

Majmaah University

College of Engineering

Electrical Engineering Department

Strategic Plan

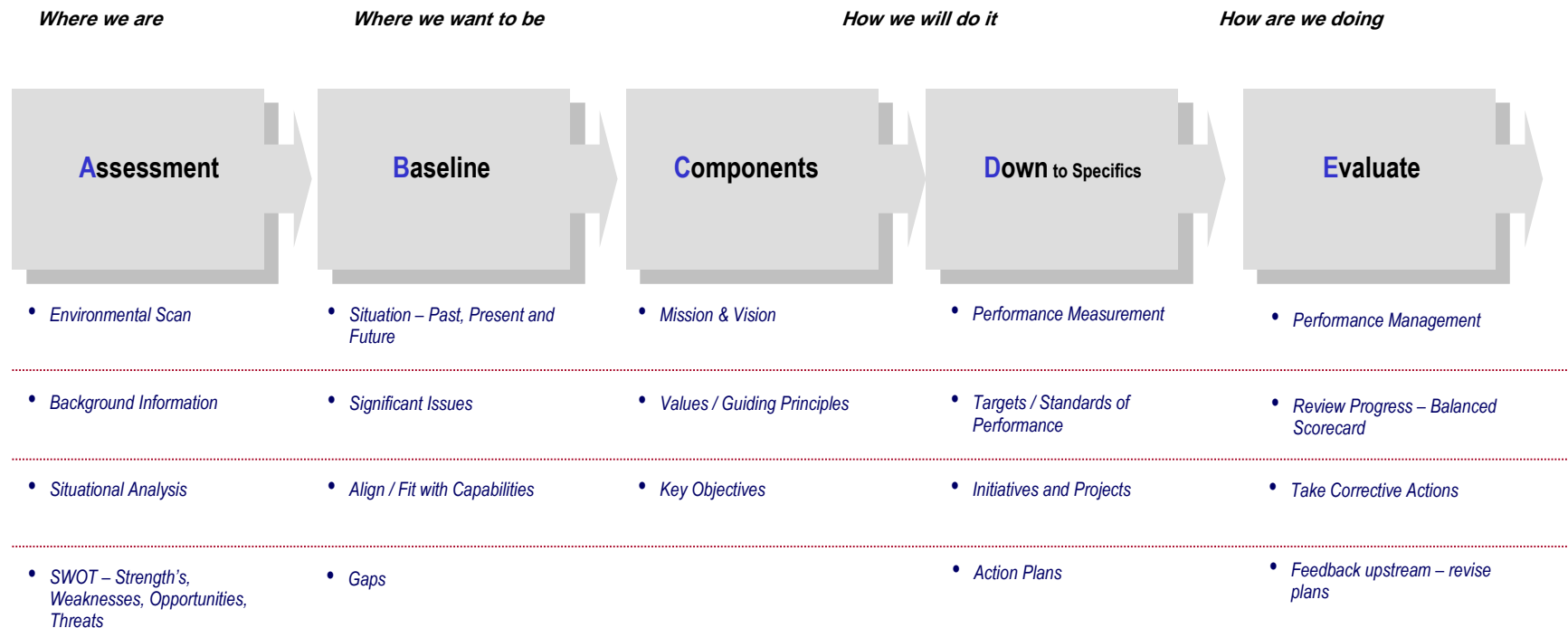
1434-1436

1. Introduction

Starting from the academic year 2014\2015, the Electrical Engineering (EE) Department found the importance writing a strategic to be as a blueprint or framework and department that will be used to achieve the EE program goals and objectives.

Based on the College strategic plan (1432-1435) mission, objectives and goals, the strategic plan committee in the EE program determines the main strategic goals and their related sub goals.

The goals of EE program defined based on desired state that the program wants to achieve, a target the EE program wants to hit. The strategic plan committee (SPC) and with participations of all faculty members, formed committees and administration discussed the activities and responsibilities that should be defined to achieve sub goals and main goals.



2. Main Goals of the EE program strategic plan

Goal 1: Providing a high quality of academic service based on national and international standards to enhance the competence of our graduate in labor and to contribute in the society

Sub goal	KPI	Target	Initiative	Responsibility
Improving the admission process in the program	Percentage of enrollment students to the total number for students	<ul style="list-style-type: none"> - First Year 60% - Second Year 65% - Third Year 70% 	- Developing the admission rules	Strategic Plan Committee
			Preparation educational activities about the program and tracks	Undergraduate coordination Committee
Enhancing the internal efficiency : Pass percentage, Fail percentage and transfer percentage	<ul style="list-style-type: none"> - Improving the pass percentage - Improving the fail percentage - Improving the transfer percentage 	Reaching 80% of internal efficiency.	External reviewing of program and courses	Quality Unit
			Using different teaching strategies	Teaching Quality Assurance Committee
			Encouraging students to use the digital library	Undergraduate coordination Committee
			Support and motivate outstanding students	Undergraduate coordination Committee
			Program to support unsurpassed students	Undergraduate coordination Committee
			Improving the assessment methods	Quality Unit
			Developing an effective procedure to analyze Exam results	Quality Unit
			Continuous investigation of	Quality Unit

			stakeholder's needs and their feedback about graduates.	
Enhancing the internal efficiency : Pass percentage, Fail percentage and transfer percentage	<ul style="list-style-type: none"> - Improving the pass percentage - Improving the fail percentage - Improving the transfer percentage 	Reaching 80% of internal efficiency.	Developing and diversion new learning resources	Undergraduate program committee and Quality committee
			Training faculty staff the effective communication skills	Quality office
			Studying and analyzing students cases and putting recommendations to improve the internal efficiency	Head of department and students coordination committee.
			Organizing lectures and workshop for students to enhance their skills and to improve their academic levels.	Quality unit and students coordination committee
Enhancement of students skills in research and increase their participation in national and international	<ul style="list-style-type: none"> - Number of students participated in conference - number of patents and scientific inventions - Number of awards 	5% of students are qualified and have the intended skills	A program for students patents and scientific inventions	Undergraduate Research & Assistance Committee
			Enhancing the research skills through training and lectures	Undergraduate Research & Assistance Committee
			Support participations of students in conferences	HOD and Undergraduate Research & Assistance Committee
Enhancement of students skills in research and increase their participation in national and	<ul style="list-style-type: none"> - Number of students participated in conference - Number of patents and scientific inventions - Number of awards 	5% of students are qualified and have the intended skills	Establishing research students center (incubator) to support students	HOD and Undergraduate Research & Assistance

international				
Enhancing students skills and prepare them for market	<ul style="list-style-type: none"> - Number of students participated in training courses (Computer skills and English language) - number r of students participated in training courses in general - Identifying, formulating, analyzing and solving engineering problems. Demonstrate the professional skills. - Adapt to rapidly changing technologies. - Percentage of graduates from undergraduate program leaving their works due to professional issues - Employee satisfaction (out of 5) - Number of students who came to senior management positions 	Enhancing the main skills of 50% of graduates to be prepared for market.	Organizing training courses for students. Matlab, English	students coordination committee
			Encouraging students to participate in training courses.	students coordination committee
Developing the applied skills of	- Number of students participated in Engineering practice to the	100%	Developing the Engineering practice regulations	Engineering Practice Committee

students	number of students that pass 90 Cr. Hours. - Number for students finished	90%	Cooperation with companies and organizations to find engineering practice places	Engineering Practice Committee
	Engineering practice - Percentage of students finished	90%	Developing senior design procedure and regulations.	Senior Design Committee
	senior designs - Percentage of students finished Labs	90%	Developing and following up labs	Lab Developments Committee

2.2 Enhancing the quality qualifications of the faculty members to achieve high levels of quality and excellence in all future teaching, scientific research and serving society.

Sub goal	KPI	Target	Initiative	Responsibility
Increasing the number of faculty members participated in national and international conferences	- Number of faculty members participated in national and international conferences	Achieve 1:5 ratio of participation	Organizing workshops about research methodology and how to write research papers	Research Committee
	- Number of faculty members participated in conference to the total number of faculty members in the program		Support faculty members and simplification of administrative procedure.	Quality Center
Encouraging researchers to publish their research articles in national and international peer reviewed journals	- Number of publications in national and international journals	1:3 research: number of published papers ratio	Organizing workshops about research methodology and how to write research papers	Research Committee
	- Number of subscription in periodicals and Journals.		Support publications	Quality Center
Encouraging	- Number of internally funded	- 1:2 internal	Organizing workshops and	Research Committee

researchers to participate in funded projects	research project – Number of externally funded projects	Funded research projects – 1:1 external funded projects	lectures about research national and international funded projects	
			Making a database for funded and finished research projects	Web Administration Committee
Linking the research with the society needs	– Number of consulting scientific services provided by the program – percentage of research projects intended to solve society problems – Number of papers published about solving society problems	40% of research projects, activities and papers should be oriented to solving society problems	Encouraging researchers to work with research that helps to improve the environment and society	Research Committee
			Establishing research center to study the society problems	Research Committee
			Organizing conferences and scientific days	Research Committee
Increasing number of high qualified faculty members holding PhD. Degree	Percentage of PhD holders to all faculty members	70%	Preparing study about the program needs of faculty members holding PhDs	Interviewing Committee
			Developing an effective procedure to select high qualified PhD faculty members	Interviewing Committee
Development of Faculty members skills in teaching , assessment and evaluation	– percentage of trained to the total numbers – Number of training programs	50% of trained faculty members	Organizing training courses	Teaching Quality Assurance Committee
			Encouraging faculty members to participate in training courses	Teaching Quality Assurance Committee
Development of Faculty members skills in using new	percentage of trained to the total numbers – Number of training programs	50% of trained faculty members	Organizing training courses	Teaching Quality Assurance Committee
			Encouraging faculty members to participate in training courses	Teaching Quality Assurance Committee

technologies and E-learning resources				
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2.3 Enhancing the quality of program and to support the program to achieve its Mission, Goals and Objectives and to be accredited nationally internationally

Sub goal	KPI	Target	Initiative	Responsibility
Developing the program: Curriculum and courses	- Ratio of developed courses to the total number of courses in the program	70%	Reviewing curriculum internally and externally	Undergraduate Program Committee
			Studying and Annual program report and Course reports	Undergraduate Program Committee
			Linking with stakeholders	Department Service Committee
			Forming Board of advisors	HOD
			Analyzing course, Experience and program surveys	Quality Unit
			Organizing workshops about quality of programs	Quality Unit and Undergraduate Program Committee
To be accredited internally	Accredited	100%	Adopted NCAAA and NQF standards	Quality Unit
			Applying NCAAA standards and forms	Quality Unit
			Developing program and course specifications.	Quality Unit and Undergraduate Program Committee
			Performing self-Evaluation Report.	Quality Unit
			Writing SSR	Quality Unit