



Zarqa University
Faculty of Engineering
Strategic Plan
2015-2020

Prepared by

Faculty Staff Members



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About the College:

Faculty of Engineering Technology in Zarqa University was established in the beginning of the academic year 2008/2009 where it began with architecture Engineering and civil engineering departments, then it expanded to include the following departments:

- Architecture Engineering started on 2nd Semester 2008-2009
- Civil Engineering started on 1st Semester 2009-2010
- Electrical Engineering started on 1st Semester 2010-2011
- Mechanical Engineering started on 1st Semester 2012-2013
- Power and energy Engineering started on 2nd Semester 2014-2015

The Collage of Engineering is equipped with the latest facilities and equipment such as technical labs, workshops, computer laboratories, and a general research laboratory for the various disciplines.

Since 2008, student enrollment has multiplied in numbers and diversity. The engineering curriculum for many departments is undergoing development and reforms to apply for ABET accreditation in the near future.

تأسست كلية الهندسة التكنولوجية في جامعة الزرقاء في بداية العام الدراسي 2008/2009 حيث بدأت مع الهندسة المعمارية و الهندسة المدنية، ثم توسعت لتشمل الأقسام التالية:

- بدأ قسم الهندسة المعمارية في الفصل الدراسي 2ND 2008-2009
- بدأ قسم الهندسة المدنية في الفصل الدراسي 1ST 2009-2010
- بدأ قسم الهندسة الكهربائية في فصل 1ST 2010-2011

•بدأ قسم الهندسة الميكانيكية في فصل 1ST 2012-2013
•الطاقة والطاقة الهندسية في الفصل الدراسي 2ND 2014-2015 بدأت

وقد تم تجهيز كلية الهندسة بأحدث المرافق والمعدات مثل المختبرات الفنية وورش العمل ومختبرات الحاسوب لمختلف التخصصات ، ومختبر بحثي عام لمختلف التخصصات.
منذ عام 2008، تضاعف الطلاب من حيث الاعداد و البلدان التي أتو منها.

كما تقوم حاليا كلية الهندسة بتطوير المناهج الهندسية بما يتوافق مع معايير الاعتماد الدولي ABET في المستقبل القريب.

Vision

Excellence in providing educational and research services in all areas of engineering and technology so as to contribute in achieving the vision of Al-Zarqa University, which is seeking to develop the local and regional community and economy.

Mission

To prepare well qualified and trained engineers to meet the local and regional technological demands and to conduct engineering research that serves community needs.

Core values:

- Professional
- Responsibility
- justice
- Integrity
- Transparency
- Creativity
- Teamwork

SWOT Analysis

Strengths

1. Diversity and experience of teachers coming from various international universities.
2. Strong support for academic and scientific research.
3. Availability of scholarships for Engineers towards PhD & MS in distinguished universities.
4. Continue to enhance teaching environment by developing curricula and providing all classrooms with recent teaching facilities.

Weaknesses

1. need to improve suitable offices and spaces for some faculties.
2. Weakness of public transport for the university.
3. Need to improve incentives for faculty members such as sabbatical leave to enhance job stability.
4. Need to continue improving class room environment such as air conditioning system in some buildings.
5. Need to improve university policies and benefits systems to be distinguished from competition in attracting and retaining highly qualified faculty members.

Opportunities

1. The existence of a large population centers close to the university.
2. The university is located in close to industrial region which allows collaboration with businesses.
3. Continuous development in Curricula and study programs allows integrating community and employers needed skills.
4. Faculty is highly skilled and have practical and scientific expertise which allow them to engage more with community.

Threats:

1. Instability in policies of the Ministry of Higher Education and Scientific Research, especially with regard to admission policies at universities and others.
2. Tuition fees are high and comparable to the fees of similar programs in neighboring government universities.
3. Market saturation in some disciplines.
4. Dependence on neighboring countries causes the employment of graduated engineers to be affected by the policies of those countries.
5. Local and global economic crisis and its impact on development

Strategic Plan (2015-2020)

Strategic University Goals	CoE Strategic Goals	Actions	2015	2016	2017	2018	2019	2020	Responsibility	Budget	Resources	KPI's
Strategic goal 1: Distinguish graduates in terms of their knowledge and skills to be in line with the latest technological developments and the needs of the labor market.	FO.1: Provide engineering graduates with high quality theoretical and technical skills using latest technological education tools.	1.1: Develop, measure and maintain Program ILO's ¹ and Program Objectives	√	√	√	√	√	√	Department boards & Faculty members		Dean and Faculty members	1. Course Evaluation. 2. Percentage of course files >20% per year. 3. Number of updated text books assigned to courses (not more than 5 yrs old publication) 4. Number of zero defect class rooms. 5. Number of -ve feedbacks from faculty ,staff, and students about class rooms and faculty facilities per semester. 6. Percentage of courses utilizing electronic teaching.
		1.2: Develop course files by all faculty for all curricula courses	√	√	√	√	√	√	Deans Office & Faculty members		Dean and Faculty members	
		1.3: Update text books for engineering courses	√	√	√	√	√	√	Coe Library Committee & University Library	6,000 JD	1. Recent Text Books, online resources, Internet, and models	
		1.4: Improve class room facilities with internet and state of the art technological interactive display devices and laboratory equipment.	√	√	√	√	√	√	CoE Quality Assurance Committee	104,000 JD	1. Technological educational methodology such as data show and digital boards.	
		1.5: Promote use of electronic teaching tools like moodle and ZU e-learning system	√	√	√	√	√	√	Faculty members		Syllabus PP files for chapters HW's and Excersises	
		1.6: Estabilsh new Engineering Programs	√	√	√	√	√	√	Scientific Research Committee		based on market surveys and needs	

1. ILO – Intended Learning Outcomes

Strategic University Goals	CoE Strategic Goals	Actions	2015	2016	2017	2018	2019	2020	Responsibility	Budget	Resources	KPI's
Strategic goal 2: promoting scientific research and increasing its effectiveness and productivity by linking research with community needs in particular with the national development plans.	FO.2: Promote academic and career development of faculty staff members through conducting research, training, and evaluation.	2.1: provide financial support to stimulate scientific research	√	√	√	√	√	√	Deanship of Scientific Research	15,000 JD	Financial support for conducting scientific researchers.	1. Budget spent on research support 2. number of supported research 3. score of scientific value of funded research 4. Number of visits to the college. 5. Number of community activities conducted per year. 6. Number of student projects in partnership with community. 7. Number of faculty participated in trainings. 8. Number of faculty participated in conferences. 9. Number of publications in relation to the funded research research/project.
		2.2: insure scientific value and relation to national needs	√	√	√	√	√	√	Deanship of Scientific Research University committee for scientific research CoE committee for scientific research.		Develop evaluation criteria or scoring system to measure research value	
		2.3: establish relationship with community and industry nationally and internationally	√	√	√	√	√	√	Scientific Research Committee	50,000 JD	Faculty members and Public Relations Unit	
		2.4: establish centers for innovation to attract applied research projects	√	√	-	-	-	-	Scientific Research Committee		Financial resources	
		2.5: direct students' graduation projects to address community needs and industry problems	√	√	√	√	√	√	Scientific Research Committee		Faculty members	
		2.6: Provide efficient training program and conference attendance support for faculty and staff	√	√	√	√	√	√	CoE committee for university and community service CoE scientific research committee	5,000	Dean of Scientific Research	
		2.7: initiate scientific conferences with Zarqa community and industry	√	√	√	√	√	√	Scientific Research Committee	15,000	Faculty members	

Strategic University Goals	CoE Strategic Goals	Actions	2015	2016	2017	2018	2019	2020	Responsibility	Budget	Resources	KPI's	
Strategic goal 3: Achieving academic atmosphere and a university environment that supports academic excellence for university students as well as developing their personality and self expression to gain trust and initiative spirit for social and cooperation efforts and developing a sense of loyalty and patriotism. Also, this environment will promote talents and the expression of creative abilities.	FO. 3: Enhance local, regional, and international exposure of engineering faculty	3.1: Organize and launch a yearly scientific day at the CoE	√	√	√	√	√	√	CoE scientific day committee	2.000	Faculty Scientific Committee and Public Relations	1. Hold at least one career fair day per year. 2. number of signed agreements with universities.. 3. number of workshops and scientific days /events	
		3.2: Launch career fairs in with the construction industry and community	√	√	√	√	√	√	Deanship for students affairs Scientific day committee & KASC at ZU		Faculty Scientific Committee and Public Relations		
		3.3: Initiate engineering symposiums and exhibitions with the industry	√	√	√	√	√	√	CoE activity committee		Faculty Scientific Committee and Public Relations		
		3.4: Establish relations with International universities for student exchange and training program	√	√	√	√	√	√	CoE Council		University President		
		3.5: Support volunteering student-to-student training session in addition to extracurricular faculty-to-students training sessions	√	√	√	√	√	√	CoE activities committee		Faculty Members		
	FO.4: Foster a healthy educational environment for faculty members and students to enrich the learning process	1- Improve educational infrastructure and facilities	1- Improve educational infrastructure and facilities	√	√	√	√	√	√	CoE activities committee			1- budget spent 2- number of events
			2- Promote Social activities and group interaction between faculty members.	√	√	√	√	√	√	CoE activities committee		Faculty members	

Strategic University Goals	CoE Strategic Goals	Actions	2015	2016	2017	2018	2019	2020	Responsibility	Budget	Resources	KPI's
Strategic goal 4: Seeking to promote and develop human resources to ensure excellence in performance and work stability at the university.	FO.5: Strive to attract and retain highly qualified faculty members.	4.1: recruit highly qualified faculty and staff with degrees from reputable world class universities	√	√	√	√	√	√	CoE recruitment committee Department recruitment committee		Human Resources	1. % of faculty members graduated from western universities.
		4.2: implementation of faculty retention measures through rewarding and incentives system	√	√	√	√	√	√	CoE council University payroll department Human resource department		University regulations Financial Resources	2. % of faculty members worked in well reputed international instiutions.
		4.3: Measure and improve employee satisfaction	√	√	√	√	√	√	Human resource department		Employee satisfaction surveys	3. Number of financial rewards given for faculty members.
		4.4: Develop and Implement Regular Salary Review Policy	√	√	√	√	√	√	University President		Financial Unit and Human Resources	4. Average satisfaction score for faculty members.