



Strategic Plan

College of Science 2018-2022





future prospects

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College of Science

Strategic Plan

2022-2018



Introduction



College of Science strives to develop an ambitious vision and mission with great objectives in order to develop work and improve quality in all fields related to the academic, research and administrative process

Hence, College of Science had to plan strategically for its present and future, taking into account the approach of the vision contained in the future plan of education emanating from the vision of the Kingdom of Saudi Arabia 2030

The College has completed the phases of its strategic plan 2018-2022 after the hard work and sincere efforts of the Strategic Planning Committee and its working teams, which completed many brainstorming sessions, questionnaires and reference comparisons, in addition to holding many meetings and workshops through which this plan was built on the basis a solid scientific process, with the hope that this plan will achieve a qualitative leap for College of Science in the areas of education, scientific research and community engagement.

On behalf of the faculty members, administrators, technicians and students, I present to you the strategic plan of College of Science 2018-2022

College of Science is one of the largest faculties of the university and a fundamental pillar in the education system at King Faisal University. In addition to its large role in teaching large numbers of students in all scientific disciplines, it offers its teaching services to other colleges of the university by teaching many basic science courses

The college is constantly updating its programs for undergraduate and graduate studies and introducing attractive intermediate programs that meet the labor market needs with qualified national cadres



Dean's message

Professor: Ahmed Bin Omar Alnajjar

Dean of College of Science

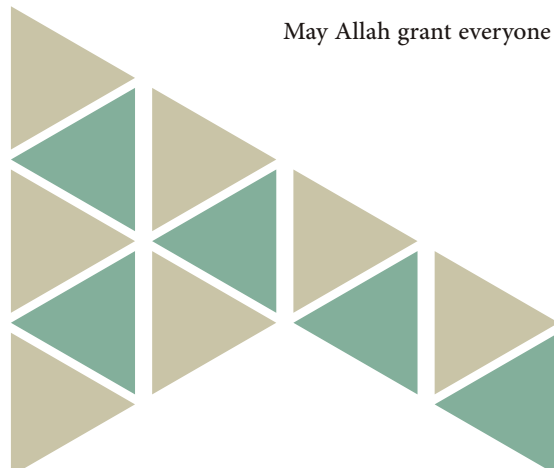


Scientific research is another bright aspect of College of Science, it is in a leading position at the university level in scientific production. It has worked and continued to diversify the sources of support for scientific research internally and externally, strengthening the infrastructure of scientific research and the development of research participation and innovation and maximize the usage of research equipment and training. The College also seeks to open investment channels through the transfer of patents and research results for marketable products and the provision of studies and research consultancy

The College is working on the continuous development of human resources through the planning of human resources needs and attract faculty members with distinguished scientific and research competence and upgrading the efficiency of faculty and staff by supporting participation in conferences, seminars and training programs

College of Science and all its staff will spare no effort in implementing the ambitious strategic plan with all its great objectives in order to develop academic, research and administrative work while adhering to improving quality in all fields

May Allah grant everyone what he loves and please





Overview

College of Science was established on the twelfth of June 2002. It has four academic departments: Biology, Chemistry, Physics, Mathematics and Statistics. These departments were active in the College of Education, offering four bachelor degrees in the above four disciplines and two master's programs in mathematics and physics. In the academic year 2013/2014, a new master's program in chemistry was offered, followed by three master's programs offered by the Department of Biology in Microbiology, Plant and Animal Specialties in the academic year 2016/2017

Accordingly, the College offers four bachelor's degrees in Chemistry, Physics, Biology, Mathematics and Statistics, and six Masters degrees in Physics, Mathematics, Chemistry, Microbiology, Animal and Plant. The College is currently working to provide new doctoral programs for all scientific disciplines in addition to some higher diploma programs according to the requirements of the labor market

In addition to the Deanship of the College, the college has three vice-deans and departments to organize academic and administrative work efficiently. It includes three vice-deans in male Students, namely, the vice-dean of Academic Affairs, the vice-dean of Graduate studies and Scientific Research, the vice-dean of Studies and Development and Community engagement and one vice-dean in female section named as «vice-dean of Academic and Administrative Affairs for Students». Finally, two departments of administrative affairs and another for technical affairs are there

The faculties include more than 400 distinguished members , including faculty members, lecturers and demonstrators, in addition to more than 80 technicians and administrative staff, all of whom contribute to the engagement of the educational process at the college. The College also has more than 4000 students in all scientific disciplines of Bachelor and Master

College is facing a remarkable qualitative transformation that King Faisal University is experiencing in its path towards globalization. The movement to the new campus has brought about a huge institutional development in academic facilities such as professors' offices, smart teaching rooms, TV broadcasting halls and teaching and research laboratories which have become more suitable. College contains advanced scientific equipments that helps students in the teaching process and professors in scientific research, as well as As well as the qualitative transformation for new students of the College of Science with regard to the admission of students for the preparatory year as of the first semester of the academic year 2018/2019

The College periodically reviews its study plans, as the departments recently reviewed the study plans to keep abreast of the latest developments in the fields of science in order to qualify graduates able to cope with the needs of the labor market, as well as obtaining academic credits local and international to make its programs more quality and effective. The college is also reviewing its directions and research strategies for the coming years to following up with the Kingdom's vision 2030 to serve national issues in various scientific fields and involving into advanced research areas such as energy, health, nanotechnology and food security enable researchers at the college to contribute effectively in providing solutions to industrial, technical and environmental issues, and build a community of Science and knowledge

In this regard, the college is interested in community engagement, where the college offers a lot of activities related to community services by providing specialized training courses for beneficiaries from some government sectors and students of general education for research laboratories, in addition to encouraging research that serve environmental and community issues. In addition to the annual numbers of graduates and qualified graduates in different scientific disciplines who participate in serving the community through work in its various institutions



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KINGDOM OF SAUDI ARABIA



Strategic Plan

2018-2022



Methodology of the Strategic Plan 2018-2022

The strategic plan of the College of Science 2018-2022 has been prepared in response to the requirements of the implementation of the strategic plan of the university and in line with its objectives and strategic directions in the light of the principles of Islamic religion, the basic system of governance and its policies with aspiration of vision 2030, and the policies of higher education in Saudi Arabia, and based on many of strategic planning methods and tools

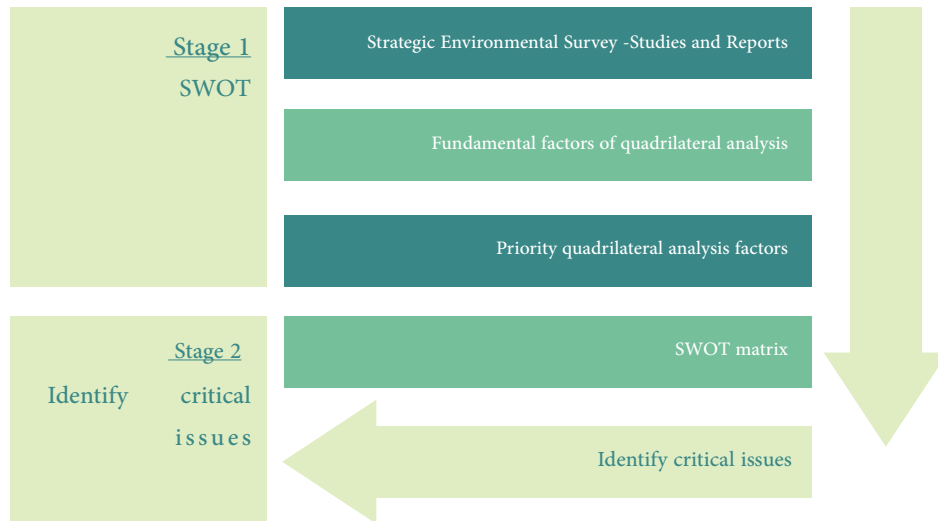
Accordingly, the strategic plan team of the College studied the strategic plan document of the university and all the reports and many studies, as well as the reports of the scientific departments and the reports of the committees related to the College of Science and its various units. After that, the mechanism for preparing and building the strategic plan of the College for the period 2018-2022 has been done

Based on that, the strategic plan's team evaluated the study of trends in the field and completed a study of benchmarking with some of the corresponding colleges of science locally, regionally and internationally, held workshops for internal and external beneficiaries, conducted interviews with the relevant authorities, and distributed questionnaires to the concerned respondents in order to be standing on the most important strengths and weaknesses internally and the most important opportunities and threats in the college environment, which formed the basis for the analysis of the current situation and identify critical issues for the college and formulate strategic and sub-objectives and associated projects

It should be noted that the preparation of this plan came within several activities and events, including (15) meetings of the Strategic Plan Committee of the College and (30) meetings of its subcommittees, in addition to many sessions focus and brainstorming

Strategic Analysis

The strategic analysis of the strategic plan of the College of Science was based on a number of reports and studies related to the College, where data were represented internally in the reports of vice-deans, the departments of the college, committees and units, as well as data derived from the strategic analysis of the strategic plan of the university, and the study of benchmarking in universities inside and outside the Kingdom. Appropriate quantities of preliminary data were obtained from internal and external beneficiaries through the completion of workshops, questionnaires, personal interviews and reports of labor market needs from government and private sectors, which contributed to the identification of critical issues that formed the basis for the formulation of the strategic objectives of the College of Science. Figure 1



● Figure 1: Strategic position analysis framework and identification of critical issues

The pillar of Strategic Analysis

The most important foundations that the strategic analysis relied on are as follow

Reports of the deanships of the college and the subsequent committees and units



Within this framework, periodic and annual studies have made for units and committees related to the deanships and the departments of the college, so that they were able to identify its functions, goals and priorities, evaluate the current situation through using strengths and tackling weaknesses, invest in possible opportunities and avoid the threats

Reports of Internal and external stakeholders



To guarantee participatory planning in making the future strategic plans, the college of science has identified the opinions and aspirations of internal and external stakeholders towards strong and weak points as well as opportunities and threats. That included the future Saudi Arabia directions in industry and energy production, which help to formulate its future strategic goals 2018-2022



The strategic plan team conducted a workshop for internal stakeholders (180 participants faculty members and technicians as well as a workshop for male and female students more than 500 participants, workshop for male and female graduated almost 500 participants, field trips and personal interviews with employers from outside the campus dealt with the vision and suggestions proposed by the college of science, the participants evaluation of the university role in teaching and learning, scientific research and community engagement

The strategic plan team analyzed internal and external environment by designing electronic questionnaires to internal and external stakeholders to identify the positive prevailing practices of the university towards elements of internal and external environment, potential and resources of the university (strengths and weaknesses), conditions of the surrounding environment ((opportunities and threats

The team also conducted a study on the needs of the Saudi labor market from the scientific disciplines based on

- ✓ The annual report of the Ministry of Labor in 2016
- ✓ Oxford External Consultation Report for the Saudi Labor Market 2016
- ✓ A report from Jadwa Investment Company on the Saudi labor market 2017
- ✓ Saudi Labor Market Report 2018
- ✓ A collection of reports from various sources other than the above

Benchmarking Study

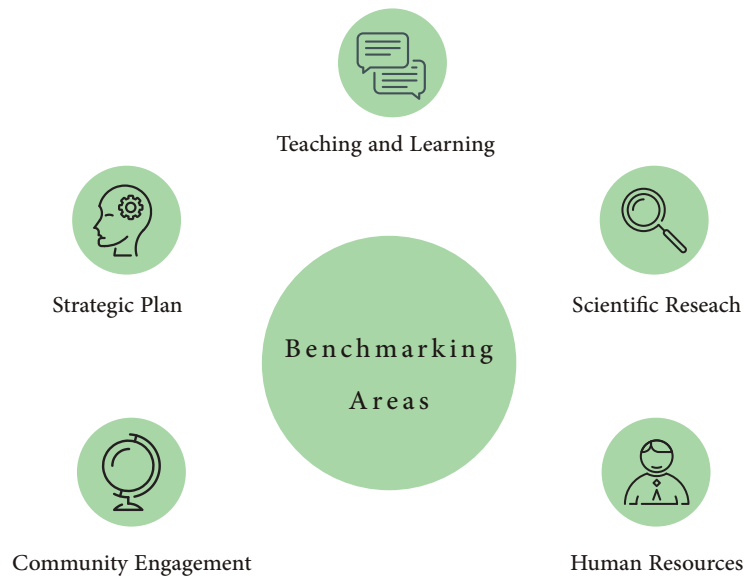
Within the framework of the pursuit of the college of Science at King Faisal University, the strategic plan for its development objectives, it was necessary to conduct a benchmark, which is one of the most valuable administrative tools through which the practices of universities are identified in many ways, comparing the potential of the College to improve performance indicators and strengths and weaknesses, addressing them and coming up with recommendations that would assist in continuous evaluation of the faculty and its academic, research and administrative systems to ensure the quality of implementation

A set of criteria has been adopted for the selection of universities, as following

- ✓ Universities should perform the three main functions of educational research and community engagement
- ✓ The universities should be in their local environment, regional and international
- ✓ Be comparable in terms of objectives, resources and activities
- ✓ The study at the college of science includes the four major disciplines of Physics, Biology, Mathematics and Chemistry
- ✓ Provides bachelor and postgraduate degrees

Benchmarking was made between the college of Science and a group of colleges of science in reputable local, regional and international universities, where King Saud University, King Abdulaziz University and Qassim has been selected as national universities due to their scientific status. The University of the United Arab Emirates, the University of Bahrain and the Sultan Qaboos University were selected from the regional framework as one of the best universities in the Arab Gulf countries. Finally, a selection was made for the University of Cape Town and the University of Copenhagen as international universities, although they are reputable universities with high international ranking compared to King Faisal University

The study concludes with a set of important recommendations according to each of the areas shown in Figure 2

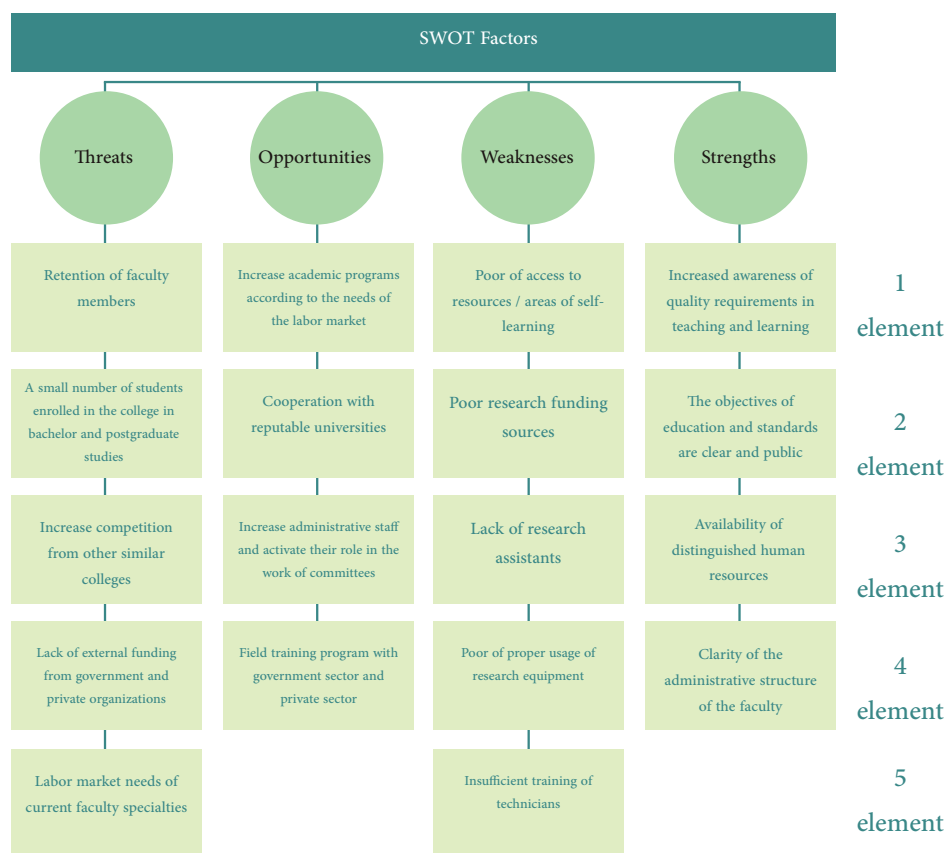


● Figure 2: Comparative fields of benchmarking between the College of Science at King Faisal University and the corresponding colleges locally, regionally and globally

Current Situation Analysis and Critical Issues Identification

Based on the findings and recommendations of the various studies and reports referred to in the strategic analysis (reports of committees and units of the College, report of internal and external beneficiaries, the report of the reference comparative and the report of the strategic analysis of the university), the team of the strategic plan, as a first stage, identified the elements of the SWOT “Strengths, weaknesses, opportunities and threats”, and then arranged these elements according to the highest frequency, priority quartet SWOT factors: “4” strengths, “5” weaknesses, “4” opportunities and “5” threats

Based on this, and as a later stage, the team completed the analysis of the current situation by the SWOT matrix and the identification of critical issues. The following figure shows the priority factors that have been achieved Analysis



● Figure 3: List of priority factors by SWOT, arranged by importance

Based on SWOFT factors analysis and SWOT matrix intersections, by matching strengths and weaknesses with opportunities and threats, the strategic plan team has reached five critical issues facing the college of science, represented in the following



● Figure 4: Critical issues of the Faculty of Science

The identification of critical issues and knowledge of their dimensions is an essential basis in determining the strategic direction of the college of Science, represented in reviewing the vision and mission of the College, and the formulation of its strategic objectives and .executive projects in line with the strategic direction of the University

Strategic Direction of the college of science

Based on the outcomes of the strategic analysis and its analysis that led to the evaluation of the current situational position and identification of critical issues, the new strategic direction of the college of science has eventually been crystalized and represented in its plan through formulating a vision and mission that reflects the aspirations of the college, and formulating a strategic objectives and executive projects to achieve the vision of the college and its mission

The strategic direction of the college has also been determined is in line with the orientation of the university in its strategic plan

Vision, Mission and Values

Vision: Excellence in education and scientific research in basic sciences and their application and enhancing community engagement

Mission: Providing advanced academic programs in agreement with international standards to meet the labor market requirements, and conducting outstanding scientific research to contribute in the community engagement, and preparing qualified and competent people that capable of carrying out their duties in an attractive and stimulating environment

Values: Commitment to the organizational values prevailing in the university as stated in the strategic plan of the university, striving to consolidate the contents of the values of the employees, represented by the following: Loyalty, quality, institutional work, transparency, justice, innovation, lifelong learning





Key strategic objectives

The strategic plan of the Faculty of Science includes five main strategic objectives to achieve its vision and mission, which seeks to achieve those goals by 2022, which are

04 Transferring and indigenization of technology and its optimum use

05 Enhancing community engagement that will lead to mutual enrichment

01 Excellence in basic sciences education and their applications

02 Contribute to the development of outstanding scientific research

03 Lifelong development of human resources



The Sub-goals

To achieve the strategic goals of the College of Science, (12) sub-goals were included. the sub-goals are listed according to their relevance to the strategic goals as follow



04 Transferring and indigenization of technology and its optimum use

- 4.1 Promoting innovation, creativity and entrepreneurship

05 Enhancing community engagement that will lead to mutual enrichment

- 5.1 Developing community engagement programs
- 5.2 Opening investment channels

01 Excellence in basic sciences education and their applications

- 1.1 Developing teaching programs that qualify alumni for labor market and match the kingdom vision 2030
- 1.2 Increasing the number of postgraduate Programs
- 1.3 Achieving academic accreditation for the college programs nationally and internationally
- 1.4 Providing student-centered education

02 Contribute to the development of outstanding scientific research

- 2.1 Providing resources, which support scientific research
- 2.2 Enriching outstanding scientific product in the high-ranking scientific journals
- 2.3 Expanding the fields of cooperation and research partnerships nationally and internationally

03 Lifelong development of human resources

- 3.1 Developing human resources recruitment system
- 3.2 Developing faculty and staff abilities



In line with the main and sub-goals of the college, 41 executive projects related to the college of science were identified. They are selected among the projects contained in the strategic plan of the university as well as new executive projects that have been introduced by the units of the College. The next section illustrates executive projects, which fall under the main and sub-strategic goals of the College

Executive projects	Sub-goal	main strategic goal
1.1.1A survey of labor market needs of the disciplines of basic sciences 1.1.2A benchmarking study in the field of programs and curricula at the department level 1.1.3Re-structuring the study plans 1.1.4Developing of new programs in light of the labor market need 1.1.5Creating a skills record for students 1.1.6Cooperation agreements and academic twinning programs with similar departments	1.1Developing teaching programs that qualify alumni for labor market and match the kingdom vision .2030	Excellence in basic sciences education and their applications
1.2.1Introduce new doctoral programs in mathematics, physics, chemistry and life sciences 1.2.2Developing a higher diploma program in radiation protection 1.2.3Developing of integrated postgraduates programs 1.2.4Providing scholarships for outstanding students in postgraduate programs	1.2Increasing the number of .postgraduate Programs	
1.3.1Enhancing adherence to quality standards 1.3.2Providing support for academic programs in order to obtain program accreditation 1.3.3Applying for program accreditation to NCAAA 1.3.4Preparing a strategic/operational plan for the college	1.3Achieving academic accreditation for the college programs nationally and internationally	
1.4.1Improving the academic achievement of students 1.4.2Motivating creative and distinguished students 1.4.3Enriching extra-curricular activities 1.4.4Activating academic, psychological and vocational counseling services 1.4.5Enhancing the use of technology and its means to contribute to the development of teaching skills	1.4Providing student-centered education	

Executive projects	Sub-goal	main strategic goal	
<p>2.1.1Diversifying financial resources of scientific research internally and externally</p> <p>2.1.2Strengthening the scientific research infrastructure of the scientific departments with a focus on female students</p> <p>2.1.3Focus on the following research areas: food security, advanced materials, energy, health</p> <p>2.1.5Development of an electronic system for data collection and analysis</p> <p>2.1.6Updating the College website</p>	<p>2.1Providing resources, which support scientific research</p>	<p>Contribute to the development of outstanding scientific research</p>	02
<p>1.2.2Supporting the publishing process in prestigious scientific journals</p> <p>2.2.2Organizing scientific activities at the college and scientific departments level</p>	<p>2.2Enriching outstanding scientific product in the high-ranking scientific</p>		
<p>2.3.1Seeking cooperation agreements and research partnerships</p>	<p>2.3Expanding the fields of cooperation and research partnerships nationally and</p>		
<p>3.1.1Planning of human resources needs</p> <p>3.1.2Attracting outstanding and highly qualified faculty based on department needs</p> <p>3.1.3Applying the performance evaluation system to faculty and staff members of the department, and linking the results of assessment, development and motivation</p> <p>3.1.4Scholarships to international top 300 universities according to Shanghai ranking</p>	<p>3.1Developing human resources recruitment system</p>	<p>Lifelong development of human resources</p>	03
<p>3.2.1Supporting the participation of faculty and staff members of the Department of Biological Sciences in conferences, seminars and training programs</p>	<p>3.2Developing faculty and staff abilities</p>		

Executive projects	Sub-goal	main strategic goal	
4.1.1Developing research participation and innovation for students at the college level 4.1.2Encourage the registration of patents from research results and transfer them to marketable products	4.1Promoting innovation, creativity and entrepreneurship	Transferring and indigenization of technology and its	04
5.1.1Continuous updating of all programs in partnership with the public and private sectors labor market needs 5.1.2Training students in partnership with the private and public sectors 5.1.3Directing some research towards surrounding environmental issues 5.1.4Organizing public awareness lectures and participating in events to serve community issues	5.1 Developing community engagement programs	Enhancing community engagement that will lead to mutual enrichment	05
5.2.1Providing research studies and consultations 5.2.2Conducting paid scientific training courses	5.2Opening investment channels		



- 01 Establishment of a follow-up committee to implement the strategic plan of the College: Establishment of a follow-up committee supervised by the Dean of the College, and has memberships of the subordinate units' coordinators to follow-up the implementation and evaluation of the Strategic plan in coordination with the Strategic Planning Department, and take appropriate decisions towards problems prevents effective implementation
- 02 Preparing the College's Operational Plan: Preparing the College's Operational Plan that outlines the time frame and procedures related to the implementation of the various projects of the College, the parties responsible for them, and appropriate performance indicators
- 03 Formulation of college units for strategic direction: All units of the College (agencies, departments, and administrations) are required to formulate their strategic orientation according to the strategic plan of the College and the University
- 04 Creating the operational plans related to the units of the College: the units of the College are involved to prepare their detailed operational plans harmonized with the operational plan of the college
- 05 Preparing the financial budget for the executive projects: Preparing an estimated budget for the various projects of the college according to restrictions set by the Strategic Planning administration
- 06 Executive Project Management: The units belong to the college manage the executive projects related to preparation technical study, providing material and human resources, taking organizational actions, and making plans, and follow up the extent to which these projects have achieved their specific objectives and evaluate them according to the accepted performance's indicators
- 07 Preparing periodic and annual reports: The units belong to the college monitor data and information related to the performance's indicators continuously within the strategic plan information system of the university, enabling the college's units to prepare periodic and annual reports related to the implementation of its strategic and operational plan
- 08 Distributing the culture of strategic planning among the College's employees: the College (in coordinate with the Strategic Planning administration) adopts a progressive program to guarantee that its leaders and employees have continuous awareness of preparation and implementation the Strategic and operational plans, that will insure their effective participation in the implementation process to achieve the objectives of the plan efficiently and effectively





Appendix

Appendix 1: Terminology

Appendix 2: Fundamental Quaternary Analysis
Factors - SWOT

Appendix 3: The intersection of executive projects
with the Strategic goals



Innovation: the creation and development of new meaningful ideas.

The stimulating environment: All the elements that encourage university employees to advance their performance.

Excellence in education and scientific research: exclusivity and excellence in the field of education and scientific research, which adds value to the university and society.

Community engagement: A two-way relationship, in which the University provides service to stakeholders

Community Partnership: A two-way relationship between the university and the community, achieved for enrichment Alternatives.

Critical issues: key challenges affecting the university's interests, mission, And its processes, outputs and associated stakeholders.

Human competencies: Individuals who have acquired the knowledge, skills and abilities that qualify them to practice their jobs proficiently.

Community: human groups at the local, national or international level or all of them.

EXECUTIVE PROJECT: A set of interrelated activities using available materials to achieve certain achievements within a specific time, which contributes to the achievement of strategic goals.

Human Resources: University staff and faculty.

strength point

- 01 Availability of multiple and advanced teaching and learning resources and important tools including the college library, black Board, Banner
- 02 Learning objectives and standards are clear and declared for students
- 03 Provides master's programs that allow students to complete their graduate studies
- 04 The availability of advanced laboratories for teaching and research
- 05 Advantage of employing some technicians who are under contract system and have high experience
- 06 Clarity of the administrative structure of the college and supported by the management of administrative transactions-Sharek
- 07 Provide excellent human resources from faculty staff with multiple specialist and commitment to job ethics
- 08 Raise awareness of quality requirements in teaching and learning
- 09 The presence of good scientific publication in term of quality and quantity
- 10 Having good training programs suitable for faculty and staff
- 11 The satisfaction of faculty members with the technical services and educational needs of the faculty
- 12 Provides databases for periodical journals in different specialties
- 13 Appropriate response from the administration to the requests of employees of the college
- 14 Provides distinctive e-services
- 15 Raise awareness of quality requirements in teaching and learning
- 16 Dealing fairly and transparently among faculty
- 17 Feeling of belonging to college staff
- 18 Incentives in administrative work (committees), scientific research and teaching
- 19 Fair and approved policies and procedures for the transfer of students between the various departments of the College

- 20 The four programs are going to apply for program accreditation
- 21 Developing postgraduate programs and higher diploma programs according to the needs of the labor market
- 22 Reducing the administrative work of faculty members
- 23 Introducing interdisciplinary programs (between the departments of the college or departments and other colleges) for the bachelor's degree
- 24
- 25 Provide services and support to gifted students.
- 26 Investing the desire of technicians to train and improve performance.

Weakness points

- 01 The public library lacks the specialization books needed by postgraduate student
- 02 Lack of specialized halls for teaching postgraduate studies and discussing theses
- 03 The weakness of the research facilities of the laboratories in female sections
- 04 Lack of regular maintenance contracts for research instruments to ensure their efficiency throughout the year
- 05 Lack of training courses to run expensive devices to get benefit from them
- 06 Weak infrastructure of some laboratories in the college building and lack of standby generators
- 07 Lack of official technicians and inadequate training
- 08 Weak activation research apparatus and low productivity and maximum utilization of them
- 09 Lack of attendance and contributions of faculty members in community development and partnership programs
- 10 Lack of contracts for community partnerships between the College and the relevant community associations and institutions
- 11 Poor communication with employers, knowledge of their trends and skills required for graduates
- 12 Lack of data to analyze the external environment, and lack of workshops in this regard

- 13 Lack of a mechanism to link the student to community problems and spread awareness to solve them
- 14 Weakness of administrative cadres in writing letters and archiving
- 15 High student / teacher ratio female sections compared to this ratio in male section
- 16 Continuous decrease in graduation rates and decline rates of graduates
- 17 Lack of electronic system / committee for data collection and analysis
- 18 Increase the workload of faculty members
- 19 Weak Website for the college and not update at an appropriate time
- 20 Poor student's knowledge of their rights, duties and grievance procedures
- 21 Weak feeling of importance academic guidance
- 22 The announcement about available student committees and extra-curricular activities is not enough
- 23 Weakness benefit from self-learning sources to course content
- 24 Weak stimulation For the Discerning and Talented student
- 25 Weak feedback for faculty assessment
- 26 The decline of scientific production in the recent period
- 27 Poor training on professional skills for the student before graduation
- 28 Lack and diversity of research funding sources
- 29 Decrease in the rate of employment at the level of Female graduates

Opportunity Points

- 01 The presence of large companies in the Eastern Region, which allows for strategic partnerships
- 02 There is no similar faculty in the area
- 03 Provide opportunities for mutual enrichment between the College and the external environment (centers and bodies) National societies, private sector, etc
- 04 The opportunity of international cooperation between the college and colleges of prestigious universities
- 05 Provide data exchange opportunities between the College and other colleges regarding KPIs for quality files and others
- 06 Establish specialized research centers with investment of laboratory and research equipment available
- 07 Linking the participation of male and female students in community partnership activities with their academic
- 08 performance
- 09 Establishing research cooperation among colleges that bring together compatible disciplines
- 10 Preparing administratives and activating their role in their work of the various committees
- 11 Increased desire for field training programs for students
- 12 Increase the opportunity for distinguished technicians to work with researchers in research projects
- 13 The opportunity of international cooperation between the college and colleges from prestigious universities (to which the scholarship is sent
- 14 Activating knowledge investment through paid training courses
- 15 Utilizing the potential of faculty members in providing skills courses for university employees and community institutions

Threat Points

- 01 Retaining faculty members, administrators and technicians with contracts after gaining the required expertise
- 02 There is no stable financial support for the college for educational, administrative and or research matters, so that appropriate plans and programs can be developed
- 03 Decrease in the number of male students applying for postgraduate studies
- 04 Frequent and extended period of administrative procedures and poor coordination for program implementation and approval
- 05 Lack of interaction and slow sections of the departments to provide the responses and information necessary to respond to the transactions received by the agencies of the college
- 06 Lack of need of the labor market from the current programs
- 07 The expected decrease in the number of students enrolled in the college after the end of the preparatory year
The problem of defaulting students

The intersection of operational projects with strategic objectives

5	4	3	2	1	Enhancing community engagement that will lead to mutual enrichment Transferring and indigenization of technology and its optimum use Lifelong development of human resources Contribute to the development of outstanding scientific research Excellence in basic sciences education and their applications	strategic goals	
						Objectives	Subprojects and projects
				●		1.1Developing teaching programs that qualify alumni for labor market and match the kingdom vision 2030	
		○		●		1.1.1A survey of labor market needs of the disciplines of basic sciences	
				●		1.1.2A benchmarking study in the field of programs and curricula at the department level	
				●		1.1.3Re-structuring the study plans	
		○		●		1.1.4Developing of new programs in light of the labor market need	
		○		●		1.1.5Creating a skills record for students	
	○			●		1.2.1Introduce new doctoral programs in mathematics, physics, chemistry and life sciences	
				●		1.2Increasing the number of postgraduate Programs	
			○	●		1.2.1Introduce new doctoral programs in mathematics, physics, chemistry and life sciences	
				●		1.2.2Developing a higher diploma program in radiation protection	
			○	●		1.2.3Developing of integrated postgraduates programs	
	○	○	○	●		1.2.4Providing scholarships for outstanding students in postgraduate programs	



● Directly related to Goals
○ indirectly related to Goals

Goals
Projects

Enhancing community engagement that will lead to mutual enrichment	Transferring and indigenization of technology and its optimum use	Lifelong development of human resources	Contribute to the development of outstanding scientific research	Excellence in basic sciences education and their applications	strategic goals	Objectives Subprojects and projects
5	4	3	2	1		
				●	1.3	Achieving academic accreditation for the college programs nationally and internationally
				●	1.3.1	Enhancing adherence to quality standards
				●	1.3.2	Providing support for academic programs in order to obtain program accreditation
				●	1.3.3	Applying for program accreditation to NCAAA
				●	1.4	Providing student-centered education
				●	1.4.1	Improving the academic achievement of students
				●	1.4.2	Motivating creative and distinguished students
○				●	1.4.3	Enriching extra-curricular activities
		○		●	1.4.4	Activating academic, psychological and vocational counseling services
				●	1.4.5	Enhancing the use of technology and its means to contribute to the development of teaching skills

Enhancing community engagement that will lead to mutual enrichment	Transferring and indigenization of technology and its optimum use	Lifelong development of human resources	Contribute to the development of outstanding scientific research	Excellence in basic sciences education and their applications	strategic goals
5	4	3	2	1	Objectives Subprojects and projects
	○		●		2.1 Providing resources, which support scientific research
	○		●	○	2.1.1 Diversifying financial resources of scientific research internally and externally
	○		●		2.1.2 Strengthening the scientific research infrastructure of the scientific departments with a focus on female students
			●		2.1.3 Focus on the following research areas: food security, advanced materials, energy, health
○			●	○	2.1.4 Developing research participation and innovation for students at the college level
			●		2.2 Enriching outstanding scientific product in the high-ranking scientific journals
	○		●		1.2.2 Supporting the publishing process in prestigious scientific journals
		○	●	○	2.2.2 Organizing scientific activities at the college and scientific departments level
			●		2.3 Expanding the fields of cooperation and research partnerships nationally and internationally
	○	○	●		2.3.1 Seeking cooperation agreements and research partnerships
		●			3.1 Developing human resources recruitment system
	○	●			3.1.1 Planning of human resources needs
		●			3.1.2 Attracting outstanding and highly qualified faculty based on department needs
		●		○	3.1.3 Applying the performance evaluation system to faculty and staff members of the department, and linking the results of assessment, development and motivation
		●	○	○	3.1.4 Scholarships to international top 300 universities according to Shanghai ranking

Enhancing community engagement that will lead to mutual enrichment	Transferring and indigenization of technology and its optimum use	Lifelong development of human resources	Contribute to the development of outstanding scientific research	Excellence in basic sciences education and their applications	strategic goals	Objectives Subprojects and projects
5	4	3	2	1		
		●			3.2	Developing faculty and staff abilities
○	○	●	○	●	3.2.1	Supporting the participation of faculty and staff members of the Department of Biological Sciences in conferences, seminars and training programs
	●				4.1	Promoting innovation, creativity and entrepreneurship
○	●		○		4.1.1	Encouraging patents from research results and converting them into marketable products
	●	○	○		4-1-2	Maximizing the utilization of the research equipment and training on it
●					5.1	Developing community engagement programs
●				○	5.1.1	Continuous updating of all programs in partnership with the public and private sectors labor market needs
●		○		○	5.1.2	Training students in partnership with the private and public sectors
●			○		5.1.3	Directing some research towards surrounding environmental issues
●		○			5.1.4	Organizing public awareness lectures and participating in events to serve community issues
●					5.2	Opening investment channels
●	○	○			5.2.1	Providing research studies and consultations
●	○				5.2.2	Conducting paid scientific training courses



09 COLLEGE OF SCIENCE

Prepared and revised by

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