

JERASH UNIVERSITY
Faculty of Engineering



جامعة جرش
كلية الهندسة



Faculty of Engineering

Strategic Plan

2021-2022



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1. Introduction

The College of Engineering at Jerash University, through its strategic plan, seeks to be one of the leading colleges at Jerash University in the field of university education, scientific research and community service. It also seeks to excel by relying on the academic staff, which represents an integrated mixture of knowledge, science and research to prepare graduates in various engineering disciplines who are competent and able to compete in the local and regional labor markets and are qualified to pursue their learning and professional development, which contributes to supporting and supplementing the national economy and sustainable development.

2. Overview faculty of engineering

The faculty of engineering was established in 2007. It mainly consists of three departments: The Civil Engineering Department, the Architectural Engineering Department, and the Communications and Electronics Engineering Department, where the academic plan is designed according to quality requirements and accreditation standards, as the program has obtained general and special accreditation from the Ministry of Higher Education. The college's engineering laboratories and workshops are equipped with the latest devices and equipment that meet academic and



research requirements with the aim of raising the level of the educational process and keeping pace with every progress. Because our vision is to stimulate the uptake of advanced engineering technology in civil engineering, communications, electronic engineering and architecture and to contribute to the local community and the industrial sector with interdisciplinary scientific research for practical application.

Teaching system:

The university year consists of two compulsory semesters of sixteen weeks each, and an optional eight-week summer semester.

The number of credit hours required to obtain a bachelor's degree in civil engineering, communication engineering and electronics is 160 credit hours and in architecture engineering 163 credit hours. The academic quorum for the student at the university is 12 credit hours per semester as a minimum and 18 credit hours per semester as a maximum, and the student may take three additional hours if his average in the previous semester is not less than 80% or in the graduation semester if these hours are necessary for his graduation. A student registered for a bachelor's degree is classified at the academic years level if he successfully completes the credit hours within the study plan as follows:



Academic level	Credit hours
first year	3 – 32
Second Year	33—65
third year	66—98
Fourth year	99—140
Fifth year	141 or more

- The maximum period of study for a Bachelor's degree in Engineering is eight years.

3 .Vision, Mission and Values

Vision

To stimulate comprehension of developed engineering technology in civil engineering and architectural engineering and contribute to the local community, the industrial sector with multidisciplinary scientific researches of practical application.

Mission

- To develop ground-breaking academic programs and integral distinctive researchers to meet the needs of both governmental and private sectors.
- To establish an educational experience inspiring the students to reach the highest level of their academic and personal needs throughout their lives .
- To create an ideal environment enabling the faculty staff and the students from attaining advanced knowledge and engineering skills.



-To procure services supporting the concepts of engineering technology and its applications to reach a better society.

Values

- To establish ground-breaking engineering concepts.
- To comply with the requirements of quality and efficiency.
- To accomplish distinctive academic curricula that meet the needs of the local and regional communities.
- Acquiring an advanced position and great reputation in the educational fields, scientific research and community service.

4. Environmental analysis of the faculty

***Elements of strength**

- 1.The diversity and multiplicity of academic programs in the undergraduate and postgraduate stages.
- 2.The university's distinguished geographical location, as it serves many governorates, and this site attracts students from most of the kingdom's governorates.
3. The existence of programs rarely found in other local universities.
4. The quality of some programs.
5. The good academic standing achieved by the university since its establishment locally and regionally through a number of international conferences, as well as the university's association with a number of cooperation agreements with universities of high scientific reputation.



6. A system for taking care of expatriate students and providing them with appropriate accommodation and care in various fields.
7. The presence of a large number of faculty members with various specializations, and long experience in the fields.

***Elements of weakness**

1. Low university fees compared to other private universities.
2. Weak investment.
3. Lack of periodic training programs for human resources.
4. Insufficient administrative and academic facilities in light of the continuous increase in students.
5. Students' weakness in general in Arabic and English.
6. Lack of an incentive system to encourage creativity and innovation.
7. The weakness of keeping pace with the development of modern teaching and evaluation techniques.
8. Not updating the course content to accommodate what is new in the fields of specialization.
9. Lecture halls are not equipped with modern devices.
10. The absence of a specific policy to link the university with graduates after graduation.
11. The lack of a clear and announced strategic plan at the university, colleges, departments, centers and departments level.



12. The lack of recreational and service facilities for students and workers.

5. Strategic goals

Executive plans	Performance indicators	Responsibility	Time frame
1- Survey of the labor market, its needs, and the desired specializations at the local and regional levels	The percentage of brand players in the survey sample	Dean for Industry Liaison	Two years
2- Seeking to obtain international academic accreditation for all programs	Study the self-evaluation of academic programs	Academic departments	Two years
3- Creating new programs to meet the needs of the local and regional labor market	The number of programs developed and the number admitted to these programs	Academic departments	Two years
4- Preparing classrooms	Number of equipped halls	College / University	Year
5- Training faculty members to use e-learning	Number of qualified faculty members Student opinions survey	Departments + Development and Quality Control Center	Year
6- Computerizing some materials in the college		Departments + Development and Quality Control Center	Year
7- Determining the needs of laboratories and the priority of development	Number of developed laboratories	Departments / College	Year
8- Development of educational laboratories	number of devices	Departments / College	Year
9- Infrastructure development	Research laboratories	College / University	3 years
10- Formation of research teams for each research field	Number of research projects	faculty of school	Year



11- Get supported research	Number of research supported budget	faculty of school	Year
12 - Participation in international scientific conferences	Number of papers published at conferences	faculty of school	Year
13- Holding engineering conferences	Number of conferences Number of projects	Departments / College / University	Year
14- Holding training courses	Income value	University / College	Year
15- It will attract international students within the parallel and international program,	Income value	University / College	Year
16- Transitioning to an electronic college to reduce paper and inks.	Cut costs	the college	Year
17 - Rationalizing energy consumption.	Cut costs	the college	Year
18 - Computerized exams	Cut costs	the college	Year
19- Providing academic and professional counseling	Users number	the college	Year
20 - Encouraging students who are distinguished in science, sports and culture	The number of beneficiaries	the college	Year
21- Encouraging students to participate in community initiatives	Number of initiatives Number of participants	the college	Year
22 - Directing graduation projects for the development of the local community	Number of projects	Departments + college	Year
23- Conducting public lectures in various fields of engineering by industrial and government agencies	The number of lectures number of participants	the college	Year
24- Making leaflets introducing the departments and the	Number of flyers distributed	Departments + college	Year



college			
25- Creating leaflets introducing the laboratory facilities	Number of flyers	Departments + college	Year
26 - Using available local media to market the college	Number of encounters Views	College + Public Relations	Year
27 - Evaluating the level of general safety in the college building	Readiness report	the college	Year
28- Preparing a security and safety plan	Prepare the plan	the college	Year
29 - Holding awareness sessions in the field of public safety	The number of sessions number of participants	Faculty / Entity	Year

7. Scientific research

Improving knowledge as a basis for decision-making on Jordanian society issues, through networking with universities, scientific and research centers, and civil society institutions at the local, regional and global levels.

The first sub-goal

- *Promote scientific research levels in all areas of knowledge and benefit from scientific research allocations in the university budget.
- *Restructuring and developing scientific research support.
- *Establishing directives for material incentives to encourage scientific publication in international scientific journals.
- *Amending the instructions for academic promotion at the university.
- *Providing financial support for research projects to faculty members.



Second sub-goal

- *Concluding agreements with universities and specialized centers locally, regionally and internationally.
- *Creating a database showing the names of the donors, and the dates for applying for grants, especially the Scientific Research Fund, and the European Union programs.
- *Encouraging faculty members to participate in specialized scientific conferences.

Third sub-goal

- *Following up on project encouragement and implementation, and conducting joint scientific research with faculty members inside and outside the university.
- *Organizing scientific conferences and seminars on a regular basis and publishing their works.
- *Reviewing the mechanisms of issuing the Jerash Journal for Research and Studies, and arbitrating the research and studies submitted for publication, with the aim of the quality of scientific research and raising the level of the journal.

Fourth sub-goal

- *Encouraging excellence and creativity among faculty members and students.
- *Establishing instructions for excellence and creativity awards.
- *Organizing workshops related to excellence and creativity.



*Encouraging faculty members to apply for local, regional and international scientific awards.

*Establishing a plan for the detection and sponsorship of creative students.

7. Community service

Contributing to sustainable social development by providing educational, technological, media, research, advisory and volunteer work services in partnership with official institutions, civil society institutions and the private sector.

8. The international

Deepening relations with universities and foreign scientific centers and exchanging experiences in order to achieve the university's future vision.

The first sub-goal

Providing quality services to Arab and foreign students registered at the university

*Various activities

*A cultural day for Arab and foreign students registered at the university

*Dedicating a special page for Arab and foreign students on the university's website

*A welcome meeting with Arab and foreign students at the beginning of the first and second semesters of each academic year



Second sub-goal:

- *Establish a unit to activate external relations and projects.
- *Combine publication in distinguished international scientific journals with an impact factor.
- *Research partnership with universities, centers and individuals who have achieved a global presence in scientific research.