



The Research Plan of the Faculty of Engineering Mansoura University

2020 - 2023

Introduction:

The scientific research plan is considered an important axis of the strategic plan of the Faculty of Engineering as well as in achieving the general vision of the university in the field of scientific research, which aims to:

- Contribute to the development and prosperity of the local community.
- Solve problems facing the industrial sectors in cooperation with the beneficiary supporting institutions.
- Achieve excellence and reaching universality.
- Face the challenges and risks that Egypt suffers from in many areas such as water, energy, environment, traffic safety, etc.

First:

The general policies pursued in this respect and the commitment to the research plans of the university are summarized in the following:

1. Identify research priorities.
2. Identify the areas necessary for research that achieve maximum benefit and solve the problems of the surrounding community.
3. Provide the budget allocated for research activity, whether from the university, external sector, business sector, general non-governmental organizations, or international partnership as follows:



3.1 Announce the sources of funding:

The university's research budget item (9/1) research and experiments.

- University research unit.
- The Egyptian Innovation Fund.
- Higher Council for Science and Technology.
- Science and Technology development fund.
- The Institutions and authorities benefiting from scientific research.
- The contribution of businessmen, NGOs and interested financiers.
- International finance programs.
- Scholarships from international universities.

3.2 Facilitate the procedures and regulations for distributing the research budget.

3.3 Set priorities and hold joint research protocols with different sectors.

4. Adopt a policy of commitment to the internal audit and self-evaluation systems in the faculty.

5. Measure the feedback from the beneficiaries of the research plans in addition to identifying the strengths and weaknesses.

6. Work to achieve measurement of research output using international indicators.

7. Work to obtain achievement standards for research and projects in the time specified for work.



Second:

The procedures followed in preparing the research plan:

1. The Faculty adopts specific policies towards:

1.1 Ensure freedom of research and innovation for faculty and support staff.

1.2 Develop the research skills of faculty members and the supporting staff.

1.3 Create a database of current and published research.

1.4 Ensure the protection of individual property freedom.

2. Pay attention to scientific research by researchers, (faculty members and the supporting staff), scientific departments and the faculty through:

2.1 The development of documented and approved research work plans;

2.1.1 Scientific research plan for each faculty member approved by the scientific departments.

2.1.2 A scientific research plan for each academic council approved by the faculty council.

2.1.3 The development of a scientific research plan for the faculty that includes the partnership of the relevant academic departments approved by the university council.

2.2 Coordination and integration among scientific departments in preparing research plans.

2.3 Commitment to the mechanisms used in the evaluation and acceptance of research.



2.4 Revision of research plans.

Third:

Implementation Mechanisms:

1. Participate in awareness programs for researchers.
2. Hold capacity development programs, gain experience in how to apply for research projects and prepare reports of projects.
3. Promote scientific research, hold meetings, seminars, workshops, and participate in applied research marketing conferences.
4. Encourage and support researchers to innovate, research and write external publication through financial support, certificates, , recognition, and rewards.
5. Participate in the progress of applied and competitive research projects funded locally and internationally.
6. Provide the necessary capabilities, both paper and electronic scientific journals.
7. Implementation of cooperation agreements among the faculty and supporting scientific research institutions locally and internationally.
8. Hold meetings with counterparts at home and abroad in the fields of scientific research and technology using the Internet.
9. Encourage scientific publishing by participating in local and international conferences, international scientific journals, contribute to the cost of attending international conferences, as well as to the cost of publishing in international journals.



Fourth:

The research plan within the strategy of the Faculty of Engineering, Mansoura University includes:

1. The faculty adopts the university's strategy in the fields of scientific research.
2. The faculty adopts the university's strategy in the field of competitive projects.
3. Develop research plans for the academic staff;
 - 3.1 Develop research plans for each academic department.
 - 3.2 Prepare an integrated research plan from the academic departments.
 - 3.3 Prepare an integrated research plan with the university faculties in the environmental fields.

Fifth:

The mechanism of work in projects funded by the Research Account Unit, Mansoura University:

- 5.1 Implementation of procedures for research projects, including:
 - 5.1.1 Inclusion of the research project within the research plans (scientific department, university, Faculty).
 - 5.1.2 Document and approve research plans (Department Council, Faculty Council, Graduate Studies Council and Research)
 - 5.1.3 Determine the amount of funding required.
 - 5.1.4 Control committees, terms of selection and evaluation models.



5.1.5 Project budget (total value, disbursement, settlement payments).

5.1.6 Documentary cycle for projects.

5.1.7 Contracting procedures.

5.2 Fulfillment of application forms for research projects.

5.3 Adopt arbitration models and focus on the opinion of the project and its goal, the research methodology and its plan, the implementation timetable, the available capabilities, the integration of the research team, the required funding, the economic feasibility, and applicability.

Sixth:

The mechanism of work in competitive projects funded by the university (CFP):

- The door is open each academic year for competitive research projects.
- Research areas are determined within the framework of the university's strategic plan.
- A form from the research project (proposal form) is filled out by the applicant and sent by e-mail: muvphe@mans.edu.eg
- Attached to the application form is the economic feasibility of the research project.

Seventh:

The mechanism of work in projects funded by external and local parties:

Applying and working on these funded projects shall be carried out in accordance with the rules set by the financing bodies in cooperation with the Academy of Scientific Research and Technology. - See the website fields



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With the aim of developing research integration within and among scientific departments at the level of specialization locally and regionally, and the mechanisms which encourage faculty members to activate the scientific research system, the characteristics and areas of excellence in the faculty have been identified in scientific research, this requires the following of:

- Research plans for the different departments.
- Review and approval of the department's research plans in the department council.
- Determine the research activity in each section.
- Commitment to the admission system and evaluation of research plans received from the departments and their integration into the research plan system for faculty.
- The applied scientific research marketing system.
- A plan for the needs of the regional community for research activities.

In general, the faculty's research plan aims to achieve the university's mission, which includes: A long-term scientific research plan that contributes to the development and prosperity of the local community and the delta region based on society's need for the university, as a center for consultations and services development, to ensure the quality of scientific research in order to reach universality and recognize the university as a research center with rich capabilities in various fields of scientific research.



Raising awareness of the importance of research, development and innovations and their role in solving problems of industrial establishments, in cooperation with the Egyptian Innovation Fund. The research plan of the faculty is designed to face the challenges Egypt suffers from 2030.

The areas of the research plan for both scientific departments and graduate students allow choosing problems that achieve the objectives of each department and its role towards the external community. The faculty includes the following scientific departments: Department of (Mathematics Engineering and Physics Engineering - Electronics and Communications Engineering - Computer and Systems Engineering - Production Engineering and Mechanical Design - Mechanical Power Engineering - Electrical Engineering - Textile Engineering - Architectural Engineering - Public Works Engineering - Structural Engineering - Irrigation and Hydraulics Engineering).

The areas of the faculty's research plan vary in the following axes:

- Academic research areas.
- Applied interdisciplinary research areas among scientific departments.
- Applied research fields among university faculties.