the university and opens channels of communication between them and the Academy of Scientific Research and Technology to facilitate the procedures for registration of the invention inside Egypt to preserve the rights of inventors in the registration of the invention locally for a period of thirty months. This period allows the Unity of Technology Transfer and Commercialization at the university in cooperation with the Academy of Scientific Research and Technology to study international registration of the invention.

C- Grants and International Cooperation Office (GICO)

The office interested in linking between faculty members and their assistants from different fields of specializations to facilitate the formation of research teams who are able to conduct good research projects that serve the university and contribute to solving the problems of society.

The office is providing a detailed database of institutions and national and international organizations that support research projects and technology transfer projects and provide service activities with the aim of spreading, between faculty members and researchers at the university, the culture of applying for funding for competitive research projects. The office also allows for communication among various local and international institutions interested in the financing of research projects such as the Fund of Science and Technological Development – Programs of Projects funded by the European Union – the Japanese Agency for International Cooperation – the German Academic Cooperation. The office is interested in supporting faculty members in writing and presenting projects, the implementation, management and follow-up activities of these projects, and coordination between the projects financed within the university to benefit from them and ensure the continuity of project activities after the end of funding.

University Education Development Center and Projects Management Unit (UEDC-PMU)

The centre is supporting the use of information technology in the development of higher education, scientific research, administrative performance, and abilities of leaders, faculty, students and university workers. The centre plays a leading role in positive interaction with higher education institutions and other relevant institutions and with the business community and civil society in the areas of continuous development to ensure the quality of output and improve performance. The center supervises several centers and sub-units such as:

First: Faculty and Leadership Development Center (FLDC)

The center prepares programs and training courses aimed at developing the abilities of faculty members and their assistants inside and outside the university in order to improve competitive efficiency of the output of the educational and research process, and provide programs for academic leaders and university workers to develop their leadership and management abilities. The center also is interested in applying international standards for the training of trainers to create a scientific environment for training activities between employees inside and outside the university.

Second: Quality Assurance and Accreditation Center (QADQC)

The center seeks to create the right environment for institutional and individual evaluation between faculty members, teaching assistants and university workers. The center also aims to improve the quality of the educational process and its outputs. The center helps and supports the university faculties to apply for accreditation. The center includes two departments: quality and accreditation department and performance evaluation department.

Third: Graduate Students Participation Development Center (GSPDC)

The center attempts to improve skills of graduate students and researchers of thinking, understanding and self-learning, communication, teamwork, discussion, problem-solving skills, and management of criticism to form efficient researchers who can participate positively in university research activities and the activities of civil society.

Fourth: Information and Communications Technology Unit (ICTU)

This unit is interested in establishing infrastructure at the university based on standard criteria including computers, hardware, software, applications associated with them, linking university sectors via internal network on the one hand and the international network of information on the other hand, the establishment of an accurate and complete database on university sectors, create and update a website for the University, support elearning systems and digital libraries, training on the uses of information technology, as well as the integration of all elements of these components in the form of a coherent and sustainable structure. The unit supervises sub-centers in the fields of information and communication technology in the form of seven projects:

Management Information System (MIS)

This project is interested in the establishment of an information system that helps to increase the speed of decision-making and the establishment of a geographic database and unity for the development of information programs at the university. The project designs special programs that help provide electronic services to faculty members, teaching assistants, students, creating and managing e-mails for them, and achieving integration with the Portal of the university and e-learning. It is through the database the project can make use of the experiences of staff members to serve the community and solve its problems.

Portal

This project provides electronic services for all staff members, graduate students, researchers, and workers in the private sector and civil society using information and communication technology to increase the educational, research and administrative capacity of higher education and scientific research through the university website on the Internet.

E-learning

The project provides information to the learner through computers, networks and multimedia including audio, video, graphics, search engines, e-libraries and gateways in the shortest time and with less effort. E-learning does not eliminate the role of the teacher and the educational institution but helps to reformulate their roles.

Digital Library

This project develops and activates the work in university libraries to maximize the benefit of the scientific components of the library, to support education and scientific research, and to provide sources of knowledge for the researcher, including the contents of the libraries of the Egyptian universities, and the Masters and PhD theses of Egyptian researchers, researches of faculty members from Egyptian universities, research and scientific journals published by the Egyptian universities, and electronic sources of the Egyptian universities. The project also broadcasts an electronic archive of lectures, communicates with the world's major libraries for the latest books, and communicates with the world's major publishing houses for the latest scientific research.

Grid of Information and infrastructure

This project is the main pillar of the coordination between e-learning projects, digital library & e-library, the use of information technology training project, management information systems project, video conferencing network, e-learning and the website of the University. The network shall prepare human cadres trained on projects of information and communication technology able to achieve the desired goals.

ICTP Training

This center follows the rules and international standards in the field of training to upgrade the skills of faculty members, their assistants and university workers in the field of information technology and communications for the highest levels of performance and maximum use of continuous development in this field.

IT marketing

The project works on the dissemination of technological culture among the beneficiaries of staff members, students and workers through the definition and delivery of content and services provided by information technology projects and telecommunications. The project activities include the organization of workshops, implementation and distribution of posters, and the preparation and distribution of questionnaires to measure the benefit of the university and its sectors from the services provided by the projects. The activities include distribution of e-mails among academic faculty members, their assistants and university workers, as well as continuous coordination between projects of information and communication technology to provide information technology services required.

Fifth: Strategic Planning Unit

This unit develops, revises and updates the strategic plans, operational policies and mechanisms for supervision, evaluation and reform of departments and faculties of the university in various areas, including the area of scientific research and graduate studies, where research plans are reviewed and supported technically and activities are followed up for their continuity.

Fish Farming and Technology Institute

A fish farming center was established at Suez Canal University in Ismailia with funding from the Chinese government to contribute to the growth and development of fisheries and solve related problems in Suez Canal region and Sinai. Suez Canal University, since its establishment, sought to offer graduate programs in various applied fields in order to create human leaders capable of interacting with the variables of life and capable of competition in the labor market, as well as adopting a clear strategy in serving the territory of the canal and Sinai and developing its resources using the latest technological means to spread prosperity and provide necessities of life for all citizens. The university was convinced of the need to make good use and management of fish production and water resources in the territory of the Canal and Sinai. So, the university transformed the center of aquaculture into an Institute of Higher Studies that has goals of research and productivity in the fields of aquaculture.

The institute grants a diploma in Aquaculture and a professional master degree in Aquatic Hatchery Production and Aquatic Biotechnology as well as granting master and doctoral degrees in the fields of aquaculture research for graduates of faculties of Science, Veterinary Medicine and Agriculture, and it accepts graduates with biological background obtaining a Bachelor of Medicine, Pharmacy, Dentistry and Nursing. The institute also organizes training for specialized staff, conducts scientific research to improve various systems for aquaculture, feeding, spawning fish and other aquatic organisms and fish production to increase the rates of production and development of water resources in the region in order to provide safe food production to meet the needs of the community. The institute offers consulting and organizes seminars and conferences in the fields of water resources and aquaculture as well as raising awareness of the importance of fisheries and aquatic resources and the need to maintain them. Teaching and research in the center are carried out by staff members and assistants specialized in biological fields of aquaculture from faculties of Science, Agriculture and Veterinary Medicine.

Biotechnology Research Center

The center aims to collect scientific talents in different disciplines to create an integrated group that carries out projects of biotechnology. The center trains researchers from the faculties of Agriculture, Medicine, Pharmacy, Science, Veterinary Medicine, and Dentistry and provides scientific services to them and the opportunity to carry out their scientific experiments to get master and doctoral degrees, as well as conducting postdoctoral research in the laboratories of the center. The center organizes conferences, scientific symposia, workshops, and seminars to raise the capacity of researchers in the field of biotechnology. The center also opens communication channels with Egyptian universities and foreign research centers interested in the fields of biotechnology, and it provides a database in the field of biotechnology to serve the university professors and other universities and a scientific journal specialized in publication of biotechnology research locally.

Public Service Center for Languages

The work at the Public Service Center for Languages , Faculty of Education in Ismailia began in March 1984. The centre follows the supervision of the Vice President for Graduate Studies and Research. The center aims to develop training programs in the teaching of different foreign languages as well as the Arabic language to non-native speakers and bachelor and Graduate students from inside and outside the university as well as for the trainees from organizations, companies and institutions that require specialized training in the field of languages, as well as doing translation work by language lab and teaching aids and audio-visual facilities at the Old University Campus. The training courses provided by the Center include courses to learn English (five levels of primer - Pre average - average - above average - Advanced Level) - French - German - Chinese language by 3-hour exam to determine the level before the beginning of the session, 30 hours of instruction during the session and 3-hour final exam at the end of the session. The center accepts from 20 to 36 of students per class. The center also offers courses to learn English in specialized areas such as the fields of tourism and hospitality, medical and health fields, nursing, natural sciences, business areas, business administration, secretarial and computer field, and the field of mathematics.

The center offers courses to prepare for TOEFL test for graduate students, researchers and staff members of the university faculties and outside. The TOEFL certificate granted by the centre has been approved by the University Council as a condition for registration for master's and doctorate degrees. The content of preparation courses for TOEFL test consists of scientific material based on the results of the placement exam to raise the efficiency of the four language skills, as well as training on international and local tests. The duration of the study in this comprehensive course is 78 hours, including preliminary and final exams, divided on the days of the week for two months. The activities of the centre include courses on how to write theses in English to serve MA and PhD students in all faculties of the university for 18 hours per course. The center also does the work of translation of documents, researches and theses from foreign languages into Arabic and vice versa.

Scientific Equipment Database (SED)

It includes a database of all devices and scientific instruments which serve the research process in the faculties of the university. The database is updated annually to add new devices. All available data for these devices are made available to all researchers to achieve cooperation and coordination between the academic and scientific departments in various university faculties and encourage joint research in various disciplines.

International Students Services Office (ISSO)

The Office provides the required services for researchers, students, expatriates, which include registration procedures and grants, travel, holidays, payment of expenses, accommodation, health care and other matters necessary for researchers. The university also seeks to transfer the registration system to the electronic system to facilitate registration procedures to Egyptians and expatriates.

Office of Alumni

This office works on the establishment of a database for graduates and Graduates and open channels of communication to connect between them and the university in order to meet their needs on the one hand and to take advantage of their contribution to the development of the university and its technical and financial support on the other hand.

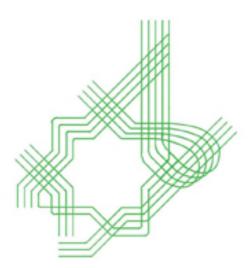
Mechanisms for the Commitment of Faculties with the Research Plan

Mechanisms of faculties 'commitment to the research plan were approved by the University Council on the recommendations of the Council of Graduate Studies and Research:

- Registration for MA and PhD degrees should be done in research subjects linked to the research activities of the university research plan and contribute to achieving its objectives.
- University research fund is allocated only for research that is being registered in accordance with the university research plan.
- Approval of researchers to travel, joint supervision missions, or faculty members 'travel on scientific and research missions according to the research topics derived from the research plan of the university.
- The travel fund for faculty members by the university to participate in conferences is given in the case of researches derived from the university research plan.
- Funding of research projects from the university's budget is for research projects derived from the university research plan.
- To develop a plan for financial and non- financial incentives (awards, certificates of appreciation, etc.) for each faculty and department that achieves the goals of the research plan through periodic follow-up (monthly, yearly, etc.).

Mechanisms to Assess the Annual Performance and to Measure Success Rate of the Faculties and Departments

The Council of Graduate Studies and Research has put criteria to assess the progress and success in the completion of the research activities of the plan, which will be of paramount importance in the success of the research plan and achievement of its goals. These criteria are based on the standards used in the evaluation of research projects funded by donors, both locally and internationally, including the number and quality of published research and its impact on the implementation of the research plan, patents and inventions, authoring and publishing books, awards granted locally and internationally, local and international conferences and exhibitions, overseas and domestic grants and scientific missions, membership in associations and scientific and research groups, relation to international and local industry, partnership with international and local scientific, research and industrial institutions, and the application of research and patents at industrial and semi- industrial levels.



The Executive Plan 2013-2023

First Topic

Development of Human Resources in Suez Canal Region and Sinai (HR)

- Public Health Care, Development of Treatment Methods and Prevention of Diseases and Epidemics (HR1)
- Development of Behaviors, Attitudes and Human Skills (HR2)

Public Health Care, Development of Treatment Methods and Prevention of Diseases and Epidemics (HR1)

Research	Activities	Faculties	Time	Plan	Performance Indicators	Budget
Fields		racuities	From	То	(Outcomes)	LE
A Compreh- ensive Survey of Health and Environmen- tal Problems in the Suez Canal region and Sinai	Collection of data available from various institutions. Data Completion via medical examination and investigations. Preparation of a map of health problems in the region. Identification of priorities to solve health problems.	Faculties of Medicine. Pharmacy, Dentistry, Nursing, and Science	2013	2016	The existence of a detailed database of health problems in the region. The existence of a mechanism for the annual update of the data. The existence of a map and statistical tables for health problems and suggested solutions.	1 million
Early Diagnosis, Prevalence, Risk Factors and Methods of Treatment of Liver Diseases	Identification of the prevalence of liver diseases and their types. Scientific studies to find new methods for the early diagnosis and treatment. Causes and means of diagnosis of viral hepatitis C. Identification of methods of prevention and treatment of viral hepatitis C.	Faculties of Medicine. Pharmacy, Dentistry, Nursing, and Science	2014	2023	The existence of a detailed database on the prevalence of liver disease in the region. Availability of new methods of diagnosis and treatment of the disease. An increase in the cure rates in the region by at least 5% annually. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by at least 10% annually.	3 million

Research	Activities	Faculties	Time	Plan	Performance Indicators	Budget
Fields	Activities	racuities	From	To	(Outcomes)	LE
Causes and Means of Diagnosis, Treatment and Prevention of Diabetes	Identification of the prevalence of diabetes and its types. The causes of the disease. Scientific studies on new methods of diagnosis and early detection. Identification of methods of prevention and treatment of the disease.	Faculties of Medicine, Pharmacy, Dentistry, Nursing, and Science	2014	2023	The existence of a detailed database about the prevalence of diabetes in the region. Availability of new methods of diagnosis and treatment of the disease. An increase in the cure rates in the region by at least 5% annually. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by at least 10% annually.	3 millior
The Prevalence of Tumors and Methods of Diagnosis and Treatment	Identification of the causes and prevalence rates of various tumors. Conduction of studies to identify new methods of diagnosis and early detection. The production of natural compounds for the prevention and treatment of the disease. Identification of new methods for treatment of the disease.	Faculties of Medicine, Pharmacy, Dentistry, Nursing, and Science	2014	2023	The existence of a detailed database on the prevalence of tumors in the region. Availability of new methods of diagnosis and treatment of the disease. An increase in the cure rates in the region by at least 5% annually. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by at least 5% annually.	4 million

Research	Activities	Faculties	Time	Plan	Performance Indicators	Budget
Fields	Activities	racuities	From	То	(Outcomes)	LE
The Prevalence of Parasitic Infections and Methods of Treatment	Survey on the prevalence of different parasitic diseases in the Suez Canal region and Sinai. Collection and classification of parasitic animal samples from the Suez Canal region and Sinai. The effect of parasites on experimental animals. The effect of natural compounds and drugs to treat parasitic infestations.	Faculties of Medicine, Science, Veterinary Medicine, Pharmacy, and Nursing	2014	2018	The existence of a detailed database on the prevalence of parasitic diseases in the region. A decrease in the incidence rate of parasitic infestations in the region by at least 5% annually. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by at least 10% annually.	1 million
Prevention and Treatment of Bacterial and Fungal Infections	Survey on the prevalence of different bacterial and fungal infections in the Suez Canal region and Sinai. Study and isolation of pathogenic species. Identification of new methods of prevention and treatment of bacterial and fungal diseases. Study of pathogenic fungi that infect human, especially infections of the skin.	Faculties of Medicine, Science, Veterinary Medicine, Pharmacy, and Nursing	2018	2023	The existence of a detailed database on the types and prevalence of bacterial and fungal infections in the region. A decrease in the incidence rate of these diseases in the region by at least 5% annually. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by at least 10% annually.	1 million

Research	Activities	Faculties	Time	Plan	Performance Indicators (Outcomes)	Budget
Fields		Lucuitacs	From	То		LE
Toxicity of Drugs Used in Treatment of Endemic Diseases in Suez Canal Region, Sinai and Methods of Prevention	Survey on the drugs used in the treatment of endemic diseases. Study of side effects and toxicity of drugs used for treatment, and their effects on biological characteristics of the body. Methods to decrease the side effects and toxicity of drugs.	Faculties of Pharmacy, Medicine, Veterinary Medicine, Science, and Nursing	2013	2020	The existence of detailed reports on side effects and toxicity of drugs that have been tested. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by at least 10% annually.	2 million
Food Safety and its Impact on Public Health	Collection of food samples from the Suez Canal region and Sinai and analyzing its components and determine their suitability. Experiments on the effect of feed on fish and livestock. Study of the effect of additives on different foods. Study of the methods of poisoning food treatment.	Faculties of Veterinary Medicine, Agriculture, Science, Pharmacy, Medicine, Nursing	2013	2020	Production of different type of safe foods for human health. New protocols and antidotes for the treatment of different types of food poisoning. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by at least 10% annually.	2 million
The Total Quality of Nursing Care and Patient Safety	Development of standards for care in all nursing specialties. Development of methods of monitoring and assessment in the field of nursing. Studies to maintain patient safety during transport and movement. Studies on prevention of infections in hospitals.	Faculties of Nursing and Medicine	2013	2018	The existence of standards for the total quality of nursing. The existence of mechanisms to monitor the implementation of nursing care and its total quality perfections. The satisfaction of not less than 70% of nursing care stakeholders. An increase in the rate of patient safety by at least 10% annually.	500000

Research	A collaboration	Town Ballon	Time	Plan	Performance Indicators	Budget
Fields	Activities	Faculties	From	То	(Outcomes)	LE
The Use of Modern Technology in Nursing Care	Studies to enhance and evaluate the use of modern technology in nursing. Nursing care for: - Chronic diseases. - Cancer patients. - Pediatric diseases. - Patients geriatric. - In the field of feminine health.	Faculties of Nursing, Medicine, Arts and Humanities and Education	2014	2023	The existence of specific protocols for nursing care in the study fields. The satisfaction of not less than 70% of nursing care stakeholders. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by at least 10% annually.	2 million
Emergency and Disaster Medicine	Development of protocols for the medical management of crises and disasters. Development of a protocol for nursing during crisis situations.	Faculties of Medicine, Pharmacy, Dentistry, Nursing, Arts and Humanities and Education	2013	2023	The existence of specific protocols for crisis and disaster management. The satisfaction of not less than 70% of the stakeholders of emergency medicine and disaster. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by at least 10% annually.	1 million

Research	Activities	Faculties	Time	Plan	Performance Indicators	Budget
Fields		Faculties	From	То	(Outcomes)	LE
Research on Diagnostic and Therapeutic Radiology	The effect of exposure to radiation doses on patients and staff and methods of radiation safety. Determination of the efficiency of the devices used for diagnosis and treatment. Studying role of computed tomography in various fields of medicine. Study of the uses of MRI in various fields of medicine. Uses of spiral CT scan uses in various fields of medicine.	Faculties of Medicine. Dentistry, Science and Nursing	2013	2018	An increase in the rate of safe use of radiation devices by not less than 10% during the implementation period. An increase in the rate of use of radiation devices in proper diagnosis of diseases by not less than 20% during the implementation period. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by at least 10% annually.	2 million
Anesthesia and Pain Treatment Researches	Modern applications and the drugs in the field of anesthesia and pain treatment. Use of therapeutic patches for the treatment of pain. Clinical evaluation of the use of different types of local anesthetics. The use of physical therapy in the treatment of pain. Study of active ingredients and medications for pain relief and their impact on health.	Faculties of Medicine, Pharmacy, Dentistry, Science, and Veterinary Medicine	2013	2023	The presence of at least 2 of the new techniques for the treatment of pain and stress. The satisfaction of not less than 70% of patients. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by at least 10% annually.	1 million

Research			Time	Plan	Performance Indicators	Budget
Fields	Activities	Faculties	From	То	(Outcomes)	LE
The Use of Modern and Nano- metric Methods and Applications in Dentistry	Preparation and use of Nano-metric polymers for removable dental implants. Preparation and use of silver Nano-particles in the treatment of diseases of mouth and teeth. Preparation and use of bioactive glass in dentistry. The impact of fillings and their various sources on the teeth. Strengthening the link between fixtures and teeth. Removable partial dentures. Fixed installation techniques for teeth. Re-mineralization of teeth enamel layer.	Faculties of Dentistry, Science, and Veterinary Medicine	2013	2023	Production of new materials used in various cases of dental diseases. The successful use of materials produced in at least 70% of the cases. The existence of new techniques and successful use of gingivitis treatment in at least 70% of the cases. Producing fillings similar to the color of teeth and the success of their use in 100% of the cases. An increase in the rate of published scientific research in international, highly cited journals by at least 10% annually.	2 million
Dental Tissue Engineering	Preparation of scaffolds for tissue from ceramic, polymer or mixtures. Description and comparison of materials prepared: In terms of the rate of biodegradation and ultrastructure. With pre-prepared materials in terms of the rate of biodegradation, physical and mechanical properties, and the ability to adhere to living tissue.	Faculties of Dentistry, Veterinary Medicine, and Science	2013	2023	The existence of modern scaffolds for tissue and its success in at least 70% of the cases. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by at least 10% annually.	1 million

Research			Time	Plan	Performance Indicators	Budget
Fields	Activities	Faculties	From	То	(Outcomes)	LE
Studies of Temporoma ndib-ular Joint	Promotion of Osseo integration in dentistry. Treatment of the diseases of temporomandibular joint. Use of prosthetic tissue to build jaw bones. Treatment of malocclusion between the jaws during growth.	Faculties of Dentistry, Pharmacy, Veterinary Medicine, and Science	2014	2023	The success of modern techniques in the treatment of at least 70% of jaw diseases. The satisfaction of not less than 70% of the stakeholders of the treatment of jaw diseases. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by at least 10% annually.	1 million
Dental Implants	The impact of Nanosized synthetic bone grafts on the formation and growth of bone around instant dental implants. Assessment of the immediate loading of small dental implants compared to traditional implants. Assessment of lifting of the nasal floor in synchronization with dental implants. Assessment of the optimal time to load immediate implants beside treatment with antibiotics to replace the upper teeth affected with chronic pollution around the roots.	Faculties of Dentistry, Veterinary Medicine, Science, and Pharmacy	2014	2023	The existence of new techniques applied for dental implantation and their success functional in morphological and terms in not less than 70% of the cases. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by at least 10% annually.	1 million

Research	Activities	Faculties	Time	Plan	Performance Indicators	Budget
Fields	Activities	Faculties	From	То	(Outcomes)	LE
Treatment Methods of Teeth and Teeth Roots Diseases	Treatment methods of complications of dental extraction. The injured nerve formation. Cleaning methods and ability formation by different. The effect of antiseptic as well as a lotion to infected and dead root canals. The effect of fibrous wedge design to resist breakage of the endodontic treated upper premolars.	Faculties of Dentistry, Pharmacy, Medicine, and Veterinary Medicine	2014	2020	New empirical techniques for the prevention and treatment of complications of dental extraction, treatment of nerve, cleaning of teeth, and the successful use of each of them in at least 70% of the cases. The existence of new technologies applied to clean teeth and the formation of files. The satisfaction of not less than 70% of the recipients of new technologies. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by at least 10% annually.	1 million

Research	Activities	Faculties	Time	Plan	Performance Indicators	Budge
Fields	Activities	Faculties	From	То	(Outcomes)	LE
The Health of Mouth, Gingiva, and Teeth	Prevention of acid corrosion of deciduous teeth. Relationship between severe tooth decay in early childhood and iron deficiency anemia in preschool age children. The impact of health education programs on teeth health status of elementary school students. Evaluation of treatment materials for vital pulpotomy in primary molars. Different ways to help reduce microbial stain and gingiva infections in adolescent orthodontic patients. The psychological impact of dental malocclusion on school children. Treatment skeletal malocclusion. Maxillary protraction using orthodontic miniplates. Evaluation of dental changes during maxillary expansion. Relation between canin position and jaw morphology. Study of skeletal relationship using cone beam C.T.	Faculties of Dentistry, Education, and Arts and Humanities	2013	2023	The existence of statistics that determine oral health and children's teeth problems. The success of the methods used in the treatment of dental problems in children in not less than 70% of the cases. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by at least 10% annually.	1 millio

Research	A contraction		Time	Plan	Performance Indicators	Budget
Fields	Activities	Faculties	From	То	(Outcomes)	LE
Family Health	Mother health before, during and after pregnancy and delivery. Health of females after menopause. Studies related with mother and babies feeding, health support and prevention of diseases. Studies of chronic diseases (diabetes, and heart diseases) of the mothers. Studies on methods of infection control in health institutes	Faculties of Medicine, Pharmacy, Dentistry and Nursing	2013	To 2023	1000	5 million
)}		

• Development of Behaviors, Attitudes and Human Skills (HR2)

Research	Activities	Faculties	Time	Plan	Performance Indicators	Budget
Fields	Activities	Faculties	From	То	(Outcomes)	LÉ
Development of Human Resources in the Physical Education Sector	The physiological determinants of the selection of the best elements from the environment of Sinai and the Suez Canal zone to suite its own styles. Development of physical education curriculum, and refine physical education teachers to improve health level of basic education students. Studies on the development of professional leadership styles for those in charge of sports clubs, youth centers, and sports sectors in university institutions. Studies on the formation of positive trends among community members in Sinai and the Suez Canal zone towards effective participation in sports programs by measuring the trends of the community members. Studies on leisure time and recreation for the youth sector in the Suez Canal zone and Sinai and for visitors in the summer. Studies to maximize the importance of school sports.	Faculty of Physical Education, Education and Medicine	2013	2023	The satisfaction of not less than 70% of the recipients of sporting activities. Increase in the number of qualified teachers to handle the sports education requirements of primary & preparatory levels by at least 5% annually. Increase in the number of enrolled members of sports clubs by not less than 5% annually. Implementation of programs for the development of Sinai youth and useful occupation of leisure time to promote the overall environment of Sinai. An increase in the rate of implementation of school sports programs by at least 5% annually.	1 million

Research	Activities	Faculties	Time	Plan	Performance Indicators	Budget
Fields	Activities	racuities	From	То	(Outcomes)	LE
Violence, Intolerance, and Behavioral Trends Modification	Research and analysis of the phenomenon of violence and study the behavior of different social classes. Research and analysis of the phenomenon of violence in prisons and asylums. Methods of sports cheering and commentary. Study of sports fanaticism on phonological, morphological, compositional, lexical, and semantic levels through communication with fans and cheerleaders.	Faculties of Arts and Humani- ties, Physical Education and Education	2013	2023	The existence of a detailed study of all manifestations of violence and reasons of intolerance in sports. Low rates of violence among groups in society by not less than 5% annually. An increase in compliance rates in cheering by not less than 5% annually. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually.	100000
The Arab Tribes and their Evolution in Sinai and Eastern Delta	Studies on the Arab tribes in eastern Delta and their transition to Sinai. Study of the evolution of the Arab tribes since the Islamic conquest until now.	Faculty of Arts and Humanities	2013	2015	 The existence of a detailed study on the evolution of the Arab tribes. 	40000
Folk Arts of the Cities of Suez Canal and Sinai	Studies on folk arts in Suez Canal zone and Sinai. Linguistic studies of folk arts in Suez Canal zone and Sinai.	Faculty of Arts and Humanities	2013		The existence of a detailed study of arts and their expression of reality. An increasing interest in folk arts by not less than 5% annually.	40000
Assessment of the Status of Women and the Egyptian Feminist Movement	The history of the feminist movement in Egypt. Comparison of the feminist movement in Egypt to the world women's movement. Assessment the status of women and the feminist movement in the Suez Canal zone and Sinai.	Faculty of Arts and Humanities	2013	2023	The existence of documentation on women's rights and their problems in the region. The satisfaction of not less than 70% of recipients of women's rights.	50000

Research	Activities	Faculties	Time	Plan	Performance Indicators	Budget
Fields	Activities	racuities	From	То	(Outcomes)	LE
The Role of Mosques and Qur'an Memorization in Maintaining Arabic Language in Suez Canal Region and Sinai	The role of memorization of Qur'an and mosques in maintaining the Arabic language in Suez Canal zone and Sinai on different levels: Phonological. Morphological and semantic. Lexical.	Faculty of Arts and Humanities and Education	2013	2023	An increase in the rate of linguistic and acoustic performance of students by not less than 10% annually. An increase in the number of the Qur'an memorizers by not less than 10% annually. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually.	50000
Critical Discourse Analysis in Suez Canal Region and Sinai	Critical Discourse Analysis of: Political powers. Non-governmental organizations. Different social groups to know their discourses.	Faculty of Arts and Humanities and Education	2013	2023	The existence of analytical reports on critical discourse and how it relates to the type of profession in the region. The satisfaction of not less than 70% of the beneficiaries of critical discourse.	30000
Different Dialects and Languages in Suez Canal Region and Sinai	Studies on speakers of different dialects. Studies on speakers of different languages. Studies on the relationship between speakers of a language and linguistic group. Studies on comparative and applied linguistics.	Faculty of Arts and Humanities and Education	2013	2023	An increase in the rate of understanding the differences between languages and dialects by not less than 70% of the recipients. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually.	60000

Research	Activities	Faculties	Time	Plan	Performance Indicators	Budget
Fields	Activities	Faculties	From	То	(Outcomes)	LE
Words and Social and Intellectual Phenomena of Traditional Crafts in Suez Canal Region and Sinai	Study of words and social and intellectual phenomena on: Phonological level. Compositional level. Lexical level. Social and intellectual level.	Faculty of Arts and Humanities and Education	2013	2023	The existence of detailed studies of words and social and intellectual phenomena of traditional crafts in Suez Canal zone and Sinai. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by at least 10% annually.	30000
The Impact of Written Language of Advertisem- ents in Suez Canal Region and Sinai	The relationship between ads and: Commodity advertised. Owners of shops. At compositional, morphological, lexical and semantic levels with marketing experts.	Faculty of Arts and Humanities and Education	2013	2023	High rate of confidence and use of shopkeepers of the results of the study in their ads by not less than 70%. The satisfaction of not less than 70% of the recipients of the shops ads. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually.	50000
Studies on Contempor- ary Lingual Issues	Linguistic borrowing. The theory of the syllable. The theory of composition. The linguistic code. The hybrid and derivational. The origins of dialects.	Faculty of Arts and Humanities and Education	2013	2023	The existence of detailed studies on the origins and comparisons of dialects. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually.	25000

Research	Activities	Faculties	Time	Plan	Performance Indicators	Budget
Fields	Activities	racuities	From	То	(Outcomes)	LE
A Semantic and Linguistic study of Documents and Ancient Manuscripts	A linguistic and semantic study of documents in the Suez Canal area at morphological, synthetic, lexical, and semantic levels. Studies on the ancient Egyptian language. Studies on Coptic and Islamic manuscripts.	Faculties of Arts and Humanities Education, and Tourism and Hotels	2013	2023	The existence of semantic studies of the documents of the Suez Canal. The existence of detailed studies of the Coptic and Islamic manuscripts and ancient Egyptian language. An increase in the rate of understanding of the documents and manuscripts and their historical significance by not less than 70%. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by at least 10% annually.	80000

Research	A - 4 - 4	Familia	Time	Plan	Performance Indicators	Budget
Fields	Activities	Faculties	From	То	(Outcomes)	LE
Arab Literature Issues	Study of the issues of ancient Arab literature. Study of the issues of Arab literature (pronunciation and meaning). A comparative study between the issues of ancient and modern Arab literature. Greek influences in Arabic rhetoric. Research and analysis of the emergence of modern literary genres. Study of modern techniques of narration in literary works.	Faculty of Arts and Humanities and Education	2013	2023	High rate of awareness of the dialectical relationship between different literatures of the recipients by not less than 70%. An increase in the rate of recognition of modern literary genres and their relations with economic and social variables among the recipients by not less than 70%. Measuring changes in students as a result of this study and their ability to use curriculums efficiently.	90000
Translation Studies	Studies on translations and accurate formulations. Studies on translations from Arabic into foreign languages. Studies on translations from foreign languages into Arabic. The impact of translation on the literary movement in Egypt. The impact of translation on the literary movement in the Arab world.	Faculty of Arts and Humanities and Education	2013	2023	An increase in the rate of translation work and drafting by not less than 10% annually. The existence of studies on the importance of the interaction between different languages and different literatures. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually.	100000

Research	Activities	Familia	Time	Plan	Performance Indicators	Budget
Fields	Activities	Faculties	From	То	(Outcomes)	LE
Palestinian Issue and the Historical Relations between Eastern & Western Worlds	Studies on history of the Palestinian case Research and analysis of the role of Egypt in the Palestinian cause. Scientific research and analysis of the historical relations between the Eastern & Western Worlds. An analytical study of the impact of the historical relations between the Eastern & Western Worlds.	Faculty of Arts and Humanities. Education and Commerce	2013	2023	An increase in the rate of recognition of Egypt's pivotal role in the Palestinian issue by not less than 70%. An increase in the rate of understanding of impact and vulnerability in the relations between the Eastern & Western Worlds by not less than 70%.	150000
Hotel Management	Studies on total quality management in hotel industry. Studies on the development of the workers skills in the field of tourism and hotels. Studies on the quality of food and drinks and their importance in hotel industry.	Faculties of Tourism and Hotels and Commerce	2013	2020	The satisfaction of not less than 70% of recipients of the services of a hotel. Implementation of programs to develop the skills of workers in tourism and help workers to pass evaluation. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by at least 10% annually.	100000

Research	Activities	Faculties	Time	Plan	Performance Indicators	Budget
Fields	Activities	racuities	From	То	(Outcomes)	LE
Tourism and Hotel Marketing in the Canal Region and Sinai	Studies on medical, religious, beach tourism in the region. Studies on the development of tourism area in the region. The development of tourism in the region.	Faculties of Tourism and Hotels and Commerce		2023	Existence of a database and brochures on Tourism attractions in Suez Canal zone and Sinai. Increase in number of tourists and visitors to the region by at least 5% each year. The satisfaction of not less than 70% of visitors of the Tourism attractions. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by at least 10% annually.	100000

Research	Activities		Time Plan		Performance Indicators	Budget
Fields	Activities	Faculties	From	То	(Outcomes)	LE
Pre- university Education	Restructuring of pre- university education in the light of the current and future requirements and challenges. Implementation of quality standards in pre- university education. The role of pre-university education in knowledge society. Attitudes, philosophy and applications of learning in pre-university education. Indicators of the quality of education and its role in improving the quality of community life. Preventive and aesthetic education. The efficiency of pre- university education in achieving objectives of sustainable development. The role of studies of educational quality in achieving objectives of sustainable development.	Faculties of Education	2013	2023	The existence of a detailed study on the changes in the research system in the scope of education and sustainable development. The existence of a detailed study on the changes in the system of education in its different elements. Implementation of plans for the development of the educational process on at least 4 schools in the region annually. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of utilization of research on the local and community level by at least 10% annually. The satisfaction of not less than 70% of the recipients of pre-university education.	10000

Research	Activities	Faculties	Time	Plan	Performance Indicators	Budget
Fields	Activities	racuities	From	То	(Outcomes)	LE
Education Policies, Planning, and Economics	Criteria and performance indicators for educational policy-making. Social justice and educational policy. Citizenship and educational policy. The role of educational planning in guiding the process of educational expenditure and revenues. Advantages and disadvantages of free education economically and socially. The concept of community participation within the educational institution. Interest groups and lobbyists and their role in educational policy-making.	Faculties of Education and Commerce	2013	2018	The existence of clear educational policies in the region. An increase in the rate of publication of educational research on education policy, planning and economics by not less than 10%. An increase in the ability of researchers to employ modern theories in the field of economics of education by at least 20% annually.	100000

Research	Activities	Faculties	Time Plan		Performance Indicators	Budget
Fields	Activities	Faculties	From	То	(Outcomes)	LE
Educational Administrat- ion and Structure	The status of school management in the light of national quality standards. Discipline for student and the teachers. Professional development programs for educational departments in accordance with national quality standards. The role of educational administration: Decentralization activity. Activating school training centers. Facing management crisis. Preparing schools for accreditation. Contemporary trends in the development of educational administration. Unification of secondary education. The impact of pluralism in education. Comparative studies between Egypt and other countries in the field of educational administration.	Faculties of Education, Arts and Humanities, and Commerce	2013	2018	The existence of detailed studies (strengths, weaknesses, opportunities and threats): The status of school management in the region. Discipline for student and the teacher. The role of educational departments and programs of professional development. Changes in the structure of education. The existence of plans for the development and their implementation on educational departments in the Canal and Sinai. The existence of plans to prepare schools of the Canal and Sinai for accreditation. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. The use of applied research published locally by at least 10% annually.	100000

Research	Activities	Faculties	Time	Plan	Performance Indicators	Budget
Fields	Activities	Faculties	From	То	(Outcomes)	LE
Professional Preparation and Development of Teachers	Assessment of teachers expected roles and actual outcomes. The role of the faculty of Education between two systems: sequential and complementary. The criteria for the selection and preparation of a future teacher. The role of teaching practice in the process of teacher preparation. Preparation of prekindergarten teachers. In-service training of teachers. Characteristics and roles of modern teachers.	Faculties of Education, Arts and Humani- ties, and Comput- ers and Informa- tics	2014	2019	The existence of specific criteria for the selection and preparation of teacher applied on not less than 70% of teachers in the region. The satisfaction of not less than 70% of the recipients of preparation programs. Success of teachers in evaluation programs by not less than 70%. Monitoring changes in the field of teacher preparation and professional development. The use of applied research published locally by at least 10% annually.	1 million
The Developme nt of Educational Programs in Accordance with Quality Assurance and Accreditation	The status of educational programs and curricula in Egypt and their relationship to national and international standards of quality and accreditation. The standards and criteria that will be used to develop educational programs. Preparing a plan to develop programs and curricula in the light of the standards of quality and accreditation. Developing mechanisms for observation and evaluation of the plan of educational programs and curricula development. Developing plans for continuation in the light of new knowledge and the requirements of contemporary life and labor market.	Faculties of Education and University Faculties	2014	2023	The existence of a detailed study on the changes in the system of educational programs and curricula and its different elements. The existence of development plans and mechanisms for implementation, monitoring and evaluation of the elements of the educational process. Increase in the number of faculties ready for accreditation by at least 5% annually.	1 million

Research	A - al-dal	Familia	Time	Plan	Performance Indicators	Budget
Fields	Activities	Faculties	From	То	(Outcomes)	LE
Educational Programs, Curricula, and Foreign Education in Egypt	Developing a general framework to take advantage of foreign educational programs and curricula and choose what is suitable for the Egyptian environment. Applying latest educational research in foreign countries and their application in the Egyptian schools to promote the level of student achievement in school subjects.	Faculties of Education and Arts and Humani- ties	2014	2023	High levels of student achievement by not less than 10% annually High rates of student motivation towards learning by not less than 10% annually. Implementation of programs to develop positive attitudes towards learning and the development of types of thinking among students in the region.	1 million
Modern Global Trends in Methods of Teaching and Application in Schools	Educational research climate supportive of innovation & creativity. Studies on the effect of: Integration of different courses on the development of achievement, attitude, and types of thinking. Brain-based learning on student achievement and motivation. Mental maps on the academic achievement of students and on some types of thinking. Principles of learning on achievement and development of trends. Study of the effectiveness of exclerating learning in the development of student achievement and deductive thinking. Evaluative studies of programs in the field of Distance and open learning as an assistive aspect of the educational process at school.	Faculties of Education	2014	2023	The use of thinking-based teaching methods and ways on the students in least 2 school a year. High rates of student achievement level by not less than 10% annually. High rates of student motivation towards learning by not less than 10% annually. Success of students in programs that rely on thinking by not less than 10% annually. The existence of an annual assessment of programs of Distance and open education recipients in the region.	2 million

Research	Activities	Famileira	Time	Plan	Performance Indicators	Budget
Fields	Activities	Faculties	From	То	(Outcomes)	LE
E-learning, Self- learning, and Distance Education and the Possibility of their Use in Higher Education	Studies on the effect of: Virtual Classroom on effectiveness of learning for university students. E-book and e-learning on the types of thinking and efficacy of learning in undergraduate students. World Wide Web on achievement and development of reading skills optics for university student. Distance education on the development of university student achievement of educational material. The use of modern teaching methods and programs for e-learning, self-learning, and distance education to develop kinds of thinking in various stages of education. An evaluative study of obstacles to the application of e-learning in the Egyptian environment. Study of the effectiveness of learning by mobile phone in the development of student achievement and motivation. Applying credit-hour system. Educational structure and flexibility of input and efficiency of graduates. The role of education in helping graduate students in the acquisition of the various concepts.	Faculties of Education. Engineer- ing, Computers and Informa- tics and Science		2023	The use of e-learning programs, self-learning and distance education at university. High levels of student achievement by not less than 10% annually. High levels of student motivation towards learning by not less than 10% annually. The satisfaction of not less than 70% of the recipients of the programs. Mechanisms for observation and evaluation, and plans for the continuity of programs for e-learning, self-learning, and distance education. Mechanisms for registration, communication, and follow-up with graduate students. Increase in the enrollment rate of graduates in labor market domestically and internationally by not less than 5% annually.	2 million

Research	Activities	Faculties	Time	Plan	Performance Indicators	Budget
Fields	Activities	Faculties	From	То	(Outcomes)	LE
Contempor ary Issues and Problems of Education	A study on school building and possible educational activities. Studies on tutoring. Dropout and absenteeism in the Egyptian schools. School discipline and school concept of punishment. The phenomenon of mass cheating. Studies on school violence: its factors and impacts.	Faculties of Education, Arts and Humani- ties, and Medicine		2018	The existence of detailed studies on the problems of education and their relationship with the changes and practices prevailing in the society and educational institutions. The existence of an operational plan and mechanisms for follow-up and evaluation of solutions proposed to the problems of education. The satisfaction of not less than 70% of the beneficiaries of the solutions.	200000
Citizenship and the Role of Educational Programs and Curricula in its Development	The impact of proposed programs in the development of the concept of: Citizenship among students in different grades. Civic education among students in different grades. The role of human development for students, teachers and staff members.	Faculties of Education, Arts and Humani- ties, and Medicine		2019	The existence of detailed studies of the concept of citizenship and changes in the behavior of students in dealing with community problems. Success of no less than 70% of the participants in the sessions of the Human Development in evaluation tests. The satisfaction of not less than 70% of the recipients of the programs.	200000

Research	Activities	Faculties	Time	Plan	Performance Indicators	Budget
Fields	Activities	Faculties	From	То	(Outcomes)	LE
Literacy and Adult Education	Developing a national plan for the elimination of illiteracy and Functional illiteracy in Sinai, in the light of previous efforts and international experiences. Illiteracy and national issues - a futuristic view/prospective. Overpopulation, dropping out of education, and obstacles to the fight against illiteracy. Sustainable human development for those whom engaged in adult education programs. Mechanisms for accountability and selfevaluation within the framework of the decentralization of adult education programs. An approach to a practical system in facing illiteracy to challenge its constraints. Female illiteracy in the province of North Sinai and its factors.	Faculties of Education and Arts and Humanities	2014	2023	The existence of an operational plan and mechanisms for follow-up and evaluation of adult education and eradication of illiteracy in Sinai. The satisfaction of not less than 70% of the beneficiaries of the plan's implementation Low rate of illiteracy in Sinai by not less than 5% annually. An increase in the rate of successful adult education programs by not less than 70% of participants. The use of applied research published locally by at least 10% annually.	2 million

Research	Application	Encolei co	Time	Plan	Performance Indicators	Budget
Fields	Activities	Faculties	From	То	(Outcomes)	LE
Child Development and Kindergartens	The study of growth stages and their problems. Growth characteristics in childhood. Goals, programs, courses, and activities of kindergarten stage and their importance in the light of comprehensive quality standards. Modern approaches of teaching children at kindergarten. The problems of kindergarten and raising children. Story standards for different age levels at kindergarten and primary education. Evaluation of kindergarten Educational Performance in Egypt. Sexual deviations in adolescence. The study of the causes and treatment of juvenile delinquency.	Faculties of Education, Arts and Humani- ties and Medicine	2013	2018	Detailed studies about the reality and the problems of kindergarten and events in the region. An operational plan in addition to follow-up and evaluation mechanisms for kindergarten programs and events in the region. The satisfaction of not less than 70% of program beneficiaries. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the publication rate of scientific research in journals classified globally by at least 10% annually. An increase in the rate of using applied research published at the local level by at least 10% annually.	1 million

Research	Activities	Faculties	Time	Plan	Performance Indicators	Budget
Fields	Activities	rucuities	From	То	(Outcomes)	LE
Talent and Mental Excellence	The development of diagnostic tools as well as psychological and educational measures for detecting talents. Studying the personal traits of the gifted and innovators. Preparing standardized educational programs for developing the talents. Preparing students to work in the field of 'talent and mental excellence' in general education schools, centers for gifted and talented individuals, and special education institutions and taking advantage of the programs used in developing and developed countries.	Faculties of Education, Arts and Humani- ties and Medicine	2018	2023	Developing mechanisms and measures to detect talents. Programs for the development of talents and innovations. Applying modern educational programs for the development of talented people. An increase in the number of talented recruits for programs by not less than 10% annually. The satisfaction of not less than 70% of the beneficiaries of the programs.	1 million

Research	Activities	Faculties	Time	Plan	Performance Indicators	Budget
Fields	Activities	racuities	From	То	(Outcomes)	LE
Special Categories and How to Deal with them	The study of reality and the problems faced by the following categories: Slow learners. Cognitive or mental impairment and its categories. Blind and visually impaired persons. Deaf and hearing impaired persons. Autism. The elderly. The infirm, the handicapped and the disabled. Developing educational programs and services needed to deal with the previous categories. Preparing cadres as well as spatial and processing supplies for the work environment. Training teachers and staff working in the field of disability in special education institutes and developing the methods and approaches used. Raising awareness of the needs of special groups and developing the role of communities and civil society to integrate them into society.	Faculties of Education, Arts and Humani- ties and Medicine	2014	2023	 Organizing conferences, training courses, workshops and scientific visits in the field of special education at an increasing rate of 20% annually. Not less than 70% of the workers in the areas of special categories passing courses successfully. An increase in the rate of applying programs developed to deal with special categories by at least 10% annually of the institutes for special categories in the region. The satisfaction of not less than 70% of the beneficiaries of the programs. An increase in the rate of providing scientific and educational consultancy and the cooperation with the social institutions that deal with people with special needs by not less than 10% annually. 	2 million

Research	Activities	Faculties	Time	Plan	Performance Indicators	Budget
Fields	Activities	racuities	From	То	(Outcomes)	LE
Psychopath - ology and Therapeutic Psychology	Studying the use of psychotherapy for people with special needs. Studying behavioral deviations for people with special needs - students in pre-university education - students in university education. Designing standards for behavioral deviations. Studying the relationship between behavioral deviations and family education. Studying the relationship between behavioral deviations and some personal deviations and social variables. Examining the role of psychological and educational awareness in the treatment of behavioral deviations. Types of psychotherapy, and its effects on different age groups. The impact of group therapy to resolve some psychological problems. Drug and alcohol abuse and addiction.	Faculties of Education. Arts and Humani- ties and Medicine	2014	2023	Evaluative studies on behavioral abnormalities in the region. An increase in the rate of satisfaction of the beneficiaries of psychotherapy for people with special needs by not less than 70%. A decrease in the rate of behavioral deviations in the region by 5% annually. A decrease in the rate of drug addiction in the region by 5% annually.	2 million
Social Psychology and Psychologica and Social Phenomena	Studies on problems of street children. Studies on children at orphanages. Studies on the types of the group and its dynamics, structures, functions, and objectives. Studies on social realization, and social roles.	Faculties of Education, Arts and Humani- ties and Medicine	2015	2020	Evaluative studies on the problems of street and orphanage children. Crime rate in the region declines by at least 5% per annually. An increase in the rate of applying applied research published at the local level by at least 10% annually.	500000

Research	4-41-141	Flat	Time	Plan	Performance Indicators	Budget
Fields	Activities	Faculties	From	То	(Outcomes)	LE
Accountingin the Institutions of the Region	Financial Accounting Analyzing and developing Egyptian and international accounting standards and their applications. Accounting for intellectual capital. Accounting for social and environmental activities. Cost Accounting Accounting for resource consumption and renewable energy. Accounting for the costs of human resources. Adjusting and reducing environmental costs. Planning and controlling the costs of governmental activity. Management Accounting Strategic planning for the costs in the industrial sector. Management accounting in infrastructure projects. Electronic planning budget. Evaluating and developing accounting systems: Electronic accounting. The development of electronic accounting information systems. Accounting systems for human rights.	Faculty of Commerce. and University Faculties	2013	2023	Lists and financial reports on studies of financial and management accounting and cost accounting. An assessment of the programs for the development of accounting systems. The satisfaction of not less than 70% of the beneficiaries of the developed programs. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the publication rate of scientific research in journals classified globally by at least 10% annually.	500000

Research	Activities	Faculties	Time	Plan	Performance Indicators	Budget
Fields	Activities	racuities	From	То	(Outcomes)	LE
Auditing Institutions in the Region	Reviewing reports of sustainable development. Reviewing Non-governmental organizations (NGOs) and political parties. Reviewing pharmaceutical manufacturing facilities and pharmaceutical activity.	Faculty of Commerce, and University Faculties	2013	2023	The satisfaction of not less than 70% of the beneficiaries of the audit reports in the institutions of the region. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the publication rate of scientific research in journals classified globally by at least 10% annually.	100000
Financial Management in the Institutions of the Region	Studying dividend policies. Studying of behavioral finance. Studying the efficiency of the Stock market. Studying the determinants of funding structure. Studying the policies of working capital funding.	Faculty of Commerce, and University Faculties	2013	2023	Rationalization of making financial decisions by at least 5% annually. The satisfaction of not less than 70% of the beneficiaries of financial management. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the publication rate of scientific research in journals classified globally by at least 10% annually.	100000

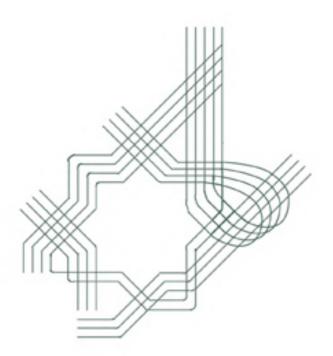
Research	Activities	Famileine	Faculties Time Plan		Performance Indicators	Budget
Fields	Activities	racuities	From	То	(Outcomes)	LE
Developing Human Performance and Organizatio- nal Behavior in the Institutions of the Region	Analyzing and developing the systems of personnel analysis and selection and leadership training and development. Innovation in the design and evaluation of jobs. Human Resource Management in multinational companies. Influencing organizational citizenship behaviors. Modern methods to face the pressures of work. Improving and developing motivation systems. Planning and monitoring the behavior of individuals in government organizations.	Faculty of Commerce, and University Faculties	2013	2023	An increase in the application rate of systems developed in the selection of personnel, human resources management, and leaders' selection by not less than 5% annually. Personnel, working in institutions applying programs of training and developing the leaders and individuals, should pass by not less than 70%. The satisfaction of not less than 70% of the beneficiaries of the developed programs. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the publication rate of scientific research in journals classified globally by at least 10% annually.	250000

Research	Activities	Faculties	Time	Plan	Performance Indicators	Budget
Fields	Activities	rucuities	From	То	(Outcomes)	LE
Production Manageme- nt in the Institutions of the Region	Strategic planning for the development of production systems. Production systems based on computer technology. The use of production in time to improve productivity. Developing production systems and policies.	Faculty of Commerce, and University Faculties	2013	2023	An increase in the rate of institutions applying developed systems and policies of production by not less than 5% annually. The satisfaction of not less than 70% of the beneficiaries of the production systems. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the publication rate of scientific research in journals classified globally by at least 10% annually.	250000
Marketing in the Institutions of the Region	Studying Balanced Scorecard and its role in improving customer service. Marketing in non-profit organizations. E-marketing for government services. Marketing strategies to enter international markets.	Faculty of Commerce, and University Faculties	2013	2023	Improving the international competitive level at a rate of at least 5% annually in the institutions of the region. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the publication rate of scientific research in journals classified globally by at least 10% annually.	250000

Research			Time	Plan	Performance Indicators	Budget
Fields	Activities	Faculties	From	То	(Outcomes)	LE
Local Administration in the Governorates of the Suez Canal Region and Sinai	Studying the application of the principles of the new local administration on the government sector employees in the province of Ismailia. An Empirical Study of the bureaucracy in the local administration in the governorates of the region. The effect of using e-government in developing the performance of the local administration in the governorates of the region. An Empirical Study of political control on the works of local units in the governorates of the region. A field study in the Governorate of Ismailia on the effect of delegating the powers of the President of the Republic to the governors on the administration in local units. An Empirical Study on the relationship between the central authorities and the local administration units in the governorates of the region. A field study on the impact of electronic news sites in shaping the attitudes of Suez Canal University students towards political issues.	Faculty of Commerce, and University Faculties	2013	2023	An increase in the application rate of programs in local administrations in the region by at least 10% annually. The satisfaction of not less than 70% of the beneficiaries of the application of the new systems. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of using applied research published at the local level by at least 10% annually.	500000

Research	Activities	Faculties	Time	Plan	Performance Indicators	Budget
Fields	Activities	racuities	From	То	(Outcomes)	LE
Political and Community Development for the Suez Canal Region and Sinai	A field study by students of Suez Canal University on: The contributions of student activity groups on political development. Political awareness and its impact on political life. Activation of community participation in light of societal changes. The application of democratic transition and the trend towards decentralization in the region. A study of the concept of citizenship and political and social development in the region. The application of decentralization in the region and its impact on fighting corruption. An Empirical Study on the role of public institutions in the region in eliminating poverty. Studying the political and economic effects of the Technology Valley project.	Faculty of Commerce, and Arts and Humanities	2013	2023	Having reports on the results and recommendations of field and applied studies. The satisfaction of not less than 70% of the beneficiaries of applying the political and community development programs. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually.	1 million

Research	A callulator	Familia	Time	Plan	Performance Indicators	Budget
Fields	Activities	Faculties	From	То	(Outcomes)	LE
The Strategic Dimension of the Suez Canal and its Impact on the Egyptian Foreign Policy	A field study on linking local organizations in the region of the canal and Sinai to corresponding global organizations. An Empirical Study on the speed of meeting the local needs of facilities in the Canal region and Sinai. The application of the role of electronic public administration and local administration in improving public services in the Canal region and Sinai. An analytical study on the political and societal effects of developing the Suez Canal. A field study on the fears and aspirations concerning the development of the Suez Canal. The effect of using nanotechnology on the international relations in light of the new world order, as related to the Canal region and Sinai.	Faculty of Commer- ce, and Science	2013	2023	Having reports on the results and recommendations of field and applied studies. The satisfaction of not less than 70% of the beneficiaries of the findings and recommendations of the studies. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually.	500000



The Executive Plan 2013-2023

Second Topic

Protection, Preservation and Development of Natural Resources in Suez Canal Region and Sinai (NR)

- Protecting Instinct Life and Biodiversity (NR1)
- Epidemics, Environmental Pollution and Climate Changes (NR2)
- Rational Utilization of Natural Resources (NR3)
- Drug Manufacturing from Natural Resources (NR4)
- Preservation and Development of Water Resources (NR5)
- Food Resources, Production and Safety (NR6)
- New and Renewable Energy (NR7)
- Biotechnology and Genetic Engineering (NR8)

• Protecting Instinct Life and Biodiversity (NR1)

Research	Activities	Faculties	Time	Plan	Performance Indicators	Budget LE
Fields		Tucanties	From	To	(Outcomes)	
Protection and Developme- nt of Vegetation and Flora in the Suez Canal Region and Sinai	Description of the current vegetation status and the types of existing species of plants and their distribution. Studying vegetation and environmental factors that control the distribution of plants in different environments that have not been studied before in the Suez Canal region and Sinai. Identification of weeds. Addressing taxonomic problems and comparing Egyptian flora with others. Bio-conservation and protection of biodiversity of different environments.	Faculties of Science and Agricult- ure	2013	2023	Development of a map and a database describing flora of the Suez Canal and Sinai region. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by at least 10% annually.	500000
Diversity and Protection of Fauna in the Suez Canal Region and Sinai	Integrated database establishment of distribution and classification of animal species in the Suez Canal and Sinai region. Monitoring and recording locations of poisonous species. Monitoring and recording locations of endangered species. Studying of the interactions among organisms and their effect on the surrounding environment. Estimation of the impact of human intervention on animal diversity. Bio-conservation and protection of biodiversity for different animal environments.	Faculties of Science, Agricult- ure and Veterina- ry Medicine	2013	2023	Development of a map and a database describing fauna of the Suez Canal and Sinai region. Establishment of accurate maps for the distribution of endangered species and poisonous species. Announcement of new natural protectorate in which endangered species lives. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by at least 10% annually.	500000

Research Fields	Activities	Faculties	Time	Plan	Performance Indicators	Budget
		rucuntato	From	To	(Outcomes)	LE
Protection of Marine Communiti- es of Suez Canal Region and the Red and Mediterran- ean Seas	Integrated database describing the distribution and classification of communities of creating a sea water plants and animals in the marine environments of the Suez Canal, Red Sea and the Mediterranean Sea. Study of fish communities in Mediterranean and Red Seas. Study of ocean current dynamics in the Gulf of Suez and Aqaba and their impact on the migration of marine life. Study of coral reef communities in the Gulf of Aqaba and the Red Sea. A study of the effects of marine fouling on Suez Canal and the Red Sea. Study of plankton in the Suez Canal and associated lakes, the Red Sea and the Gulf of Aqaba and Suez. Study of the revival of communities in bottom sediments and rock bottoms. Study of marine algae in Suez Canal and Red Sea. Bio-diversity and dynamic communities of seaweed and phytoplankton. Assess the impact of human intervention on bio-diversity in the marine environment. A Study ways to protect invertebrates, coral reefs and marine fish.	Faculties of Science and Veterina- ry Medicine	2013	2023	Creation of accurate maps and database for the distribution of marine organisms in Suez Canal and Red and Mediterranean Seas. Creation of new marine nature reserves in high-risk areas. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by at least 10% annually.	25000

Research	Activities	Faculties	Time	Plan	Performance Indicators	Budget
Fields	1.201111111		From	To	(Outcomes)	LE
Physical, Chemical and Geological Properties	Examination of physical factors and basic chemical elements of sea water and the seasonal changes in the Bitter Lakes and the Gulfs of Suez and Aqaba. Studying geological phenomena, marine expansions and fossil areas in Red and Mediterranean Seas. A study of geological hazards on the marine eco-region of Suez Canal region and the coast of the Red and Mediterranean Seas.	Faculties of Science and Engineer- ing	2013	2018	Creation of of databases on the physical, chemical and geological properties of the Suez Canal region and Sinai. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by at least 10% annually.	250000
Conservati- on and Developme- nt of Wild life and Nature Reserves	Documenting instinct life persist in nature reserves in the region. Studying ways to protect and develop instinct life in the area. Study of the reasons leading to extinction and methods of prevention. Increasing the numbers of endangered species and the developing & adopting methods to protect them.	Faculties of Science and Veterina- ry Medicine	2016	2023	Creation of a database of species inhabiting natural reserves in the Canal region and Sinai. The establishment of new reserves in areas that contain species vulnerable to extinction. Decreasing the rate of extinction of wildlife by not less than 5% annually.	100000

Epidemics, Environmental Pollution and Climate Changes (NR2)

Research	Activities	Faculties	Time I	Plan	Outcomes	Budget
Fields	Activities	rucuities	From	То	Outcomes	LE
Reduction of the Risk of Desertific- ation and Flooding	Stopping sand dune encroachment on Al-Salam Canal and cultivated areas in the Suez Canal region and Sinai. Accurate detection of flood paths and how to protect and make use of them. A study of the impact of floods in Sinai on land deposits and existing plants.	Facultie s of Science and Agricul- ture	2013	2018	Decreasing the desertification rate by at least 5% annually. The existence of clear mechanisms to exploit flood waters. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by at least 10% annually.	250000
The Study of Biological Phenome- na and Problem	Identification of biological phenomena and problems in the Canal region and Sinai. Examining the impact of biological phenomena on the surrounding environmental phenomena. Conducting biological, chemical and physical analyses needed to determine the effects of biological phenomena. Studies on the prevention of biological problems. Development of appropriate solutions to fix the problems and their application in the region.	Faculties of Science and Agricul- ture	2013	2015	The existence of a detailed study on the impact of biological phenomena and methods of prevention. The existence of the plan and mechanisms for the implementation, monitoring and evaluation of treatment of problems caused by phenomena. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by at least 10% annually.	150000

Research	Activities	Faculties	Time I	Man	Outcomes	Budget
Fields	Activities	Faculties	From	To	Outcomes	LE
Radioactive Contamin - ation in the Suez Canal Region	and the second second second	Faculties of Science, Agricultu- re, Medicine and Veterinary Medicine	2014	2019	A map detailing radioactivity in the canal and Sinai. The existence of mechanisms and methods for prevention and reduction of radiation in the canal and Sinai. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by at least 10% annually.	1 millio
Manipula- tion of Air Pollution	Sample collection & identification of sources of air pollution. Preparation and chemical and physical characterization of catalytic systems with super activity. A Study of the interactions of catalytic systems with air pollutants. The impact of air pollution on the biological species and the consequent biological disasters. Study of environmental pollution caused by mining and quarrying in Sinai. Use of different treatment methods for air pollutants. Chemical and physical characterization after treatment.	Faculties of Science, Agriculture, Medicine and Veterinary Medicine	2014	2023	Success in treating air pollution & reduction in pollutants by not less than 70%. Air pollution decreases at rates not less than 7% annually. The existence of a crisis management plan of air pollution in the region. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by at least 10% annually.	40000

Research	Activities	Faculties	Time Plan		Outcomes	Budget
Fields	Activities	Faculties	From	To	Outcomes	LE
Evaluation and Treatment of Drinking Water and Sanitation Types	Identification of the types of water pollutants in the Canal region and Sinai Studying the signs of pollution through the different hydro geological environments. Studying algae as signs of contamination of water sources in the region. The use of algae to reduce the risk of heavy metal and radiological contamination and environmental toxins. The use of bacteria in the purification and treatment of drinking water and sanitation. The use of non-edible plants to address the contamination of sewage and industrial and agricultural waters contaminated with heavy elements. Analysis of bacterial counts in water samples in measuring the efficiency of water treatment systems. The use of different treatment methods to get rid of persistent organic and inorganic water pollutants. Conduct chemical and physical characterization of water samples after treatment.	Faculties of Science, Pharmacy, Agricultu- re, Medicine and Veterinary Medicine	2014	2023	 An increase in the quality of drinking water according to international standards. Development of mechanisms for all types of wastewater treatment and their application at a rate not less than 5% annually. The existence of a crisis management plan of air pollution in the region. An increase in the rate of granting the Masters and PhD in the field by not less than 10% annually. An increase in the rate of published scientific research in journals classified globally by at least 20% annually. 	40000

Marine Pollution and its Impact on Marine environments in the Suez Canal area. • A study of pollution due to oil and its derivatives and its impact on the revival of the bottom and coral reef communities, fish and fisheries in the Red Sea. • Conducting a variety of environmental studies to measure the levels of industrial and agricultural pollution and sewage in the aquatic environment. • A Study of organic pollution and sewage in the aquation and sewage in the and sources of pollution of the causes and its impact on marine environmental studies to measure the levels of industrial and agricultural pollutants and sewage in the aquatic environment. • A Study of organic pollution and sewage in the
Pollution and sources of pollution of the waters of the Red Sea and the Suez Canal. Marine A Study of metal pollution and its impact on marine environments in the Suez Canal area. A study of pollution due to oil and its derivatives and its impact on the revival of the bottom and coral reef communities, fish and fisheries in the Red Sea. Conducting a variety of environmental studies to measure the levels of industrial and agricultural pollution and sewage in the aquatic environment. A Study of organic pollution and sewage in the
Bitter Lakes (Al-Buhayrat Al- Murra) and Timsah Lake and its impact on marine life communities. • Development of a database of marine pollutant levels in the Canal region and Sinai. • Conducting chemical and physical measurements of the marine environments in the region and its relationship with environmental variables.

Research	Activities	Faculties	Time	Plan	0	Budget
Fields	Activities	Faculties	From	To	Outcomes	LE
Reduction and Treatment of Soil Contamin- ation	Identification of the causes and sources of contamination of agricultural soil and desert sand. Environmental Impact Assessment (EIA) of the cultivation of forest trees on wastewater. Chemical and physical characterization of contaminated samples. Studying the use of different treatment methods. Chemical and physical characterization of materials used for treatment.	Faculties of Science and Agricul- ture	2013	2023	A decline in soil contamination at rates not less than 7% annually. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by at least 10% annually.	400000
Climatic and Environm- ental Changes and their Effects on Plants and Productivi- ty of Agricultu- ral Crops	Impact of environmental pollution on vegetation. The causes and sources of contamination of crops and agricultural products. Study of the impact of climatic and environmental changes on the metabolic processes of plants and the growth of crops. A study of plant fungal, viral and bacterial diseases and organisms responsible for the injury and methods of treatment. The impact of sludge and chemical fertilizers and internal Mycorrhizal Fungi on the growth of mahogany seedlings under sandy soil conditions. The effect of mineral fertilization on the growth and chemical content of some wooden tree seedlings in salt and sand lands.	Faculties of Science and Agricul- ture	2013	2013	A decrease in the rates of contamination of agricultural crops by not less than 7% annually. The satisfaction of not less than 70% of the end users of agricultural crops. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by at least 10% annually.	500000

Research	Activities	Encoleton	Time Plan		0	Budge
Fields	Activities	Faculties	From	To	Outcomes	LE
The mpact of environm- mutal Factors and collutants- on Animals	Effects of different of environmental pollution on wildlife. Study of the impact of external factors on the performance of biological activities quantitatively and qualitatively. Environmental factors and their impact on the efficiency of the biological clock in animals. Assessment of the impact of pollution on the physiology, building and immunity of organs in animals. Study of the effect of environmental factors and pollutants on the spread of various diseases in animals. The role of biological contaminants in fish diseases in the Canal region and Sinai. Environmental risk assessment for new facilities and their impact on public health.	Faculties of Science, Veterinary Medicine, and Agriculture	2013	2023	Creation of a database on the types and the impact of pollutants on the health of different animals in the region. Decline in the rate of infected animals as a result of pollution by not less than 7% annually. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by at least 10% annually.	50000

Research	Activities	Foculties	Time	Plan	0	Budget
Fields	Activities	Faculties	From	To	Outcomes	LE
Health Problems and Causes of Diseases in Fisheries in the Suez Canal Region and Sinai	Assessment of the effects of the following on local fish: Pathogenic bacteria. Viral diseases. Pathogenic fungi. Isopoda in fish. Diseases of freshwater fish and fish in marine fisheries. Internal and external parasites in freshwater and marine fisheries. The impact of vaccines and feed additives inducing immunity in the prevention of fish diseases. Studies of treatment methods for fish. Clinical pathological studies on the impact of infected fish on the structure and functions of the organs in experimental animals.	Faculties of Science, Veterinary Medicine, and Agriculture	2014	2023	 An inventory of causes of bacterial and fungal, viral and the parasitic diseases in fish in the Canal region and Sinai. A decrease in the rates of fish morbidity by at least 10% annually. The satisfaction of not less than 70% of the beneficiaries of Fisheries. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually. 	400000
Health Problems and Causes of Avian Diseases in the Suez Canal Region and Sinai	Study of the prevalence of parasitic infections in wild birds. Studies on viral and bacterial diseases in ornamental birds. Studies on Salmonella infection in some bird species in the region. Bacteriological and molecular studies on diseases affecting poultry and ducks. Differences and genetic variability between bacterial strains. Studies on infecting respiratory viral diseases that infect chickens. The impact of protein diet on the health of broiler chickens.	Faculties of Science, Veterinary Medicine, and Agriculture	2014	2023	 An inventory of causes of bacterial fungal, viral and parasitic diseases in birds in the Canal region and Sinai. A decrease in the rates of bird morbidity by at least 10% annually. The satisfaction of not less than 70% of the beneficiaries of poultry and birds. An increase in the number of awarded Masters and PhD, degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually. 	400000

Research	Activities	Foculties	Time I	Man	Q-1	Budget
Fields	Activities	Faculties	From	To	Outcomes	LE
Health Problems and Causes of Diseases of Livestock and Animal Products in the Suez Canal Region and Sinai	Identification of the bacterial flora of strains of cattle and their effects on human health. Isolation, diagnosis and classification of bacterial pathogens in broiler chickens. Pathological effects of some herbaceous plants, acidifiers and probiotics on broiler chickens. Pharmacological effects of some feed additives on animal health. Respiratory infections in newborn calves. Molecular classification of bacteria isolated from meat and dairy products Description of pathogens isolated from foods of animal origin. Study of infection-causing bacteria in domestic animals and their relationship to human health. Advanced studies on insect-borne diseases among animals in the region. Clinical pathological studies on diseases present in both animals and humans. A comprehensive survey of the parasites infecting stray and domestic animals in the region.	Faculties of Science, Medicine, Pharmacy. Veterinary Medicine, and Agriculture	2014	2023	An inventory of causes of bacterial fungal, viral and parasitic diseases in livestock in the Canal region and Sinai A decrease in the rates of livestock diseases by not less than 10% annually. The existence and success of the application of new technologies for the treatment of animal diseases at rates not less than 7% annually. The satisfaction of not less than 70% of the beneficiaries of the livestock. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	1 millio

• Rational Utilization of Natural Resources (NR3)

Research			Time	Plan	2	Budget
Fields	Activities	Faculties	From	То	Outcomes	LE
Taking Advantage of the Resources of the Marine Environment	Study of seaweed and phytoplankton and estimation of the active substances for use in the fields of nutrition, agriculture and pharmacy. Monitoring of invertebrate species and extracting effective biological materials available in the Canal, the Red Sea, Gulf of Suez, and Aqaba. The use of materials derived from marine resources in the production of medical drugs and their development to become economically feasible. The use of biotechnological techniques in various marine applications.	Faculties of Medicine, Pharmacy, Agriculture, and Science	2014	2023	Extraction of at least 2 natural compounds from marine sources that can be used in biological resistance. Extraction of at least 5 natural compounds from marine sources exhibiting pharmacological effect. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	1 million

Research			Time	Plan		Budge
Fields	Activities	Faculties	From	То	Outcomes	LE
Fisheries and Fishery Technology	Study of fisheries technology including types of nets, their efficiency and impact on fisheries and crustaceans. Study of fisheries management strategies in Sinai and the Red Sea. Study of dynamics of fish communities and clans in the Suez Canal and associated lakes, the Gulf of Suez, the Gulf of Aqaba, the Red and the Mediterranean Seas. Study of growth and reproduction rates of the community of juvenile marine fish in the Red and the Mediterranean seas. Search to increase fish stocks in Bardawil Lake and the eastern Mediterranean. Development of water bodies in Sinai.	Faculties of Veterinary Medicine, Agriculture, and Science	2013	2023	The existence of a database and accurate maps for fisheries in the area of the Canal and Sinai. Contributing to the increase of fish stocks in the region by at least 5% annually. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	1 millio

Research	Activities	Faculties	Time Plan		0-1	Budget
Fields	Activities	Faculties	From	To	Outcomes	LE
Increase in the Productivity of Ornamental, Oil- producing, and Aromatic Plants	A comprehensive survey of ornamental, oil-producing, and aromatic plants in the Canal region and Sinai. Careful laboratory breeding and cultivation of plants of the risk of extinction. Study of the effect of agricultural treatments on the productivity of those plants. Genetic finger printing volatile oil-producing and aromatic plants in Sinai. Study of methods to maintain the vitality of economic desert plant seeds for extended periods. Extraction of compounds with therapeutic and economic value from oil-producing, and aromatic plants available in the region. Extraction of compounds that play a role in the biological resistance of oil-producing and aromatic plants.	Faculties of Pharmacy, Agriculture, and Science	2013	2023	The existence of a database describing ornamental, oil-producing, and aromatic plants in the Canal region and Sinai. The success of laboratory cultivation of at least 2 each of ornamental, oil-producing, and aromatic plants prone to extinction. Increase in the productivity in the area of ornamental, oil-producing, and aromatic plants at a rate of at least 5% annually. Production of at least two compounds resistant to pests, insects and pathogens. Production of at least two compounds of high economic value in the manufacture of perfumes, oils, detergents, and paints. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	1 millior

Research	A sale ded		Time	Plan	2	Budget
Fields	Activities	Faculties	From	То	Outcomes	LE
tilization of atural oxins	Assessment of the toxic effects of organisms of marine, plant, animal, bacterial and fungal origin in the region. Extraction of toxins and natural compounds of biological and medical importance from poisonous organisms. Studying the composition and properties of the compounds extracted. The use of molecular biology to modify the properties the compounds extracted. Studying the production of compounds similar to natural compounds with biological feasibility. Natural toxins and biological control.	Faculties of Pharmacy, Veterinary Medicine, Medicine, Science and Agriculture	2013	2023	Contribute to the production of at least two compounds resistant to pests, insects and pathogens. Contribute to the production of at least two compounds used for economic or biological uses. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	2 millio

Research	s at tales		Time	Plan		Budget
Fields	Activities	Faculties	From	То	Outcomes	LE
Development of Methods and Materials Used in Environment- al, Biological and Industrial Applications	Manufacturing of chemical Sensors for various environmental and biological applications (estimation of amounts of pesticides and DNA in biological and environmental samples). Protection of metals and alloys from corrosion and improvement of their Physiochemical properties: Using electroplating. The preparation and use of plastic materials and polymers resistant to metal corrosion. Preparation of rust-resistant materials for industrial purposes in simple and inexpensive ways. Preparation and use of petroleum combinations with various industrial applications. Preparation of nanometer materials that are used for industrial, medical and scientific applications.	Faculty of Science, Pharmacy and Agriculture	2013	2018	Contribute to the production of at least 6 compounds that have biological, environmental and industrial applications. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	2 million

Research			Time	Plan		Budget
Fields	Activities	Faculties	From	To	Outcomes	LE
Development of Mineral Resources of Industrial and Economic Values	Scanning to detect distinct sources of minerals in the canal and Sinai using modern technological means. Analysis of samples of minerals extracted chemically and physically. Study of the development of quarries and mines and the completion of infrastructure and mining. Land-use planning and the development of natural resources in the canal and Sinai. Study of basement rocks in the area of the canal and Sinai.	Faculties of Engineering and Science	2013	2023	The presence of a geographic database of mineral resources and basement rocks in the Canal region and Sinai. Contribute to increasing the productivity of mining ores by 10% by the end of the plan. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	2 millior
Detection of New Oil Sources	Survey of the Suez Canal and Sinai using modern technological means to detect the areas of crude oil and natural gas. Analysis of oil samples extracted chemically and physically. The use of geophysical methods and the interpretation and analysis of wells recordings. Measuring and interpreting the petrophysical properties of mold segments. Separation of minute fossils. Geochemical analysis of organic material in rocks.	Faculties of Engineering and Science	2013	2023	A database of all geographic regions of crude oil, natural gas and microfossils in the Canal region and Sinai. The existence of a database on the composition and properties of oil extracted. Contributing to the increase of oil production from the region by at least 15% by the end of the plan. Contribute to increase the production of gas discovered in the region by at least 15% by the end of the plan. Contribute to the plan. Contribute to the achievement of optimum utilization of mineral resources and energy sources detected.	3 million

Drug Manufacturing from Natural Resources (NR4)

Research			Time	Plan		Budget
Fields	Activities	Faculties	From	То	Outcomes	LE
The Extraction of Natural Pharmaceutic al Products from Environment al Plants in the Suez Canal Region and Sinai	Identifying the plant species used in folk medicine. Listing medical plants found in the Canal region and Sinai. Studying the effect of the agricultural treatment on the productivity of medical plants. Careful laboratory breeding and cultivation of endangered medical plant species in the region. Genetic finger printing of wild medical plants in the Sinai region. Collecting samples of available plants and extracting and separating the natural compounds. Identifying the properties of separated compounds and estimating the ratios of their presence in their natural sources and impact on health. Detailed analyses of compounds with pharmacological activity. Conducting activity tests of the separated compounds to determine the therapeutic field and range. Developing a plan to produce and synthesize active substances in the laboratory and comparing results to materials separated from the natural plant.	Faculties of Pharmacy, Medicine, Agriculture, and Science	2013	2023	Having a database on medical plants and those used in folk medicine in the Suez Canal and Sinai region. Producing at least 5 drugs from plant extracts from the region. The success cultivating at least 2 of the medical plants in the laboratory. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	1 million

Research			Time	Plan		Budget
Fields	Activities	Faculties	From	To	Outcomes	LE
Preparation of Compounds with Biological and Therapeutic Activity from Bacteria and Fungi	Studying the biological activity of bacteria and fungi. Chemical and physical description of inorganic materials prepared in the laboratory. Determining the chemical compositions of the compounds prepared in the laboratory. Preparing and synthesizing some organic compounds with therapeutic applications. Studying how to produce antibiotics from bacteria. Studying the therapeutic effect of secondary metabolites produced by Actinomycetes.	Faculties of Pharmacy. Veterinary Medicine, Medicine, Agriculture, and Science	2013	2015	Contributing to the production of at least 4 antibiotics and therapeutic compounds from bacterial and fungal extracts. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the publication rate of scientific research in journals classified globally by at least 10% annually.	300000
The Extraction of Natural Products From Animals and their Uses and Effects	Collecting samples from wildlife. Examining ways of extracting and isolating the compounds with therapeutic interest. Studying the biological impact of the extracted compounds. Studying the structure of the extracted compounds. Studying the therapeutic effect of extracted compounds. Considering the production of vaccines and therapeutic compounds.	Faculties of Pharmacy, Medicine, Veterinary Medicine, Science, and Agriculture	2013	2023	Contributing to the production of at least two compounds used in the treatment of human and veterinary diseases. Contributing to the production of at least two vaccines for the treatment of poisoning caused by toxic organisms. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	2 million

Research			Time	Plan		Budget
Fields	Activities	Faculties	From	To	Outcomes	LE
Veterinary and Experimental Treatment Using Natural Compounds	Analyzing some veterinary drugs of natural origin, available in the Egyptian market. Evaluating the effectiveness and effects of drugs used in the treatment of diseases of poultry, rabbits and cattle. Studying the antiviral effect of some medical plants on the animals. Studying the effect of anti-fungal toxins on animals and birds. Pharmaceutical studies on some natural anti-parasitic compounds. Studying the liver protective effect of some medical plants on experimental animals. Studying the efficacy of natural materials to lower plasma cholesterol in experimental animals. Pharmacological studies of growth promoters in animals. Studying the impact of some food compounds on the fattening of poultry. Studying the effect of medical herbs on animals and birds fed contaminated diets. Studying the effect of oils on cytogenetics and biochemical analysis in experimental animals. Pharmacological effects of some medical plants on chickens and rabbits and how they affect immunity. Advanced pharmaceutical studies on some feed additives in broilers.	Faculties of Pharmacy, Veterinary Medicine. and Science	2013	2023	Extraction and/or production of not less than 4 natural compounds used for treatment of animal diseases. Declining rates of veterinary diseases by at least 5% annually. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	2 million

Research		Faculties	Time Plan			Budget
Fields	Activities		From	То	Outcomes	LE
The Use of Natural Resources in the Development of Sports	Conducting studies on the exploitation of natural products from plants and animals for the treatment of sports injuries. Preparing studies to optimize the therapeutic uses of the natural sulfur springs for the elderly, the disabled and the injured.	Faculties of Medicine, Physical Education, Pharmacy, Tourism and Hotels and Science	2013	2023	To produce at least 4 compounds from natural sources for the treatment of sports injuries. High cure rate of patients using sulfur water at a rate of at least 5% annually.	500000

Preservation and Development of Water Resources (NR5)

Research			Time	Plan		Budget
Fields	Activities	Faculties	From	То	Outcomes	LE
Management, Development and Protection of Water Sources	Conducting scan sources of drinking water in the Canal region and Sinai. Conducting chemical and physical analyses of water samples. Identifying the vital signs that signify the quality of water. Considering the use of natural means to purify drinking water. Assessing and developing alternative sources of water in Sinai. Assessing industrial and agricultural wastewater and finding ways for treatment.	Faculty of Science and Pharmacy and Agriculture	2013	2015	Creation of a database describing the nature, structure and validity of water bodies used for drinking in the Canal region and Sinai. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of scientific research published in international, highly cited journals by not less than 10% annually.	250000

Research	A 1		Time	Plan	2	Budget
Fields	Activities	Faculties	From	Тө	Outcomes	LÉ
Protection of Water Resources in Suez Canal Region and Sinai from Pollution	Developing scientific standards to measure the level of water pollution in the region. Collecting samples from drinking water sources and measuring ratios of existing contaminants. Identifying the causes and sources of contamination of drinking water and methods of treatment. Sewage treatment and utilization of solid waste. Treatment of agricultural and industrial wastewater and effects on sources of drinking water in the region.	Faculties of Medicine, Veterinary Medicine, and Science	2014	2023	A decline in the rate of contamination of water sources by at least 5% each year and reaching the global proportions by the end of the project. A decline in the rate of infections resulted from contamination of drinking water by at least 5% per annum.	1 million
Providing Water for Irrigation and Aquaculture in the Sucz Canal Region and Sinai	Applications of remote sensing in the areas of land and water in the region. Raising the efficiency of irrigation water use and overcoming the problem of pollution resulted from the excessive use of chemical fertilizers. Assessment of irrigation methods and calculation of water needs for different crops in the region. Assessment of rain-fed agriculture systems in Sinai. Adequacy of sewage for the cultivation of forest trees in the area. Identifying wells used for irrigation and determining their suitability to irrigate crops planted in the region.	Faculties of Science and Agriculture	2015	2023	An increase in rates of cultivated land in the region by at least 5% per annum. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	1 million

Research	A calculation		Time	Plan	2	Budget
Fields	Activities	Faculties	From	To	Outcomes	LE
Detection of New Water Sources in the Canal region and Sinai	Detection of groundwater sources in the Canal region and Sinai. Conducting studies on the desalination of sea water and use it as a source of drinking water. The use of rainwater to irrigate land farmed in the Canal region and Sinai.	Faculties of Engineering, Science, and Agriculture	2015	2023	A decrease about the lack of clean drinking water for citizens in the Canal region and Sinai by end of the project. The satisfaction of not less than 70% of the beneficiaries of the drinking water in different sectors. Contributing to the increase in the agricultural area in the region by 5% annually.	2 million
Water Desalinations	Studies on desalination of sea water to be used as resources of drinking water. Enhancing the RO (Reverses Osmosis) systems for desalination of sea water. Studying the effect of NANO-technology in the field of water desalination. Studying the use of a new folded sheet design in the field of water desalination. Improvements the flash water desalination systems. Studying the use of renewable energies in water desalination systems. Designing water desalination systems. Designing water desalination systems.	Faculties of Engineering and Science	2013	2018	An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually. Implementation of 4 research applications in the field of water desalination. The satisfaction of not less than 70% of the beneficiaries of the water desalination. Decrease the complaint from the lack of fresh water in the region by at least 5% per year.	5 million

Food Resources, Production and Safety (NR6)

Research	A call dates		Time Plan			Budget
Fields	Activities	Faculties	From	To	Outcomes	LE
Animal Feed and Fodder Production	Studies on the addition of some vitamins and minerals to the diet. Studies on the use of some medical herbs in animal feed. Searching to meet the needs of farmers in the region for fodder crops. Considering the production of nontraditional diets from agricultural residues available in the Canal region and Sinai.	Faculties of Veterinary Medicine and Agriculture	2013	2018	Contributing to the production of 4 new types of animal feed. The satisfaction of not less than 70% of the beneficiaries of the animal feed in relation to the new feed. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	25000
Development and Improvement of Livestock Production	Studies on the freezing of embryos and oestrus synchronization and early detection in animals. DNA finger printing estimation of genetic differences and kinship in small ruminants in the Suez Canal and Sinai region. Studying methods for artificial insemination and embryo transfer. Production of improved strains of Shami goats in Rafah and Sheikh Zowaid for enhanced production of milk and meat and to spread male goats among breeders. Production of improved strains of Awassi sheep in Rafah and Sheikh Zowaid for enhanced production of milk and meat and to spread male goats among breeders.	Faculties of Veterinary Medicine and Agriculture	2014	2023	The success of using at least 2 of the technological applications in the development of livestock production in the region. An increase the production rate of Shami goats and Awassi sheep by not less than 5% annually. The satisfaction of not less than 70% of the beneficiaries of livestock production An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	1 million

Research			Time	Plan		Budget
Fields	Activities	Faculties	From	To	Outcomes	LE
Improving the Production of Eggs, Poultry and Rabbits	The use of natural growth promoters (bacteria and yeasts) in poultry feed. Studying the effect of pastoral transactions on the quality of slaughtered hens. Studying dietary factors influencing the content of cholesterol in commercial eggs. The impact of the use of disinfectants on the efficiency of eggs hatching. Studying the genetic and phenotypic parameters associated with productivity traits in poultry. The impact of the levels of some natural food sources on the productive efficiency of rabbits. Evaluating the reproductive performance of rabbits under intensive production system. The use of biotechnology in determining the genetic differences between the types and breeds of rabbits. Identifying methods of production and selection of good breeds that are compatible with the local environment.	Faculties of Veterinary Medicine and Agriculture	2014	2023	An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	1 million

Research			Time	Plan		Budget
Fields	Activities	Faculties	From	To	Outcomes	LE
The Development of Fish Farming in the Canal region and Sinai	Establishing fish farms and producing fish seeds of high economic value. Studying the production of genetically modified fish, resisting the salinity of water. Studying the breeding and spawning of fish beyond their normal breeding seasons. Establishing shrimp farms. Studying the ways to feed young larvae of fish and shrimp. Studying ways to develop and increase protein production in cultured organisms. The production of nonconventional fodder for use in fish feed. Studying food needs of fish and marine crustaceans. Studying the impact of using chemicals, drugs, organic and mineral fertilizers, and feed on the aquatic environment. Studying prevention methods of diseases in cultured organisms and developing methods of treatment. Farming and developing seaweed and phytoplankton.	Faculties of Veterinary Medicine, Science, and Agriculture	2014	2023	Contributing to the supply of necessary seeds to at least 4 specialized centers in fish farming. Availability of fish production at a rate not less than 20% of domestic consumption in the governorates of the region, with increasing production rates by at least 5% per annum. An increase in the rate of shrimp production by not led than 20% of domestic consumption in the governorates of the region, with increasing production rates by at least 5% per annum. The satisfaction of not less than 70% of the beneficiaries of fish production. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	2 million

Research			Time	Plan		Budget
Fields	Activities	Faculties	From	To	Outcomes	LE
Promoting Dairy Industries	Advancement of fermented dairy industries. Identification and isolation of some bacteria from dairy products and their uses. Secure environmental disposal of the residues of dairy industry recycling. The use of some enzymes in the manufacturing of dairy products. The use of some food ingredients with functional qualities in dairy products. Genetic engineering and dairy starters.	Faculties of Veterinary Medicine and Agriculture	2014	2023	Contributing to the increase in the rate of milk production by not less than 10% per annum. The satisfaction of not less than 70% of the beneficiaries of dairy production. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	1 million
The Developme- nt of Food Processing- in the Canal Region and Sinai	Chemical and nutritional assessment of agricultural crops produced by research projects in the Canal region and Sinai. Studying the manufacturing potential of the crops that have emerged in the region. The use of herbs and medical plants from the region as alternative additives to industrial materials. Safety assessment for some genetically modified crops that are suitable for food manufacturing. Introducing new conservation methods of food products. Recycling of the residues of food processing factories and preserving fish in the region.	Faculties of Medicine. Science, Pharmacy, and Agricult- ure	2014	2018	Creation of a database of food products in the region along with their contents and nutritional value. The satisfaction of not less than 70% of the beneficiaries of the modified food products. The successful utilization of not less than two types of factory waste and the crops in the region. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	2 millior

Research	Activities	Faculties	Time	Plan	Outcomes	Budget
Fields	Activities	Faculties	From	To	Outcomes	LE
The Developme- nt of the Honey Bee Industry	Breeding queen bees. Developing the production of types of honey with various nutritional values. The study of diseases and pests that infect honey bees.	Faculties of Science, Veterina- ry Medicine, and Agricult- ure	2013	2023	The satisfaction of not less than 70% of the beneficiaries of honey products. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	500000
Developing and Updating the Agricultural System	Developing modern irrigation systems appropriate for local conditions. Developing ventilation systems in agricultural buildings. The use of modern technology in drying agricultural products and improving their storage. Improving the efficiency of rice mills.	Faculties of Engineering and Agriculture	2013	2018	The satisfaction of not less than 70% of the beneficiaries by implementing new systems of irrigation and agricultural buildings ventilation. An increase in the ability to store agricultural products by at least 5% per annum. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	500000

Research	A		Time	Plan		Budget
Fields	Activities	Faculties	From	To	Outcomes	LE
Breeding and Protection of Field Crops	Promoting the production of field crops (cereals - oily - sugar - fodder). Studies on new methods of irrigation and fertilization to increase the production of field crops. Studying ways of breeding to resist pests, diseases and stress conditions (salinity - drought). Biological control of insect pests affecting field crops in the region. The impact of chloride salts and nitrogen on rotting in roots and fruits of peanuts. The relationship between epidemic diseases and supporting and making decisions in the production of grain crops.	Faculty of Agriculture and Science	2014	2023	Contributing to the increase in the productivity of field crops in the region by at least 5% per annum. The satisfaction of not less than 70% of the beneficiaries of field crops in the region. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	1 million
Increasing the Productivity of Fruit Plants	Developing irrigation systems for olive trees under the conditions of arid and semi-arid areas. The development of horticultural care for fruit trees under the conditions of the Sinai Peninsula. Studies on the propagation of some strains of mango. The response of some breeds of seeded mango to salinity. The impact of insects and mites on mango and citrus. The effect of growth regulators on growth cycles and fruit quality of different types of oranges.	Faculties of Agriculture and Science	2014	2023	Contributing to the increase in the productivity of fruit plants in the region by at least 5% per annum. The satisfaction of not less than 70% of the beneficiaries of fruit plants in the region. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	2 millior

Research	A 1		Time Plan			Budget
Fields	Activities	Faculties	From	То	Outcomes	LE
Increasing the Productivity of Vegetable Plants	Studying factors affecting the growth, productivity, quality standards and nutritional value of vegetable plants, such as the effect of: Plant density and planting seasons of some vegetables. Organic and bio-chemical fertilizers of some vegetables (peas). Nitrogen and micro fertilizers on oil content in Foeniculum vulgare (Fennel) Irrigation treatments on some vegetables Incubation of bacterial boosters in the roots of vegetables to facilitate nitrogen and phosphorus uptake. Bio-stimulants and antistress on high temperature damages to vegetables. Calcium, potassium and antioxidants on the growth and storage of potatoes. Some treatments on the production, storage and drying of the fruits of mushroom. Studies on vaccination and propagation in cucurbits. Organic farming of vegetable plants under the environmental conditions of Sinai. Fungal, bacterial, and viral diseases in vegetable crops.	Faculties of Agriculture and Science	2014	2017	Contributing to the increase in the productivity of vegetables in the region by at least 5% per annum. The satisfaction of not less than 70% of the beneficiaries of vegetable plants in the region. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international. highly cited journals by not less than 10% annually.	2 million

Research			Time	Plan		Budget
Fields	Activities	Faculties	From	To	Outcomes	LE
Production, Farming and Protection of Horticultural Plants	Micro-propagation for asparagus, strawberries, and some horticultural plants. Evaluating of different breeds of broccoli using genetic directories. Molecular and biological studies on specific hybrids in the horticultural plants. Study the resistance of plant classes to salinity or abiotic stresses. The dangers of ground slugs to horticultural plants of economic importance. The impact of insects and mites on horticultural plants. The impact of biocides on some natural enemies associated with insect pests. The impact of climate change on the diversity of arthropods, abundance and status of pests in barren ecosystems.	Faculties of Science and Agriculture	2014	2023	Contributing to the increase in the productivity of horticultural plants in the region by at least 5% per annum. The satisfaction of not less than 70% of the beneficiaries of horticultural plants in the region. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	500000
Filling the Food Gap of Wheat Crop	Studies to hybrids that have the ability to withstand stress conditions of the Sinai region through hybridization using traditional and modern methods.	Faculties of Science and Agriculture	2014	2023	Contributing to the increase in the productivity of wheat in the region by at least 5% per annum. The satisfaction of not less than 70% of the beneficiaries of the wheat crop in the region. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	2 million

Research			Time Plan			Budget
Fields	Activities	Faculties	From	To	Outcomes	LE
Development of Palm Plantations	Propagation through palm seedlings. Studies on modern means to combat red palm weevil. The impact of insects and mites on the palm. Studies on the causes of the deterioration of palm trees and methods of treatment.	Faculties of Science and Agriculture	2015	2023	Increasing in the productivity of palm trees in the region by at least 5% annually. The satisfaction of not less than 70% of the beneficiaries of the palm. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	1 million
Production of Legumes and Soil Fertility	Assessment of the current situation of existing species of legumes cultivated in the region. Collecting samples and conducting. Study of the organisms analyses with the ability to fix Nitrogen and increase the production of pulses and increase soil fertility. Working on a commercial vaccine for leguminous plants and other agricultural crops to increase production in reclaimed land.	Faculties of Engineering. Science and Agriculture	2015	2023	The existence of a database on the current status and types of beans cultivated in the region. Increasing in the productivity of pulses in the region by at least 5% annually. The satisfaction of not less than 70% of the beneficiaries of the output pulses. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	1 million

Research		Time Plan		Plan		Budget
Fields	Activities	Faculties	From	To	Outcomes	LE
The Foundations of Quality and Health of Food of Animal Origin	Study of the physical and chemical properties to evaluate the sensory quality of meat. Quantitative microbial risk assessment in imported cattle slaughterhouses. Dairy evaluation of mastitis cases in some dairy herds in Ismailia. Bio-control of staphylococcus. Assessment of the risk analysis system to identify Hazard Analysis and Critical Control Point (HACCP system) in major stores. Control of some biological and chemical hazards in poultry.	Faculties of Medicine, Science, Veterinary Medicine, and Agriculture	2014	2023	The satisfaction of not less than 70% of the beneficiaries of food of animal origin. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	1 million

New and Renewable Energy (NR7)

Research			Time	Plan	2	Budget
Fields	Activities	Faculties	From	То	Outcomes	LÉ
The Use of Solar Energy	Study of the use of solar energy use in water desalination. Study of greenhouses that are computerized and solar-powered. Study of solar cells manufacture for energy production using new technological methods. Study of modern manufacturing units used in the generation of wind energy. Study of performance of heating systems and solar power production. Study of ways to improve the exploitation of solar energy.	Faculties of Engineering. Agriculture, and Science	2013	2023	Production of solar cells using valuable water desalination and power generation. The presence of homes operated by solar energy. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	2 million
Exploitation of Wind Energy	Studies on manufacturing modern units that use winds for power generation. Analytical study on areas suitable to make wind power generation systems. Developing gearbox and materials used in pneumatic turbine blades. Designing and developing a pneumatic turbine in buildings away from the beach. Development of Turbo Air for low speeds. Develop the use of wind turbines on ships to help pay energy. Develop the use of wind turbines to generate electricity on ship boards.	Faculties of Engineering and Science	2013	2023	An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually. The use of at least four techniques applied in the fields of wind energy.	3.5 million

Research			Time	Plan	_	Budget
Fields	Activities	Faculties	From	To	Outcomes	LE
Taking Advantage of the Underground Energy	Preparation of statistic and technical survey for sites suitable for extracting the underground energy. Designing underground energy production station in sites at Sinai. Studying new methods to produce energy from underground.	Faculties of Engineering and Science	2013	2023	An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually. The use of at least four techniques applied in the fields of underground energy.	2.5 million
Energy Production from Biological Sources	The use of types of bacteria and micro-organisms in producing renewable energy. The production of biofuels from algae. Studying the use of biofuels from locally produced trees (Djitrova). The use of bio-fuels in energy production.	Faculties of Engineering, Agriculture, and Science		2023	An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually. Production of at least 4 types of bio-fuel.	1 million
Clean Energy from Nuclear and Thermal Reactions	Working on solving theoretical equations associated with nuclear energy production. The development of simulation programs for different types of plasmas and the extent of their interaction and vulnerability to electromagnetic waves of different frequencies. Developing solutions and application of the results.	Faculties of Engineering and Science	2013	2018	Registering a new technique for the use of nuclear energy. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	1 million

Research	a - al-dal		Time	Plan		Budget
Fields	Activities	Faculties	From	То	Outcomes	LE
Recycling of Agricultural and Industrial Waste	Identifying sources of industrial and agricultural waste that cause environmental pollution problems. Chemical and physical characterization of the waste. Production of biogas as a new energy from organic waste recycling. The use of new energy technologies in waste recycling for the manufacture of feed and fertilizer. Re-use of waste in the production of building materials and silica	Faculties of Engineer- ing, Agriculture, and Science	2014	2023	The production of at least 4 types of feed and fertilizer of new industrial and agricultural waste. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	2 millio
Devise Ways of Storing Energy	Studying the use of locally produced wax in the field of energy storage. Studying locally produced materials in the field of energy storage. Studying the use of nanoscale materials in the field of energy storage. Studying the improvement of the performance of mechanical and hydraulic systems in the field of energy storage.	Faculties of Engineering and Science	2013	2023	An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually. The use of at least 4 techniques applied in the fields of energy storage.	1.5 million

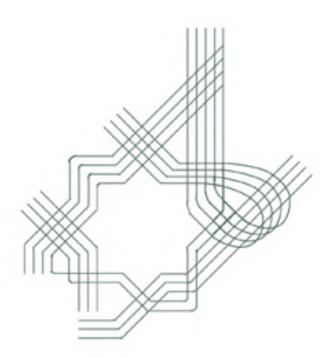
Research			Time	Plan	102000	Budget
Fields	Activities	Faculties	From	То	Outcomes	LE
Studying the Development of Heat Recovery Methods	The development of heat recovery systems in thermal power plants. Studying the heat recovery systems used in industrial areas. Studying the development of heat recovery methods in government facilities. Studying different factors in heat recovery systems and applying them on local systems. Increase efficiency and energy conservation in the marine propulsion plants.	Faculties of Engineering and Science	2013	2023	An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually. The use of at least 4 techniques applied in the areas of heat recovery	3 million
Renewable Energy Applications in Marine Fields	The use of renewable energy systems to assist in the payment of ships. Studying the optimal use of renewable energy in marine propulsion engines. Analysis of the performance of control systems in renewable energy. The use of hydrogen as an alternative fuel and clean operation of ships. The use of modern materials in the construction of ships to reduce fuel consumption.	Faculties of Engineer- ing. Science and Compute- rs Informat- ics	2013	2023	An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually. The use of at least 4 techniques applied on the use of renewable energy in marine fields.	2 million

Research			Time	Plan	_	Budget
Fields	Activities	Faculties	From	To	Outcomes	LE
Continuous Combustion Applications	Studying the economics of the development of natural gas engines. The control and reduction in emissions from marine propulsion plants at the Suez Canal course. Environmental studies for the reduction of pollution resulting from the combustion of all types of fuel. Development and enhancement of the lighter designs of aviation engines and power plants.	Faculties of Engineer- ing. Science and Compute- rs Informat- ics	2013	2023	An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	2 millions
Studying the Heat Exchangers	Studying the use of panels in the production of heat exchangers. Development and improvement of the performance of heat exchangers.	Faculties of Engineer- ing and Science	2013	2023	An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually. Production of at least 2 methods for the production of heat exchanger plates.	1.5 million

Biotechnology and Genetic Engineering (NR8)

Research			Time	Plan		Budget
Fields	Activities	Faculties	From	To	Outcomes	LE
Biotechnology and its Uses in Veterinary Medicine	Classification and characterization of genetic epidemiological samples of: Infectious bronchitis and its relationship to vaccine and the failure of immunization. Bluetongue disease in Egypt. Newcastle disease virus and molecular trace of the virus in wild birds. Pathogens of hepatitis in ducks Avian influenza viruses in domestic poultry. Clostridium Perfringens associated with the common intestinal broiler. White spots virus in shrimp. Assessment of the bird flu vaccine H9 N2 locally produced. Inhibitory effect of natural bee honey on genes located on chromosome and plasmid resistant to many antibiotic bacteria and isolated from different sources. Differences in prolactin gene and their effect on egg production. The relationship between genetic finger prints and productive and reproductive traits in dairy cattle. Molecular biological studies on of Brucella diseases in farm animals.	Faculties of Medicine, Science, Veterinary Medicine, Agriculture, and Pharmacy	2013	2023	Application registration of at least 4 applications of biotechnology in the field of veterinary medicine. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	2 million

Research Fields	Activities	Faculties	Time Plan			Budget
			From	To	Outcomes	LE
Biotechnology and Agricultural and Biological Applications	Molecular studies for the production of biologically important and economically feasible compounds. The use of biotechnology applications in the development of animal production and fisheries. Molecular studies for the production of valuable compounds in increasing crop productivity and agricultural and food products. Study the use of biotechnology for the prevention of pests and biological resistance.	Faculties of Science, Veterinary Medicine, and Agriculture	2013	2023	Registration of at least 4 applications of biotechnology in crop productivity, biological resistance, and livestock production and food industries. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	2 million
Biotechnology and Medical Applications	Study of application of biotechnology in the detection and treatment of chronic and endemic diseases and prevention.	Faculties of Medicine, Science, Veterinary Medicine, and Pharmacy	2013	2023	Registration of at least 2 applications of biotechnology to serve the medical fields. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of scientific research published in international, highly cited journals by not less than 10% annually.	2 million



The Executive Plan 2013-2023

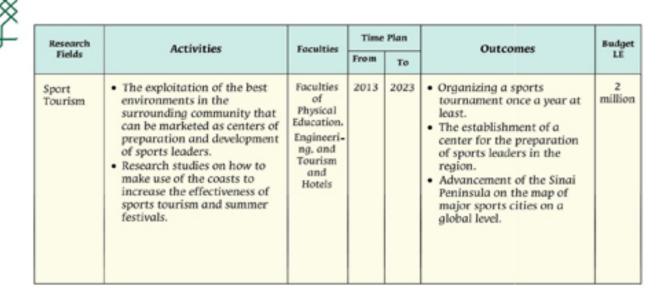
Third Topic

Infrastructure Development and Technology Application and Implementation in Suez Canal Region and Sinai (TR)

- Eco-tourism and Archaeological Tourism (TR1)
- Development of the New Technological Zones (TR2)
- Construction Technology and Urban Planning (TR3)
- Development of Construction and Production Materials (TR4)
- Machinery and Equipment Technology (TR5)
- Information and Communication Technology and Remote Sensing (TR6)
- Development of Transportation and Communication Facilities (TR7)

• Eco-tourism and Archaeological Tourism (TR1)

Research	Activities	Faculties	Time	Plan	Outcomes	Budget
Fields	ALLIVILIES	rucuities	From	То	Outcomes	LE
Preservation of Touristic Heritage Zones and National Parks	The effects of the Greek and Roman era on Egypt. The ancient Egyptian monuments. The effects of the Islamic and Coptic eras on Egypt. Modern and contemporary Egyptian history. The importance of archaeological sites in Suez Canal Region.	Faculties of Tourism and Hotels, Engineering, and Arts and Humanities	2013	2023	An Increase in the rate of tourist visits to the sites of the Suez Canal and Sinai region by at least 5% annually. An increase in the rate of granting Masters and PhDs in the field by not less than 10% annually. An increase in the rate of scientific research published in international, highly cited journals by not less than 10% annually.	1 million
Art and Miniatures	Arts in ancient Egypt. Arts and crafts in the Islamic era.	Faculties of Tourism and Hotels and Arts and Humanities	2013	2023	An increase in the rate of granting Masters and PhDs in the field by not less than 10% annually. An increase in the rate of scientific research published in international, highly cited journals by not less than 10% annually.	100000
Tourism and Hotel Marketing in Suez Canal Region	The development of medical tourism in the region. The development of recreational tourism in the region. The development of religious tourism in Sinai. The development of environmental tourism in Sinai. Tourism marketing in North and South Sinai.	Faculties of Tourism and Hotels, Science, Commerce, and Arts and Humaniti- es	2013	2023	High rate of tourism and hotel marketing in the region by at least 5% annually. An increase in the rate of granting Masters and PhDs in the field by not less than 10% annually. An increase in the rate of scientific research published in international, highly cited journals by not less than 10% annually.	2 million



Development of New Technological Zones (TR2)

Research			Time	Plan		Rudost
Fields	Activities	Faculties	From	То	Outcomes	Budget LE
Technologi- cal Development	The development of technology Valley Ismailia. The development of the industrial zone at the western Gulf of Suez.	Faculties of Engineering. Science, and Computers and Informatics	2014	2023	Implementation of 4 applications in the field of technological development in the region. An increase in the rate of granting Masters and PhDs in the field by not less than 10% annually. An increase in the rate of scientific research published in international, highly cited journals by not less than 10% annual.	2 million

Construction Technology and Urban Planning (TR3)

Research			Time	Plan		Budget
Fields	Activities	Faculties	From	To	Outcomes	LE
Architectu- ral Design	Studying theories of formation and architectural configuration. Studying the impact of climatic and environmental factors on the local, traditional and historical architecture. Studying computer applications in architecture. Studying environmental impact on architectural projects and green architecture.	Faculties of Engineering, Science, Tourism and Hotels, and Computers and Informatics	2013	2023	Implementation of at least 4 applications in architectural design in the region. The satisfaction of not less than 70% of the users of applications. An increase in the rate of granting Masters and PhDs in the field by not less than 10% annually. An increase in the rate of scientific research published in international, highly cited journals by not less than 10% annually.	1 million
Urban Planning and Design in the Suez Canal Region	Studying the foundations of designing urban agglomerations Studying the characteristics of housing in cities of the region. Studying the geographic information systems (GIS) for the purposes of urban and regional development. Studying the foundations of designing the outdoors public spaces. Studying the economic aspects of the real estate evaluation and marketing. Analytical study of preservation and maintenance systems of the urban environment. A study to identify elements of site management. Planning of the use of landscapes and the development of natural resources in the Sues Canal region and Sinai.	Faculties of Engineering. Commerce, and Arts and Humanities	2013	2023	Implementation of 4 applications in the field of urban planning and design in the region. The satisfaction of not less than 70% of the users of applications. An increase in the rate of granting Masters and PhDs in the field by not less than 10% annually. An increase in the rate of scientific research published in international, highly cited journals by not less than 10% annually.	2 million

Research	Activities	Faculties	Time	Plan	Outcomes	Budget
Fields	Activities	Tocurries	From	To	Outcomes	LE
Technical Services for Major National Projects in Suez canal Region	Elicitation of concepts of advanced Building Systems. Studying the identification of elements and constituents of management systems of construction projects. Production of digital maps for infrastructure using GIS. Production of a guiding digital map for the use of lands in Ismailia governorates. The use of satellite imagery for developing maps to create databases for decision-makers to create major projects. Study of movements of the earth crust and landslide of estates. Use of non-metric cameras in monitoring the behavior of cracks in buildings.	Faculties of Engineering, Science, Commerce, Computers and Informatics, and Arts and Humanities		2023	A map of infrastructure and digital maps for at least 3 cities in the region. The existence of databases to serve major national projects in the region. The implementation of 4 major projects in the region. The satisfaction of not less than 70% of the beneficiaries of Project Services. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	5 millio
Establishme- nt and Development of Industrial Cities in the Suez Canal Region and Sinai	Environmental studies on the best industries in the Suez Canal region and Sinai Studying and planning the establishment of industrial cities on the East bank of the Canal and the most convenient way to connect them with the main axes of transportation.	Faculties of Engineering and Science	2013	2023	An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually. The use of at least 4 techniques applied in the areas of industrial projects.	5 million

Research	Activities	Faculties	Time	Plan	Outcomes	Budget
Fields	Activities	rocuities	From	To	Outcomes	LÉ
Civil Engineering Applications in the Establishme- nt and Development of Tunnels and Bridges	Designing and developing the implementation of tunnels through the Suez Canal. Studying the nature of the soil on both sides of the Canal to determine the most appropriate places from the geological and engineering points of views to implement tunnels. Studying modern methods to isolate the tunnels and prevent leakage. Studying the most appropriate methods to establish bridges to connect the two banks of the Canal.	Faculties of Engineering and Science	2013	2023	An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually. The use of at least 4 techniques applied in the establishment of bridges and tunnels.	5 millions

Research	Activities	Faculties	Time	Plan	Outcomes	Budget
Fields	Activities	rocurties	From	To	Outcomes	LE
Construction of Networks of Roads and High-tech Railway Networks	The development and renovation of Shaheed Ahmed Hamdi Tunnel. The establishment of tunnels under the Canal (Ismailia Tunnel - Port Said Tunnel). The establishment of a network of roads in Sinai between Ismailia Tunnel, Port Said Tunnel and Shaheed Ahmed Hamdi Tunnel. Studies the economics of the establishment of alternative roads in the Sinai (Center and North) to confirm the link with the main axes of the region. A study of linking the ports of East Port Said and West of the Gulf of Suez and Nuweiba via high-tech railway network.	Faculties of Engineering. Commerce. and Computers and Informatics	2015	2023	The establishment of 3 road networks and 3 communications networks linking between the cities of the Canal and Sinai. The satisfaction of not less than 70% of the beneficiaries of telecommunications services. An increase in the rate of commercial traffic and services between cities of the Canal and Sinai by not less than 10% annually.	5 million
Civil Engineering Applications in the Exploitation of Water Resources	Studying the development and establishment of desalination plants from the sea or groundwater wells. Studying the establishment of tanks to collect rainwater in the Sinai region. Studying the development and the construction of water canals and channels.	Faculties of Engineering and Science	2013	2023	An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually. The use of at least 4 techniques applied in the exploitation of water resources.	5 million

Research			Time	Plan		Budget
Fields	Activities	Faculties	From	To	Outcomes	LE
Civil Engineering Applications in the Development of Lakes and Ports on the Suez Canal and Sinai	Studying the effect of marine currents on the ports of El-Arish and Port Said, and the most appropriate ways to protect them. Studying the creation and development of a yacht marina on the Northern and Southern entrances to the Suez Canal. Studying the most appropriate ways and places to create fishing harbors on the Northern and Southern entrances to the Suez Canal. Studying the development of the ports of El-Arish, Nuweibu, West of Suez Gulf and Damietta. Studying the development of the port of East Port Said at Port Fouad and suggesting the appropriate ways to establish and develop the facilities and the rehabilitation of the East Port Said and around. Developing and raising the efficiency of Lake Bardawil.	Faculties of Engineering, Commerce, Science and Computers and Informatics	2015	2023	An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually. The development and use of information technology programs in at least 3 ports in the region. The satisfaction of not less than 70% of the beneficiaries of ports services.	3 millions
The Development of Maritime and Commercial Services for the waterway of the Suez Canal and Sinai	Establishment of a thinktank for maritime and service specializations. Studying the establishment of units for provisioning and floating supply along the waterway of the Canal. Studying the deepening of the Suez Canal and increase its depth and draft. Studying the possibility of duplication of the Canal. Studying the development of maritime arsenals over the waterway at Port Fouad, Temsah in Ismailia and Port Tawfiq. Studying of the establishment of markets and free zones on the Eastern bank of the Canal.	Faculties of Engineering, Commerce, and Computers and Informatics	2014	2023	The development of maritime services in at least 3 sites in the region. The satisfaction of not less than 70% of the beneficiaries of the maritime services. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	10 million

Research	Activities	Faculties	Time	Plan	Outcomes	Budget
Fields	Activities	rucuities	From	То	Outcomes	LE
Development of Tourist Facilities in Cities of the Suez Canal Region	The establishment of new Urban centers of marine and beach tourism on the waterway of the Suez Canal. Development of centers for marine and beach tourism at cities of the Suez Canal region and Sinai.	Faculties of Engineerin g and Tourism and Hotels	2014	2023	Participation in the establishment of 3 tourist facilities and the development of another 3 Facilities in the region. The satisfaction of not less than 70% of the beneficiaries of the developed tourist facilities.	5 million
Development of Infrastructu- re of the Physical Education Sector in the Suez Canal Region and Sinai	Studies on the development of the infrastructure of airports and hotels at the North and South Sinai to carry out programs for camps of the Egyptian and Arabian National teams. Studies to develop the coasts and beaches of Sinai to organize marine and beach championships. Studies to develop the schools, recreational areas and stadiums in the region to improve the health and physical levels of the schoolchildren.	Faculties of Engineering, Physical Education, Computers and Informatics, and Tourism and Hotels	2013	2023	Organization of at least one local or international sporting activity a year, using the developed infrastructure. Organization of at least 3 school sports activities annually using the developed infrastructure. The satisfaction of not less than 70% of the beneficiaries from the sports infrastructure. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	1 million

Development of Construction and Production Materials (TR4)

Research		W	Time	Plan	2	Budget
Fields	Activities	Faculties	From	To	Outcomes	LE
The Development of Building Materials	Studying the development of the uses of modern building materials. Studying the most appropriate methods to use building materials and quarries in the constructions at the Suez Canal region and Sinai.	Faculties of Engineering and Science	2013	2023	Implementation of at least 4 applications at the field of construction technology in Suez Canal region. The satisfaction of not less than 70% of the beneficiaries from the implemented applications. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	3 million
Testing, Evaluation and Development of Operational Materials	Tests for breakage pipes carrying gases and oils. Operational tests for advanced composite materials. Tests for formation of iron and alloys with high stress. Erosion stress of iron and alloys. Corrosion tests of automotive brake.	Faculties of Engineering and Science	2013	2023	An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually. The use of at least 4 technical applications at the field of testing the operational materials. The satisfaction of not less than 70% of the beneficiaries from the applications.	1.5 million

Research	Activities	Faculties	Time	Plan	Outcomes	Budget
Fields	Activities	rucuroes	From	To	Outcomes	LE
Methods and Steps of Materials Production	Technology of superalloys production. The production of ceramic materials. The production of polymeric materials.	Faculties of Engineering and Science	2013	2023	An increase in the number of awarded Masters and PhD. degrees by at least 5% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 5% annually. The use of at least 4 technical applications at the field of material production. The satisfaction of not less than 70% of the beneficiaries from the produced materials.	1.5 million
Production of Nanometric Raw Materials	Studying the improvement of the production of nanometric materials. Studying the production of pure silicon.	Faculties of Engineering and Science	2013	2023	An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	2.5 million

Machinery and Equipment Technology (TR5)

			Time	Plan		
Research Fields	Activities	Faculties	From	То	Outcomes	Budget LE
Machinery and Internal Combustion	Studying the efficiency of engines. Studying the effect of fuel type on engines.	Faculties of Engineering and Science	2013	2023	Implementation of 4 research applications in the field of machinery, and internal combustion. The satisfaction of not less than 70% of the users of the applications. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	500000
Fluid Mechanics and its Machinery	Studying the flow around streamlined objects and buildings. Studying the flow in the airways. Studying performance of fluid machinery. Studying the behavior of nano-fluids in heat transfer and fluidity characteristics. Improving the design of pumps and compressors. Improving the design of hydraulic circuits. Developing the design of valves to meet the new operation requirements. The use of numerical methods and computer to improve the performance of pumps, compressors and the air flow and the flow around and through objects and at the combustion processes.	Faculties of Engineering. Science and Computers and Informatics	2013	2023	Implementation of 4 applications in the field of fluid mechanics and its machinery. The satisfaction of not less than 70% of the users of the applications. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	500000

Research	Australia.		Time	Plan	2	Budget
Fields	Activities	Faculties	From	To	Outcomes	LE
Design and Production Engineering	Studying the quality of the circumstances of industrial operations. Industrial project management.	Faculties of Engineering and Science	2014	2023	Implementation of 4 applications in the field of design and production engineering. The satisfaction of not less than 70% of the users of the applications. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	500000
Agricultural Mechanizati- on	The use of agricultural mechanization in agricultural production in Sinai and the Suez Canal region. Improvement of the performance of agricultural machinery and the increase of its efficiency.	Faculties of Engineering and Agriculture	2014	2023	Implementation of 4 applications in the field of agricultural mechanization. The satisfaction of not less than 70% of the users of applications. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	2 million

Research	A sale datas	Financial co	Time	Plan	0	Budget
Fields	Activities	Faculties	From	To	Outcomes	LE
Medical Equipment and Machinery	The use of modern technology in the design and development of medical equipment. Studying the techniques of maintenance and repair of medical equipment and mechanics.	Faculties of Engineering, Science, Medicine and Nursing	2015	2023	Implementation of 4 applications in the field of design, maintenance and repair of machines and medical equipment. The satisfaction of not less than 70% of the users of the applications. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	5 million
Sports Equipment and Machinery	The use of modern technology in the design and development of sports equipment and devices. Studying the techniques of maintenance and repair of sports equipment and devices.	Faculties of Engineering and Physical Education	2015	2023	Implementation of 4 applications in the field of design, maintenance and repair of devices and sports equipment. The satisfaction of not less than 70% of the users of the applications. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	2 million

Information & Communication Technology and Remote Sensing (TR6)

Research	4 4 4		Time	Plan		Budget
Fields	Activities	Faculties	From	To	Outcomes	LE
Communicat- ions and Networking	Studying the development of mobile networks. Studying the network security and management. Studying the distributed Systems. Studying the intrusion detection techniques.	Faculties of Computers and Informatics, Science and Engineering	2013	2018	The presence of at least 4 of the new algorithms applications. The satisfaction of not less than 70% of the stakeholders of telecommunications applications and networks. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	1 million
The Fourth Generation of Mobile Phone Networks	The development of advanced systems for LTE. Management and scheduling of radio channels on the LTE and LTE Advanced systems. Studying the treatment of the overlap between the units. Developing the capacity to absorb networks based on LTE Advanced system	Faculties of Engineering. Computers and Informatics and Science	2013	2023	The presence of at least 4 innovative programs to enhance the efficiency of the LTE and LTE Advanced systems. Establishment of a center of excellence for wireless systems and development researches in Egypt. Promoting the curricula and networks in 3 of the most powerful circuits in the Egyptian Universities. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	5 million

Research			Time	Plan		Budget
Fields	Activities	Faculties	From	To	Outcomes	LE
Applications of Memory Resistors (Memristor)	Developing an accurate model of memory resistors (Memristor). Manufacturing memory resistors (Memristor) with the CMOS. Incorporation of memory resistors (Memristor) with the CMOS in the memories and logic circuits applications. Studying the characterization of memory with the FPGA.	Faculties of Engineering and Computers and Informatics	2013	2023	The presence of innovative topologies for logic circuits by using the Memristors. Establishment of a base for the utilization of Memristor technologies in Egypt. The presence of memory chips with designing of the mixed and logic operations. The presence of a tool to support the postgraduate and electronic curricula. The satisfaction of not less than 70% of the stakeholders of the applications.	5 million
Microgrid	Analysis of the disease controllers in microgrid. Protection of networks and communications	Faculties of Engineering and Computers and Informatics	2013	2023	Presence of definite mechanisms for the analysis and maintenance of the microgrids. The satisfaction of not less than 70% of the stakeholders of the applications.	1 million
Geographic Information Systems (GIS) and Remote Sensing	Studying the planning and management of geographic information systems (GIS). GIS applications. Studying the analysis of GIS.	Faculties of Computers and Informatics, Science, Engineering, and Arts and Humanities	2013	2018	The presence of at least 4 of the new technologies applied in the field of GIS. The satisfaction of not less than 70% of the stakeholders of the applied techniques of the field. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	1 million

Research	A	W	Time	Plan		Budget
Fields	Activities	Faculties	From	To	Outcomes	LE
Electronic Information and Management Systems	Studies on e-commerce and electronic business. Studies on banking and electronic services. Studies on distance learning and e-learning. Studies on E-government and online information systems.	Faculties of Computers and Informatics, Science, Engineering and Commerce	2015	2023	The presence of at least 4 models of programs and applied algorithms. The satisfaction of not less than 70% of the stakeholders of the information systems applications. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	1 millio
Methods of Security and Privacy in Computers	Studies on science of encryption. Studies on security and electronic privacy systems.	Faculties of Computers and Informatics, Science and Engineering	2015	2023	The presence of 4 new methods of security and privacy of computers. The satisfaction of not less than 70% of the stakeholders of the security and privacy applications. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	1 million

Research			Time	Plan		Budget
Fields	Activities	Faculties	From	To	Outcomes	LE
Image Processing and Computer Provision	Detection of forgery in images. Identifying persons using the natural features (Biometrics) of the imprint of the eye, ear, hand and DNA. Studying matching and merging images. Studying encryption and compression of images.	Foculties of Computers and Informatics, Science, and Engineering	2013	2018	The presence of at least 4 new applications in image processing. The satisfaction of not less than 70% of the stakeholders of image processing applications. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	1 million
Computer Graphics	Studying the virtual reality. Geometric modeling. Animation and three-dimensional geometric shapes.	Faculties of Computers and Informatics, Science, and Engineering	2013	2020	The presence of at least 4 of the new applied algorithms. The satisfaction of not less than 70% of the stakeholders of the graphic applications. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	50000

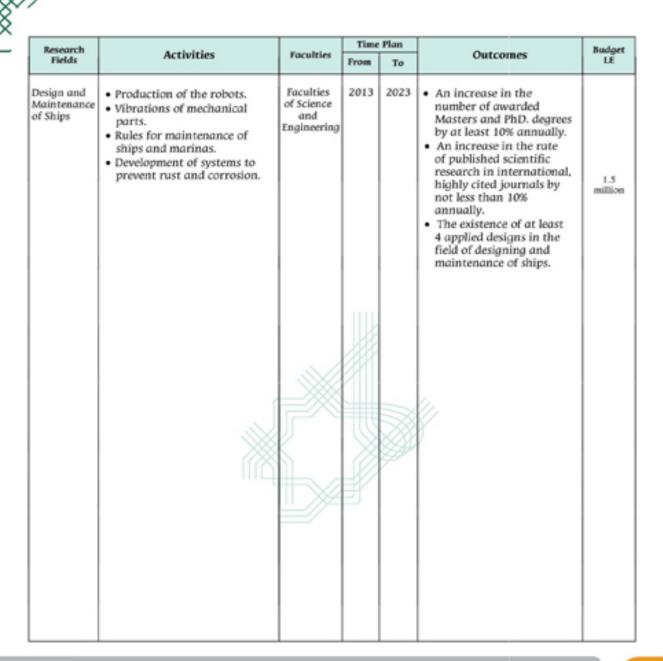
Research			Time	Plan		Budget
Fields	Activities	Faculties	From	То	Outcomes	LE
Software Engineering	Studying the cloud computing. Software quality. Analysis and design of software.	Faculties of Computers and Informatics, Science, and Engineering	2015	2020	The presence of at least 4 of the new software engineering. The satisfaction of not less than 70% of the stakeholders of the software engineering applications. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	1 millio
Database Systems	Database designing. Data searching. Retrieving and storing information. Bioinformatics study.	Foculties of Computers and Informatics, Science, and Engineering	2014	2020	The presence of at least 4 of the new applied algorithms. The satisfaction of not less than 70% of the stakeholders of database systems applications. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	1 millior

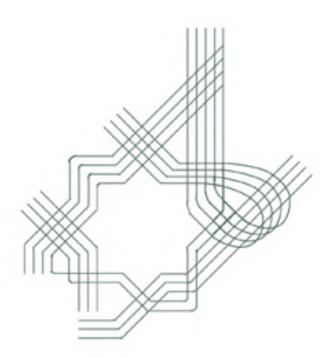
Research			Time	Plan		Budget
Fields	Activities	Foculties	From	To	Outcomes	LE
Information Systems Engineering	Studying the analysis and design of information systems. Studying the security of information systems. Studying the multimedia applications in information systems. The possibility of developing the information Systems	Faculties of Computers and Informatics, Science, and Engineering	2013	2021	The presence of at least 4 of the applied software models in information systems engineering. The satisfaction of not less than 70% of the stakeholders of the information systems applications. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	1 million
Decision Making Supporting Systems	Development of decision making supporting systems. Studying factors that affect the application of decision making supporting systems. Studying the management of online decision making supporting model.	Faculties of Computers and Informatics, Science, Engineering and Commerce.	2015	2023	The presence of at least 4 new applied models in the decision making supporting systems. The satisfaction of not less than 70% of the stakeholders of the decision making supporting systems. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	1 million

Research			Time	Plan		Budget
Fields	Activities	Faculties	From	To	Outcomes	LE
artificial ntelligence	Identifying persons and objects by using neural electronic networks. Knowledge representation. Natural Language Processing.	Faculties of Computers and Informatics, Science, and Engineering	2014	2023	The presence of at least 4 new applied technologies in the field of artificial intelligence. The satisfaction of not less than 70% of the stakeholders of the artificial intelligence applications. An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually.	50000

Development of Transportation and Communication Facilities (TR7)

Research			Time	Plan	_	Budget
Fields	Activities	Faculties	From	To	Outcomes	LE
Maritime Transport	Maritime Transport – administration and safety standards. Studies on the economics of the operation of Maritime transport at the Suez Canal region. Developing the Egyptian arsenals for maintenance and repair operations of the ships that passing the Suez Canal. Risk assessment in Maritime transport.	Faculties of Engineering, Commerce and Science	2013	2023	An increase in the number of awarded Masters and PhD. degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually. The existence of at least 4 designs applied in the field of maritime transport.	1.5 million
Maximizing and Increasing the Production of ships	Expansion in the design and production of small marine units. Designing and production of small aluminum ships. Converting ships and new designs for the double hull ships. Modernization and development of the Egyptian fishing ships.	Faculties of Science and Engineering	2013	2023	An increase in the number of awarded Masters and PhD, degrees by at least 10% annually. An increase in the rate of published scientific research in international, highly cited journals by not less than 10% annually. The existence of at least 4 designs applied in the production of ships.	1.5 million





Matrix for Activities of the Faculties in the University Research Plan

							I	Des	reli	ope	me	nt	of I	Hu	m	an	Re	904	PO	es	in	Su	ez (Cas	nal :	Reg	ios	ar	d S	lima	si ()	HR,	,							Te	ppic	
E	hev	ello	preser		of em								de	ıa	md			P	ubl	ic i					e, E												ds a	md		Sub.	Topic	
	A Semantic and Linguistic study of Documents and Ancient Manuscripts	Studies on Contemporary Lingual Issues	The Impact of Written Language of Advertisements in Sucz Consil Region and Sinai	Canal region and sinds	Words and Social and Intellectual Phenomena of Traditional Crafts in Suez	Different projects and ranginges in specification suggests and single	Piliferent Pilaters and Francisco in Francisco in Standard Standard Standard in Standard i	Critical Discourse Analysis in Suez Canal Region and Sinai	Language in Sucz Canal Region and Sinai	The Role of Mosques and Qur'an Memorization in Maintaining Arabic	Assessment of the Status of Women and the Egyptian Feminist Movement	Tolk Arts of the Cities of Suez Canal Region and Sinai	The Arab Tribes and their Evolution in Sinai and Eastern Delta		Violence, Intolerance, and Behavioral Trends Modification	Development of Human Resources in the Physical Education Sector	Formily Health	The Health of Mouth, Gingiva, and Teeth in Children	Treatment Methods of Teeth and Teeth Roets Diseases	Contract any second	Fuertal issolvants	Studies of temporomandibular joint	Dental Tissue Engineering	The Use of Modern and Nano-metric Methods and Applications in Dentistry	Anesthesia and Pain Treatment Researches	Research on Diagnostic and Therapeutic Radiology	Emergency and Disaster Medicine	The Use of Modern Technology in Nursing Care	The Total Quality of Nursing Care and Patient Safety	Food Safety and its Impact on Public Health	Region, Sinui and Methods of Prevention	Toxicity of Drugs Used in Treatment of Endemic Diseases in Suez Canal	Prevention and Treatment of Bacterial and Fungal Infections	The Prevalence of parasitic infections and methods of treatment	The Prevalence of Tumors and Methods of Diagnosis and Treatment	Causes and Means of Diagnosis, Treatment and Prevention of Diabetes	Liver Diseases	Early Diagnosis, Prevalence, Risk Factors and Methods of Treatment of	A Comprehensive Survey of Health and Environmental Problems in the Sucz		Field	
				İ		İ	İ						İ	İ						ĺ											İ							Ì		Medic	ine	ı
				Ī		Γ	Ī						Г	Ī							ı					Г		Г												Pharm	wcy	
																															I									Veterii Medic		
						Γ							Г																											Denti	itry	J. Park
				Ī		Γ	I						Γ	Ī				Г	Г	Τ	1																			Nurs	ing	CHANG
																																								Scien	ce	
																																								Agricul	tunal	
																																								Educa	tion	
																																								Arts & Has	nanities	
				I										I						I											I									Tourism &	Hotels	
																																								Contra	ence	
																																								Engine	rring	è
																																								Comput inform		4000
																																								Educa	tion	
														ľ																										Agricul Scien		



			co	mt.	Dev	eleq	gran	ent	of	Hu	ım	an	Re	sou	rce	s in	Suc	nz C	ana	Rej	pio	n an	d S	Filmo	ni ()	нжр						Topic		
					Cont.	De	eve	dop	me	nt	of	Bei	ha	rior	75. <i>j</i>	Accie	ude	s a	nd H	luma	ın	Skill	s (HR	2)						4	Sub. Topic		
The Strategic Dimension of the Suez Canal and its impact on the Experien Foreign Policy	Political and Community Development for the Suez Canal Region and Sinal	Local Administration in the Governorates of the Suez Canal Region and Sinai	Marketing in the Institutions of the Region	Production Management in the Institutions of the Region	Developing Human Performance and Organizational Behavior in the Institutions of the Region	Financial Management in the Institutions of the Region	Auditing institutions in the Region	Accounting as the institutions of the Region	Social raychology and raychological and Jocasi rhenomena	Carlot Brookston and Brookston and Carlot Bloomston	Perchanathology and Thursquettic Psychology	Special Categories and How to Deal with them	Talent and Mental Excellence	Child Development and Kindergartens	Literacy and Adult Education	Development	Contemporary listues and Problems of Education	of their lise in Higher Education	Schools Elearning, Self-learning, and Distance Education and the possibility	Modern Global Trends in Methods of Teaching and Application in	Educational Programme Cumically and Foundam Education in Found	The Development of Educational Programs in Accordance with Osality Assurance and Accordination	Professional Preparation and Development of Teachers	Educational Administration and Structure	Education Policies, Planning, and Economics	Pre-university Education	Tourism and Hotel Marketing in the Canal region and Sinai	Hotel Management	Palestinian Issue and the Historical Relations between Eastern & Western Worlds	Translation Studies		Field		
																															A	tedicine		Ī
							L			1	1						L	L	1	1	_			L							P	harmacy	ı	ı
							L	L	L	1	1					L	L	L	1	1	1											eterinary fedicine		l
							L				1							L		1											z	hematistary:	ı	l
						L	L	L	L	1	1						L	L		1	1										,	Nursing		l
							L		L	1	1				L		L			1												Science	Į,	l
				L		L	L	L	L									L			J										Ag	ricultural	Leanaille	l
						L	L	L		l							L	L									L				E	ducation	ľ	Constant of
				L		L	L	L		ļ								L	1	_					L						Arts 8	Humanities		ľ
							L	L	L	1	1						L	L	4	1	4										Tour	ism & Hotels		l
						L			L	1	1						L	L		4	-					L					0	ommerce		
_									L	1	1						-			+	-											gineering		
_						L	H	I	Ļ										1												Án	mputers & formatics	L	
_																		F	1	4							L					ducation ricultural	,	
										1	- 1										П					1						Sciences	trish	d

			PY	rote	cti	on,	Pres	erv	viti	iom	æ	he	De	velo	P#	ner	nt e	f N	acu	rai	Re	our	ces	in	Su	w C	an	al I	egi	ion	dn	d S	ina	i (N	R)					Topic	
	Deve	vatio dope Wat rces	nent er	t		ťπ	Dr mufo om N	ctu latu	ıra	Ĺ	I			atu		Re	lina rsou				Epid	lemi				e m Cha					on	an	d		lns	tin lodi	ctie ct L ven	ife		Sub. Topic	
	Detection of New Water Sources in the Suez Canal Region and Sinai	Prevailing Water for Irrigation and Aquaculture in the Suez Canal	Protection of Water Resources in Suez Canal and Sinal region from Pollution	Management, Development and Protection of Water Sources	The Use of Natural Resources in the Development of Sports	Veterinary and Experimental Treatment Using Natural Compounds	The Extraction of National Products From Assesses and their Uses and Effects	free Bacteria and Fungi	Preparation of Compounds with Biological and Therapeutic Activity	Environmental Plants in the Sucz Canal Region and Single	The Patronice of Material Phonescontical Products from	Detection of New Oil Sources	Development of Mineral Resources of Industrial and Economic Values	Relogical and Industrial Applications	Demonstrate of Property of Par	Hellinotics of Material Toolse	Increase in the Productivity of Ornamental, Oil-producing, and	Fisheries and Fishery Technology	Taking Advantage of the Resources of the Marine Environment	products in the area of the Suez Canal Region and Sinai	Health Problems and Causes of Diseases of Livestock and animal	Health Problems and Causes of Avian Diseases in the Area of the Suez	Region and Sinoi	The Impact of Environmental Factors and Pollutants on Animals	Productivity of Agricultural Crops	Climatic and Environmental Changes and their Effects on Plants and	Reduction and Treatment of Soil Contamination	Marine Poliution and its Impact on Marine Communities	Evaluation and Treatment of Drinking Water and Sanitation Types	Monipulation of Air Pollution	Radioactive Contamination in the Sucz Canal Region	The Study of Biological Phenomena and Problem	Reduction of the Risk of Desertification and Flooding	Conservation and Development of Wild life and Nature Reserves	Physical, Chemical and Geological Properties	and Mediterranean Seas	Protection of Marine Communities of Sucr Cond Region and the Red	Canal Region and Singi	Protection and Development of Vegetation and Floro in the Succ	Fleid	
	Ť	٦		Г		Г			Ì		İ	İ			١	İ					ľ	1		Ť	t	Ť	İ	1	Ì	ı				П		Ī	Ť	t	1	Medicine	I
	T						Г				Ī	T	П		Ī			Г	Г		Ī			Γ	Γ	T	T	1	Ī	Т	П					Г	Τ	Г	I	Pharmacy	ı
	T	П		Г	Г	Ī	Т		Ī		Ì	T		Г	Ī	Ī			Γ	Ī	Ī	ı			Г	T	1	I	١								Ī	Г	1	Veterinary Medicine	١
	T				Г	Г	Г	Г	٦		Ť	T	Т		Г	1		Г	Г	Г	Т			Г	Ī	T	Ī	T	T	Ī	7	П		П		Г	Т	Ī	Ī	Dentistry	١
	T								Ī		İ	T	1		Ť	İ			Г	T	Ť			T	T	T	T	1	1					П		Г	Ť	T	1	Nursing	١
	ı			Ī					ı		ı	ı	ı		ı	ı					Ī			ı	ı	ı	ı	ı	ı		ı	Ī		Ī		ı	ı	ı	1	Science	١
	Ī	Ī			Г		Т		Ī		ľ	Ī			Ī	Ī				Ī	Ī	Ī		Ī	Ī	Ī	Ī	٦	Ī	Ī		Ī				Г	Ī	T	Ī	Agricultural	١
ľ	T										Ī					Ī			Г		T			Γ	Γ	T			I									Г		Education	I
											I					Ī									Ι															Arts & Humanities	ı
											I					I									I															Tourism & Hotels	ı
																																								Commerce	
																																								Engineering	
																																								Computers & Informatics	
																																				L				Education	
ï											1	1	П																											Agricultural Sciences	



			cor	mt.	Pre	ote	ctie	on,	. 19								d S				cus	ai i	Kes	our	ces	100					Topic
y & G Engin	otechnolog & Genetic New and Renewable Energy ngineering (NR7)							ngry		Food Resources, Production and Safety (NR6)											,	Sub. Topic									
Biotechnology and Medical Applications	Riotechnology and Agricultural and Biological Applications	Biotechnology and its Uses in Veterinary Medicine	Studying the Heat Exchangers	Continuous Combustion Applications	Renewable Energy Applications in Marine Fields	Studying the Development of Heat Recovery Methods	Device major or secondy energy	Paulos Mone of Conden Ensures	Recycling of Agricultural and Industrial Waste	Clean Energy from Nuclear and Thermal Reactions	Energy Production from Biological Sources	Taking Advantage of the Underground energy	Exploitation of Wind Energy	The Use of Solar Energy	The Foundations of Quality and Health of Food of Animal Origin	Production of Legumes and Soil Fertility	Development of Palm Plantations	Filling the Food Gap of Wheat Crop	Production, Farming and Protection of Horticultural Plants	Increasing the Productivity of Vegetable Plants	Increasing the Productivity of Fruit Plants	Breeding and Protection of Field Crops	Developing and Updating the Agricultural System	The Development of the Honey Bee Industry	The Development of Food Processing in the Canal Region and Sinai	Promoting Dairy Industries	The Development of Fish Farming in the Canal region and Sinai	Improving the Production of Eggs, Poultry and Rabbits	Development and Improvement of Livestock Production	Animal Feed and Fodder Production	Field
	Г		Г		T	t	t	İ	T																						Medicine
					Г	Г	Τ	T					Г	Г	Г		Г		Г												Pharmacy
			Г		Г	Г	Т	T	T				Г			Г	Г					П									Veterinary Medicine
	П	Г			Г	T	T	T	1						Г									Г		Г					Dentistry
					Г		T	T																							Nursing
							ı	ı			Ī											Ī				Г					Science
																															Agricultural
																															Education
																															Arts & Humanities
																															Tourism & Hotels
																															Commerce
															L		L							L							Engineering
					L	L	1								L		L														Computers & Informatics
	L				L	L	1																								Education
																															Agricultural Sciences

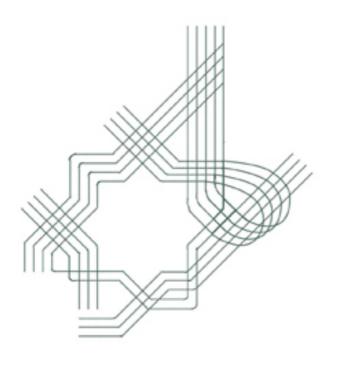


quipment of the New Technological and the New Technological Construction Planning (TR3) Technological Comes (TR2) Sub. Topic Construction (TR4)		In	ifira	isti	ruc	tur	ne I	De	vel	юрн	men	it an	d T					catio ai (T		id I	mpl	eme	entation in Su	ez C	ane	all		Topic
Phaemacy Steer Canal Region Industrial Cities in the Suer Canal Region Industrial Cities in the Suer Canal Region Industrial Cities in the Suer Canal Region Development and Development Establishment and Development Tourism Resources Development of Lakes and Ports Cities of the Suer Canal Region Tourism Resources Education Arts & Humanities Commercial Services for the Cities of the Suer Canal Region Tourism R Hotels Commercial Services in the Suer Canal Region Arts & Humanities Commerce Engineering Comparers & Reformation Comparers & Reformation Education	Machinery and Equipment Technology (TR3)			l.	Cou	Pro	racti dec	ion tion		on	struc						ur	bair		of the New Technological	Archaeo cal cal Tour			ogi	Sub. Topic			
Pharmacy Veterioary Medicine Dentistry Nursing Science Agricultural Education Arts & Humanities Tourism & Hotels Commerce Engineering Congruent & Informatics Education	Special Formand and Mark same	Medical Faultment and Machinery	Agricultural Mechanization	Design and Production Engineering	Fluid Mechanics and its Machinery	Machinery and Internal Combustion	PERSONAL DE PRINCIPALITA DAM PRINCIPALITA	Production of Nanometric Raw Meterials	Methods and Steps of Materials Production	Testing, Evaluation and Development of Operational Materials	The Development of Building Materials	Development of Infrastructure of the Physical Education Sector in the Suez canal Region and Sinal	Development of Tourist Facilities in Cities of the Suez Canal Region	The Development of Maritime and Commercial Services for the waterway of the Canal and Sinal	Civil Engineering Applications in the Development of Lakes and Ports on the Suez Canal and Sinai	Civil Engineering Applications in the Exploitation of Water Resources	Construction of Networks of Roads and High-tech Railway Networks	Civil Engineering Applications in the Establishment and Development of Twenels and Bridges	Establishment and Development of Industrial Cities in the Sucz Canal Region and Sinai	Technical Services for Major National Projects in Suez canal Region	Urban Planning and Design in the Suez Canal Region	Architectural Design	Technological Development	Sport Tourism	Tourism and Hotel Marketing in Suez Canal Region	Art and Miniatures	Preservation of Touristic Heritage Zones and National Parks	Field
Veterinary Medicine Dentistry Nursing Science Agricultural Education Arts & Humanities Tourism & Hotels Commerce Engineering Computers & Informatics Education	1					t	t										Г			T				Г				Medicine
Medicine Dentistry Nursing Science Agricultural Education Arts & Humanities Tourism & Hotels Commerce Engineering Computers & Informatics Informatics Education	Τ					Г	Ι																					Pharmacy
Nursing Science Agricultural Education Arts & Humanities Tourism & Hotels Commerce Engineering Computers & informatics Education	Τ	T	7		Г	Г	Τ	T			Г		Г			Г	Г			Г	Г					П	П	
Science Agricultural Education Arts & Humanities Tourism & Hotels Commerce Engineering Computers & Informatics Education	Ī	T				Г	Τ										Г											Dentistry
Agricultural Education Arts & Humanities Tourism & Hotels Commerce Engineering Computers & Informatics Education		ı				Г	Τ										Г											Nursing
Education Arts & Humanities Tourism & Hotels Commerce Engineering Computers & informatics Education	ı	Ī					ı						Г				Г				Г			Г		П		
Education Arts & Humanities Tourism & Hotels Commerce Engineering Computers & informatics Education																												Agricultural
Tourism & Hotels Commerce Engineering Computers & Informatics Education																												
Commerce Engineering Computers & Informatics Education																												Arts & Humanities
Engineering Computers & informatics Education							I																					Tourism & Hotels
Computers & Informatics Education																												Commerce
Education Education																												Engineering
																					L							
Agricultural Sciences 5																												Education
																												Agricultural Sciences



					ar	nd 5	inu		-											
Develope Transport Commun Facilitie	orm											Sui	b. Topic							
Design and Maintenance of Ships	Maximizing and Increasing the Production of Ships	Maritime Transport	Artificial Intelligence	Decision Making Supporting Systems	Information Systems Engineering	Detabase Systems	Software Engineering	Computer Graphics	Image Processing and Computer Provision	Methods of Security and Privacy in Computers	Electronic Information and Management Systems	Geographic Information Systems (GIS) and Remote Sensing	Microgrid	Applications of memory resistors (Memristor)	The Fourth Generation of Mobile Phone Networks	Communications and Networking		Field		
	t			r	H	H			Н	Н	r				Н	П	Med	licine	ľ	Ī
	Т	Г	Г	Г	Г	Г			Г	Г	Г	Г			Г	П	Phor	тасу	١	l
																		rinary licine		l
	Г															П	Den	cistry		l
																	Nu	sing	ı	
																П	Sch	wee	L	l
																	Agrico	dtural	LIGHTANIA P	
	Г			Г	Г	Г					Г					П	Educ	ation	5	1
	Г			Г	Г	Г			Г	Г	Г				Г	П	Arts & H	umanities	ı	2
																	Tourism	& Hotels		
																	Com	merce		
																	Engin	eering		
																		sters & natics		
																	Educ	ation	П	
																		ulturnal nces	Arush	
	_	-	-	-	-	-	_	_		-	_	-	_						1	











The Research Plan of Suez Canal University 2013-2023 الخطة البحثية Research PLAN SCU 2013 - 2023

NEBRAS



www.scuegypt.edu.eg