



# COLLEGE OF ENGINEERING AND TECHNOLOGY

# STRATEGIC PLAN

2021 - 2026





# DEAN'S WORD

## Letter from the Dean of the College

*On behalf of all faculty members and each member of the College of Engineering and Technology, I am pleased to present the new strategic plan of the College of Engineering and Technology (2021-2026), where the College affirms its commitment to its vision and mission emanating from the vision and mission of the Academy, to prepare distinguished cadres by providing a distinguished educational environment and advanced scientific material to serve the community and industry in addition to attracting Distinguished academic cadres capable of outstanding scientific and research giving, which is based on creativity and innovation to keep pace with the needs of the labor market with international standards for the quality of education.*

*The strategic plan of the Faculty of Engineering and Technology - Abu Qir - Alexandria is the third strategic plan that is being prepared to complement the previous efforts and an extension of the previous strategic plans, (2010-2015) and (2016-2021), which came as a good fruit for the active participation of all concerned parties inside and outside the college. To collect and analyze information for several months, with the participation of many faculty members and community parties in all disciplines and functions, to set the goals that we jointly aspire to reach to maximize the role played by the college in the local, regional, and global levels in the fields of education, scientific research, and community service.*

*All those wishes stuck in our minds, we will achieve them, God willing, together, each in his place. I also extend my thanks and greetings to the college family and stakeholders for their efforts to accomplish this work by holding meetings, questionnaires, and workshops to prepare this plan.*

*Akram Soliman*

Prof. Akram Soliman Elselmy

Dean of the College



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*“Trying to maximize the role played by the college at the local, regional, and global levels in the fields of education, scientific research, and community service”*

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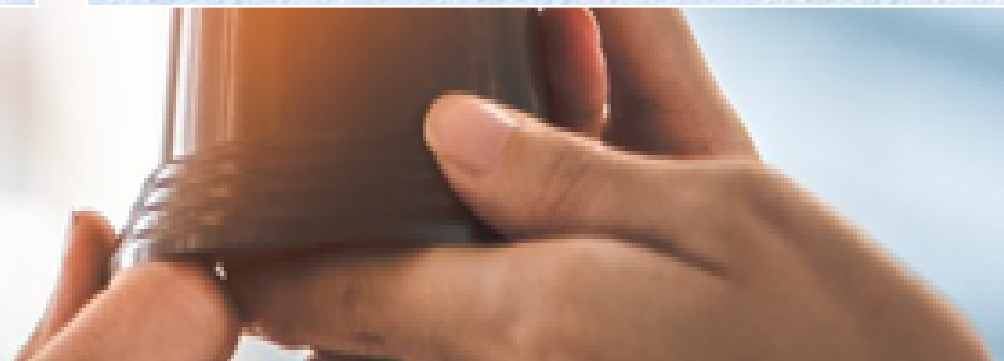


### MISSION

*The college strives to provide distinguished engineering education and scientific research that keeps pace with technological developments and scientific variables in order to achieve sustainable development in the local, regional and international community, through the effective application of quality standards and the implementation of continuous improvement plans, while committing to the professional ethics and engineering work charter.*

### VISION

*Pioneering in building an engineering knowledge society with distinguished scientific and technological capabilities, characterized by innovation and creativity, and keeping pace with the changing needs of the labor market and the requirements of sustainable development, by providing a high level of quality in education, training, scientific research, and community service in accordance with international standards.*



# CORE VALUES



1. *Mutual Respect and Appreciation of Employees and Students.*
2. *Innovation and Creativity.*
3. *Strong ties with Community.*
4. *Dedication and Commitment.*
5. *Ethical Engineering Profession.*
6. *Openness to Internationalization.*
7. *Arab Identity.*
8. *Quality Teaching and Learning Environment.*
9. *Decentralization and Authority Delegation.*
10. *Teamwork and Cooperation.*



# GOAL ONE

## *Excellence in Engineering Teaching and learning*



### Objective 1

*Developing the capabilities of faculty and support staff*

#### Strategies

1. Developing training courses according to faculty and support staff's needs and requirements.
2. Encouraging faculty and staff to rare specialties research.

#### Performance Indicators

1. New training course yearly.
2. Cooperation and collaboration with national and international universities to enhance faculty scientific and research experiences

### Objective 2

*Developing educational programs and curricula in accordance with the needs of the labor market locally and internationally*

#### Strategies

1. Improving educational programs and curricula according to labor market needs in the future.
2. Studying Internal and external parties' feedback.
3. Improving practical contents of the courses.

#### Performance Indicators

1. Analyzing the questionnaires of industry advisory committee.
2. Analyzing external auditor reports.
3. Feedback from experienced faculty members.
4. Analyzing students' feedback.
5. Update laboratory experiments.
6. Upgrading laboratories' equipment and instruments



# GOAL ONE

## Excellence in Engineering Teaching and learning

### Objective 3

*Promote and develop teaching and learning strategies*

#### Strategies

1. Enhancing the online educational system.
2. Adoption of self-learning strategies



#### Performance Indicators

1. Upgrading the college infrastructure.
2. Organizing e-learning and online educational workshops for both faculty members and students.
3. Organizing national and international contests or competitions

### Objective 4

*Develop students' skills and prepare them for the labor market Skills*

#### Strategies

1. Improving scientific field trips programs.
2. Encouraging students Expanding national and international contests and competitions.
3. Expanding training opportunities nationally and internationally.
4. Encouraging students to participate in different activities.

#### Performance Indicators

1. Number of scientific field trips each semester.
2. Number of competitions per semester.
3. The number of trainees each year.
4. Number of students in student exchange programs.
5. Number of students' activities each semester.



# GOAL TWO

## Enhancing the College's Institutional Capacity

### Objective 1

*Developing of Physical and financial resources*

#### Strategies

1. Improving laboratories' equipment and instruments
2. Improving the efficiency and capacity of educational buildings and entities.
3. Updating the network and internet infrastructure.
4. Expanding offered training courses.
5. Broadening engineering consultancy for both



#### Performance Indicators

1. Following up on the execution plan of laboratories improvement
2. Following up on the execution plan for educational buildings' efficiency and capacity.
3. Counting the wired and wireless points of computer networks.
4. Number of training courses per academic year.
5. Number of engineering consultancies.

### Objective 2

Developing and updating the capabilities of members of the administrative staff

#### Strategies

1. Developing the training courses to fulfill needs of administrative staff.
2. Improving administrative staff evaluation methods.
3. Maximizing the training course outcomes

#### Performance Indicators

1. Following up on the execution plan of administrative staff training.
2. Analyzing administrative staff evaluation statistics results.
3. Analyzing administrative staff training outcomes.





# GOAL TWO

## Enhancing the College's Institutional Capacity



### Objective 3

*Renewal of national and international accreditations*

#### Strategies

1. Renewing Supreme Council of Universities accreditations.
2. Renewing NAQAAE accreditation.
3. Renewing ABET accreditation.
4. Renewing RIBA accreditation.

#### Performance Indicators

1. Preparing and reviewing annual accreditation files.
2. Reviewing the annual auditing reports.
3. Reviewing assessment reports of educational outcomes.

### Objective 4

*Supporting various activities to ensure the quality of the educational process*

#### Strategies

1. Maintaining internal and external audits to review curricula and educational programs.
2. Quality Assurance internal auditing on national and international accreditation requirements.
3. Organizing seminars and training courses to raise awareness of college quality procedures.

#### Performance Indicators

1. Discuss auditing reports within department council meetings.
2. Discuss auditing reports within college council meetings.
3. Improving awareness of both faculty and staff members of the college's quality procedures and activities.





# GOAL THREE

## *Excellence in Postgraduate Studies and Scientific Research*

### Objective 1

*Strengthening and developing postgraduate programs*

#### *Strategies*

1. *Introducing new programs suitable for real-life jobs.*
2. *Evaluating internal and external parties' feedback.*
3. *Developing postgraduate curricula*

#### **Performance Indicators**

1. *Evaluating the questionnaires of industry advisory committee.*
2. *Analyzing external auditors' reports.*
3. *Feedback of experienced faculty members.*
4. *Evaluating students' feedback.*
5. *Upgrading laboratories' facilities.*

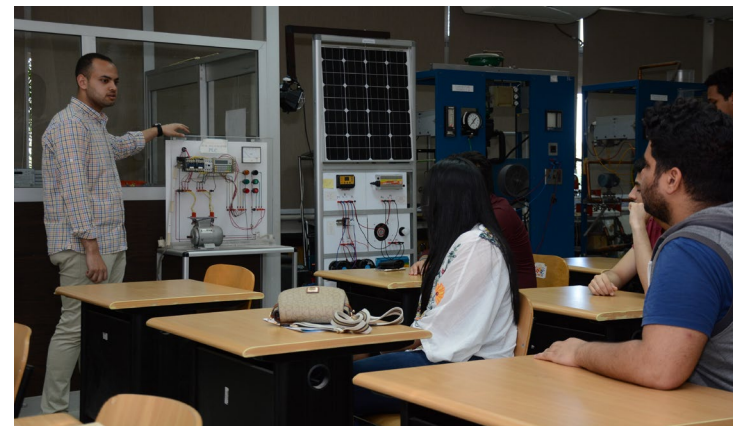


### Objective 2

*Encouraging the dissemination of distinguished applied scientific research*

#### *Strategies*

1. *Awarding excellent research.*
2. *Organizing awareness seminars for faculty and supporting staff on publishing in journals and conferences.*
3. *Designing and implementing journals and conferences database.*
4. *Raising the intellectual property rights awareness.*

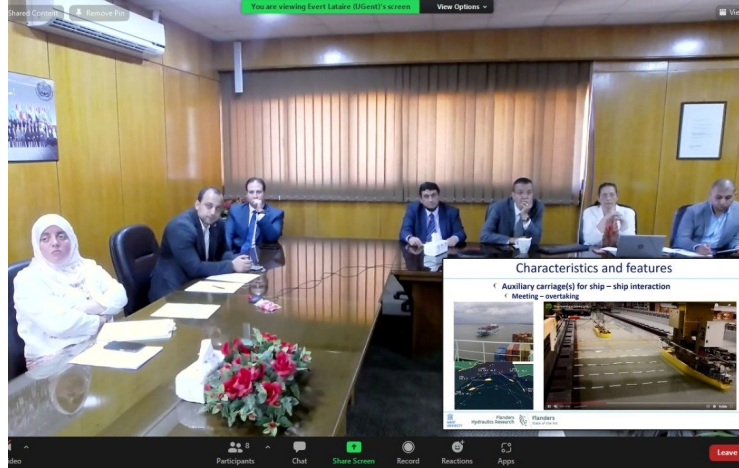


#### **Performance Indicators**

1. *Statistical analysis of the number of annual awards.*
2. *Statistical analysis of the annually organized seminars.*
3. *Updating journals and conferences database.*
4. *make intellectual property rights available online.*

# GOAL THREE

## Excellence in Postgraduate Studies and Scientific Research



### Objective 3

*Developing research plans in accordance with the requirements of scientific research locally and globally*

#### Strategies

1. Developing the college research plan.
2. Evaluating internal and external parties' feedback.
3. Focus on excellent and state-of-the-art research points.
3. Relate the scientific research to the industry requirements

#### Performance Indicators

1. Evaluating research areas and topics, and highlighting excellent research.
2. Analyzing internal and external questionnaires.
3. Applying scientific research to industry or specialized firms.

### Objective 4

*Encouraging innovation and creativity*

#### Strategies

1. Upgrading laboratories' facilities to support specific rare area research.
2. Organizing scientific research funding seminars.
3. Participating in various annual innovative research competitions.

#### Performance Indicators

1. Statistical analysis of the new laboratories, equipment, and facilities dedicated to scientific research.
2. Statistical analysis of research funding seminars.
3. Statistical analysis of research competitions participations.





# GOAL THREE

## Excellence in Postgraduate Studies and Scientific Research

### Objective 5

*Funding research projects from national and international institutions and research centers*

### Strategies

1. Adding new cooperation protocols with funding institutions and research centers.
2. Encouraging funding and international competition participation.

### Performance Indicators

1. Statistical analysis of the annual protocols.
2. statistical analysis of annual funds



# GOAL FOUR

## Long-Lasting International Cooperation with Regional and International Educational Institutions

### Objective 1

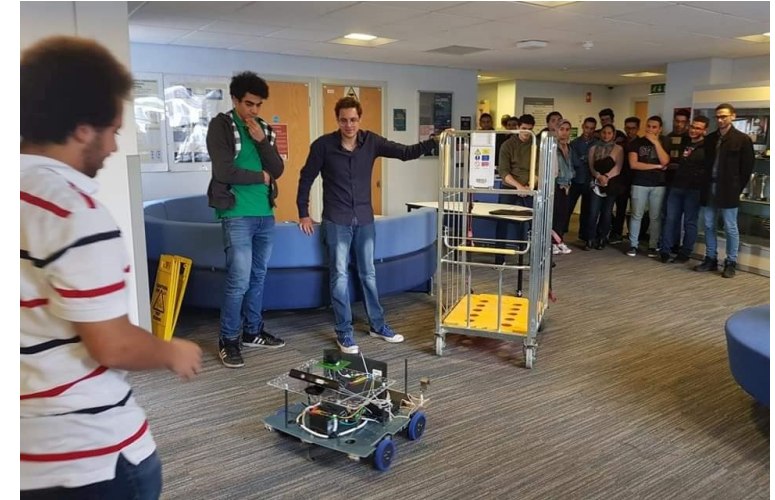
*Expansion of protocols and partnerships with educational institutions*

#### Strategies

1. Partnership and new protocols with regional and international educational institutions.
2. Raising awareness of current protocols and joint programs.

#### Performance Indicators

1. Number of annual partnerships and protocols yearly.
2. Updating the college protocols and partnerships on website.



### Objective 2

*Providing various training and study opportunities for students abroad, as well as student exchange*

#### Strategies

1. Expanding protocols with regional educational institutions for student training and exchange.
2. Expanding protocols with international educational institutions for students' training and exchange.

#### Performance Indicators

1. Number of annual training protocols yearly.
2. Number of students in regional and international training yearly.
3. Number of students' exchange yearly.



# GOAL FOUR

## *Long-Lasting International Cooperation with Regional and International Educational Institutions*

### Objective 3

*Supporting joint scientific research, and joint supervision of scientific theses with prestigious national and international universities*

### Strategies

1. Partnership and protocols with joint scientific research institutions regionally and internationally.
2. Encouraging publishing of scientific researches with various scientific research institutions.

### Performance Indicators

1. number of annual joint research publications.
2. number of annual joint theses.



# GOAL FIVE

## *Enhancing Community Participation and Environmentally Sustainable Development*



### Objective 1

*Maintain effective links with the industrial and commercial communities*

#### *Strategies*

1. *Enhancing protocols and cooperation with community engineering and industrial entities.*
2. *Participation of industry experts with the college's industry consultancy council*

#### **Performance Indicators**

1. *Number of annual engineering consultancy protocols.*
2. *Number of experts attended the industry consultancy council*

### Objective 2

*Develop cooperation with public and governmental institutions*

#### *Strategies*

1. *Designing a marketing plan for the college's engineering consultancy center's available services.*
2. *Maximizing benefits for faculties' experiences in engineering consultancy.*

#### **Performance Indicators**

1. *Number of consultancy services offered.*
2. *Number of faculty members participating in consultancy services.*





# GOAL FIVE

## Enhancing Community Participation and Environmentally Sustainable Development

### Objective 3

*Continuing to serve the community and the surrounding environment to achieve the goals of sustainable development (SDGs)*

#### Strategies

1. Improving the marketing plan for various college services.
2. Increasing awareness of community services and environmental activities.
3. Enhancing environmentally sustainable development services for the local community.
4. Organizing awareness seminars of community services.

#### Performance Indicators

1. Number of annual college services offered for environmental development and community services.
2. Number of awareness seminars.



### Objective 4

*Increase communication links between graduates and the labor market*

#### Strategies

1. Enhancing Alumni bond.
2. Planning graduates' communication facilities.
3. Organizing employment events.
4. Organizing courses and workshops targeting college graduates.

#### Performance Indicators

1. Designing, implementing, and updating the alumni database.
2. Number of employment events.
3. Number of annual courses, events, and workshops.

# PLAN TEAM



## *College of Engineering Strategic Plan Preparation Team 2021-2026*

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Advisor to the President for Scientific Affairs

**Prof. Abdel Moneim Nasser,**  
Director of the Academy's Port Said Branch