



College of Engineering

Highlights on the

Strategic Plan III

College of Engineering

1439 - 1444 H

2018 - 2023 G

Towards Excellence in Engineering Education, Scientific
Research and Community Services

July 2018 G

Third Strategic Plan Committee

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Overview

The College of Engineering (COE) is the first college in King Saud University that prepared its strategic plan (1427-1432H / 2007-2011), and thus became one of the first colleges to determine its future strategic direction. The efforts of the College continue to excel and lead at the level of local and regional universities in teaching, learning, scientific research and community service. It has an active role in distinguishing the university in research through obtaining patents and awards at the national, regional and global levels, in addition to scientific publication, distinguished in quality and quantity, in international scientific journals.

The College provides a model environment for students to develop innovative thinking skills, creativity and self-confidence through initiatives and projects that support and complement study plans. The College also promotes students' self-learning skills in various ways, such as developing contemporary methods of teaching a number of general courses, and focusing on field visits as part of the learning process. In addition, the College offers many motivational initiatives for outstanding students such as student care programs, internship programs and honoring outstanding graduation projects.

The College received academic accreditation from ABET from September 2009 until September 2022 in the following B.Sc. programs: Civil Engineering, Electrical Engineering, Mechanical Engineering, Industrial Engineering, Petroleum Engineering, Natural Gas and Chemical Engineering. The College's programs have also acquired the national academic accreditation from ECC-HES for seven years from 2016 to 2023. The college has been also satisfying the requirements of ISO in the quality management (ISO 9001: 2008) since 2008.

The changes that have been occurred since the development of the College's first strategic plan have necessitated the revision of the plan according to University's strategic objectives and the changes that have taken place in the college's working environment. Regardless, the college of Engineering is distinguished by research and education. The College will continue to be a pioneer and one of the best engineering colleges in the region. Therefore, the second strategic plan of the College (1432-1438H / 2011-2017) was developed for the purpose of setting goals and priorities for the period until 1438 AH (2017) in order to achieve excellence in education, engineering research and community service.

As a result of the completion of the implementation period of the College's Second Strategic Plan (1432-1438H) and in conjunction with the announcement of the vision of Saudi Arabia 2030 and the promulgation of the National Transition 2020 Program for a number of government agencies, a committee was formed to update the strategic plan of the College, (2/3/1438H) under the supervision of the Vice Dean for Development and Quality, and representatives of all departments of the College. The mission of this committee is to update the strategic plan of the college, including vision, mission, strategic objectives, initiatives (or programs) and key performance indicators (KPIs) according to the vision of Saudi Arabia 2030 and the vision of King Saud University KSU2030.

In addition, the Dean of the Deanship of Development and Quality addressed the college to update its strategic plan in his letter No. 135153/60/4 dated 4/4/1438H. The strategic plan of the College is considered as a supporting plan in the implementation of the strategic plan of the University KSU2030.

This document provides highlights on the Third Strategic Plan of the College of Engineering (1439-1444H, 2018-2023G).

Vision, Mission And Values Governing the COE Third Strategic Plan

Vision

To be a world class college and a pioneer in engineering education, innovative research and building knowledge community

Mission

To provide high quality education programs that address the changing needs of future engineers, serve the profession and contribute to the advancement and well-being of the society by creating and disseminating knowledge and technology to future generations through teaching, research and partnership with industry and government.

Values

1. To excel at what really matters, and to aspire to the needs of society.
2. To treat individuals with dignity and respect: to judge without partiality critique without contempt, and encourage without reserve.
3. To value diversity and support – hearten and promote – creativity

Plan Execution Period

The time period for executing this strategic plan is five years from June 2018 to June 2023 (Shawwal 1439 to Shawwal 1444H). All units of the college will participate in executing this strategic plan to fulfill the college vision, mission and strategic objectives.

Strategic Objectives

- 1- Provide Distinguished and Accredited Academic Programs that Meet Development Requirements and the Needs of the job Market According to the Vision of the Kingdom of Saudi Arabia 2030.
- 2- Prepare Competitive Engineers at both National and International Levels.
- 3- Provide Attractive and Stimulating Work Environment for Teaching Staff and Researchers.
- 4- Guide the Scientific Research System to Meet the Needs of Development, and to Create New Economic Opportunities.
- 5- Expand Partnership with Government Agencies, Academic Institutions and Industry to Strengthen Sources of Support and Funding.
- 6- Improve the Quality of Support Services Related to Human Resources and Facilities.

The First Strategic Objective

Provide Distinguished and Accredited Academic Programs that Meet Development Requirements and the Needs of the job Market According to the Vision of the Kingdom of Saudi Arabia 2030.

Main Key Performance Indicator: Percentage of programs that maintain national and international accreditation requirements at the end of each semester

No.	Initiative	Key Performance Indicator
1	Provide requirements for academic accreditation and quality assurance.	• Number of programs that maintain international accreditation requirements at the end of each semester. • Number of programs that maintain national accreditation requirements at the end of each semester.
2	Continuing development of academic programs in cooperation with the industrial sector and related parties.	• Number of programs developed in cooperation with the industrial sector and related parties.
3	Enhance aspects of excellence in academic programs.	• Number of courses developed to enhance the skills of continuous learning and dealing with contemporary technologies.
4	Developing distinguished graduate programs in line with the vision of the Kingdom of Saudi Arabia 2030	• Percentage of published research of Master's and PhD thesis aimed at the vision of the Kingdom 2030

The Second Strategic Objective

Prepare Competitive Engineers at both National and International Levels.

Main Key Performance Indicator: Percentage of college graduates who have taken up positions in their majors or enrolled in national or international postgraduate programs after three months of graduation.

No.	Initiative	Key Performance Indicator
1	Support and develop the system of students' academic guidance.	- Percentage of student cases presented to the student guidance committees in the departments, which were processed during the regular period. - Number of general guidance lectures for college students.
2	Attract outstanding students to undergraduate and postgraduate programs and maintain them.	- Percentage of bachelor students who completed the program within the specified period and at a cumulative GPA of not less than 3.75 of 5.0 - Percentage of postgraduate students who completed the program within the specified period and at a cumulative GPA of not less than 4.5 out of 5.0 - The number of students enrolled in the college annually within the best 10% of the first common year. - The proportion of students enrolled in the graduate programs of the college each year who graduated from the first 500 universities according to Shanghai university ranking.
3	Develop the practical training to ensure the achievement of its objectives.	- Percentage of practical training cases with a certified practical training program. - The level of student performance according to the evaluation of the training institution.
4	Enhance students' creativity, initiative, leadership, and self-development capabilities.	Percentage of students who have a skills record each semester.

The Third Strategic Objective

Provide Attractive and Stimulating Work Environment for Teaching Staff and Researchers.

Main Key Performance Indicator: Measuring the satisfaction of the beneficiaries with the College's laboratory equipment and research capabilities.

No.	Initiative	Key Performance Indicator
1	Marketing aspects of excellence in college.	• Number of visits to the College's website. • Number of faculty members' participation in activities outside the university (national and international). • Number of activities held inside the College for non-university entities.
2	Develop and make available all the laboratory and research facilities and facilities to the faculty staff.	• Measuring the degree of satisfaction of beneficiaries regarding the laboratory and research capabilities.
3	Achieving balance in the teaching, research, administrative and community services of the teaching staff.	• Achieving the following equation: $0.6 \leq (\text{Teaching Load} + \text{Committees Equivalent Load} + \text{Office Hours}) \leq 0.8$
4	Raising the level of services provided in the college.	• Measuring the degree of satisfaction of beneficiaries regarding the services of the College.

The Fourth Strategic Objective

Guide the Scientific Research System to Meet the Needs of Development, and to Create New Economic Opportunities.

Main Key Performance Indicator: Percentage of multidiscipline research with external parties addressing problems directly related to Saudi Arabia.

No.	Initiative	Key Performance Indicator
1	Supporting research projects consistent with the vision of Saudi Arabia 2030	Percentage of research projects supported by industry.
2	Attracting and increasing the number of graduate students and postdoctoral researchers.	- The ratio of the number of postgraduate students to the number of bachelor students. - Percentage of postdoctoral researchers to the number of faculty members.
3	Marketing research experiences and laboratory services for the beneficiaries from outside the College.	- Degree of satisfaction of beneficiaries with the laboratory and research capabilities of the college. - Annual updating and publishing inventories of equipment and research-related records. - Percentage of laboratories that served beneficiaries outside the college.
4	Encourage and support joint research between departments, colleges and external bodies.	- Percentage of joint research to the total number of research in college. - Percentage of postgraduate theses supervised by supervisors from different departments / colleges / others. - The percentage of joint research with external parties dealing with problems directly related to Saudi Arabia.

The Fifth Strategic Objective

Expand Partnership with Government Agencies, Academic Institutions and Industry to Strengthen Sources of Support and Funding.

Main Key Performance Indicator: Number of active partnership agreements with external parties.

No.	Initiative	Key Performance Indicator
1	Marketing the College's activities to government agencies, academic institutions and industry.	• Number of activities designed and announced with bodies outside the university. • Number of service requests based on information from the college's website.
2	Communicate with college graduates to enhance their affiliation to the college and benefit from their experience.	• Number of annual meetings with the college alumni. • Annual number of activities conducted by the college alumni. • Growth rate in the attendance of the annual alumni gathering.
3	Manage and develop the training and consultancy services provided by the College to increase its financial resources.	• Percentage of faculty members involved in outside-college consultations. • Annual number of training courses implemented by the college for outside beneficiaries.
4	Building partnerships in areas consistent with Saudi Arabia 2030 Vision.	• Number of active partnerships with external parties.

The Sixth Strategic Objective

Improve the Quality of Support Services Related to Human Resources and Facilities.

Main Key Performance Indicator: Satisfaction of faculty members with support services provided by the college.

No.	Initiative	Key Performance Indicator
1	Preparation of the administrative and technical support team.	• Annual percentage of enrolled administrative support team members in the college in training courses.
2	Raising awareness on safety, security, and risk prevention regulations.	• Number of recorded safety incidents occurring annually in the college.
3	Raise the efficiency of administrative processes.	• Percentage of completed administrative operations automation within the college annually. • Maintain administrative accreditation (ISO).
4	Manage spaces effectively for learning, work and entertainment.	• Number of positive development changes completed in the college building.



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