



# College of Engineering Quality Vice–Deanship Operational plan Period: 2016–2017 Academic Year





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### Introduction:

Quality Vice-Deanship in the college of engineering concerns about enhancement and development of the quality and to make it a part of all members' daily life. In order to achieve our goals and objectives,





an operational plan is set to help in organizing the quality work for enhancement and monitoring. The operational plan is written based on different resources such as key performance indicators of the college of engineering, SWOT analysis, initiatives and activities of units and committees as a part of Vice-deanship of the quality.

The operational plan is discussed and approved by the vice-deanship of quality and by the college of engineering.

### Vision:

To be known as a center of quality in the University's academic systems through enhancement of student and staff satisfaction and to accredit all Programs nationally and internationally.

### Mission:

To develop and implement quality strategies those support the achievement of Goals and objectives for supporting quality works in college of Engineering.

### **Objectives:**

1-Organizing, developing and implementing the quality work in the college of engineering

2- To prepare all programs to be accredited nationally and internationally

### **Responsibilities:**

- 1- To develop and organize the quality work in the College
- 2- Supervision and supporting academic programs to achieve their goals and initiatives
- 3- Archiving and documentation of the quality process
- 4- Enhancement the quality skills of college staff
- 5- Monitoring the quality assurance process in the college of engineering.





### **Quality Structure**



### Units and committees members and Responsibilities:

### Quality Steering Committee.

- 1. Dr. Abdullah Almuhaisen (Coordinator)
- 2. Dr. Abdel-Rahman Al-Qawasmi (Member)
- 3. Dr. Dr. Sameh Mohammad (Member)
- 4. Dr. Praveen Komari (Member)
- 5. Dr. Sayed Abbas (Member)
- 5. Dr. Mohammad Zobair (Member)
- 6. Dr. Yahia AlJahmani (Member)
- 7. Eng. Hussam Habiba (Member)

#### Responsibilities.

- 1. Steering all quality issues in the college
- 2. Recommending quality plans and programs
- 3. Supervising all activities in the quality office

### Academic Accreditation Unit

- 1. Dr. Abdel-Rahman Al-Qawasmi (Coordinator)
- 2. Dr. Sayed Abbas (Member)
- 3. Dr. Waqar Khan (Member)
- Responsibilities.





- 1. Steering academic programs for academic accreditation
- 2. Supervising the implementation of quality standards in all academic programs
- 3. Organize and documentation of quality work in the college
- 4. Quality Reports

### **Quality Assurance Unit**

- 1. Dr. Sayed Abbas (Coordinator)
- 2.Dr. Waqar Ali (Member)
- 3-Dr. Mohammad Zobair (Member)
- 4-Eng. Dea Alrahman (Member)

#### Responsibilities.

- 1. Monitor the quality of services provided by the college
- 2. Develop methods for improving college's performance.
- 3. Assessment and evaluation
- 4. Feedback and recommendation

### Development and Training Unit

Dr.Praveen R.P. (Coordinator)

- 1-Dr.Muhammed Kashif
- 2- Eng.Husam Habibeh
- 3- Eng.Yahya Al Jahmany

#### Responsibilities.

- 1. Ensure that there is a strategic plan for the college
- 2. Improving Web site.
- 3. Identify the training needs for faculty members and employees in the college.
- 4. Prepare the training plans and quality educational support for the college with the support of
- Quality and skills development deanship.

5. Encourage faculty members to participate in the training programs offered by the university. Promote quality culture.

#### Documentation and Archiving Committee

- 1. Eng. Hussam Habiba (Coordinator)
- 2. Eng. Mohammad Othman (Member)
- 3. Eng. Dea Al\_Rahman (Member)
- 4. Eng. Muhammad Humran (Member)
- 5. Mr. Nasser Alturki (Member)

#### Responsibilities.

- 1. Identification of required data
- 2. Data Collection
- 3. Data processing and preparation with statistical analysis





- 4. Archiving and database management
- 5. Unifying documents and forms in the college of engineering

### Assessment and Evaluation Unit (AEU)

### Members:

- 1. Dr. Sameh Mohamed (Coordinator)
- 2. Dr. Abdullah AlAhmadi (Member)
- 3. Dr. Yousef Akoor (Member)
- 4. Dr. Nadeem khan (Member)

### **Responsibilities:**

- 1- Assessing, evaluating and analyzing all the quality data in the college
- 2- Developing automatic assessment and evaluation programs

### Occupational and Environmental Health Unit (OEHU)

#### Members:

- 1- Dr. Yahia AlJahmani (Cooredinator)
- 2- Dr. ElManee Barhoumi (Member)
- 3- Dr. Tareq Albagory (Member)

### Responsibilities

1- Evaluating the Labs conditions based on the University Department of Occupational and Environmental Health

- 2- Meeting the OHSAS 18001 standards
- 3- Distribution of Occupational and Environmental Health culture in the college

### Quality Assurance Unit (QAU)

#### **Mission**

To create and activate a robust quality assurance system for all the components of the educational system in the College of Engineering at Majmah University and provide continuing assistance to various engineering programs of the college aiming to be accredited by 2016.

### **Objectives**

The main objective is to apply quality assurance standards in all areas and in its academic programs in accordance with the national and global standards, taking into consideration the mission of the College; consequently, qualifying the College to be accredited as a locally and regionally recognized educational institution.

a. Other objectives include:





- 1. Development and implementation of an effective evaluation system for the students, the courses and educational programs, and approving a self-evaluation system for all the programs.
- 2. Improvement of the current curricula for undergraduate programs in all departments of the College.
- 3. Increase the quality awareness and culture among all the college members using continuous enhancement and total quality assurance via creating a common language for the concept of quality assurance.
- 4. Design and application of the appropriate model for performance evaluation which integrates all the components of the higher education system and complies with the national, regional and international standards.
- 5. Review all the quality documents including (Course File, Course Specifications, Course syllabi, Course report, Program specifications, Program annual reports,....etc)
- 6. Assessment of all questionnaires (staff, students, graduates, labor market, etc) and data to help in building good improvement plans for all the engineering programs.
- 7. Document all elements of the learning process.
- 8. Ensure the involvement of all stakeholders in all stages of the educational process.
- 9. Cooperate with the other units, enters, committees, and organizations, at the national and regional levels aiming to attain accreditation.

### Tasks

- 1. Monitor the quality of services provided by the college
- 2. Develop methods for improving college's performance.
- 3. Assessment and evaluation
- 4. Feedback and recommendation

### Documentation and Archiving Unit (DAU)

### Mission:

Support and organize all documents for College, departments, units and committee.

### **Objectives**:

The main objective of the DAC is the Archiving all document for engineering college prepare and facilitate process for all document. The other important objectives are:

- 1- Unifying all college forms with general purposes
- 2- To have well organized and archived data as software and hardware

### Tasks:

- 1. Identification of required data
- 2. Data Collection
- 3. Data processing and preparation with statistical analysis
- 4. Archiving and database management





 Unifying documents and forms in the college of engineering Recording all activities in the college

### Academic Accreditation Unit (AAU)

### Mission:

To enhance the quality of academic programs through their national and international accreditation

### **Objectives**:

- 1. Supervising and steering the academic programs preparation for academic accreditation
- 2. Technical and consulting support for academic programs ready for accreditation.

### Tasks:

- 1. Steering academic programs for academic accreditation
- 2. Supervising the implementation of quality standards in all academic programs
- 3. Organize and documentation of quality work in the college
- 4. Quality Reports

### Development and Training Unit (DTU)

### **Mission:**

To equip faculty with the necessary skills required to meet the Quality requirements for National and International Accreditation and to develop the website of the College of Engineering to International Standard.

### **Objectives:**

To encourage and support faculty to participate in the workshops and presentations scheduled with the support of Quality and Skills Development Deanship.

To continuously monitor and update the website of College of Engineering to meet International Standards.

### Main Tasks:

To identify and support the Quality training needs of the Faculty with the support of Quality and Skills Development Deanship.

To improve the website of the College of Engineering to International Standards.

To ensure that there is a strategic plan for the College of Engineering.

### Assessment and Evaluation Unit (AEU)

### **Mission**:

To contribute in improving the quality in the college of Engineering

### **Objectives:**





- 1- To improve the quality work based on providing the college with desired assessment and evaluation results and analysis
- 2- To develop and automate the assessments and evaluation procedures

### Main Tasks:

- 1- Assessing, evaluating and analyzing all the quality data in the college
- 2- Developing automatic assessment and evaluation programs

### Occupational and Environmental Health Unit (OEHU)

### **Mission**:

To achieve a high standard of safety and professional health quality that will lead to better education, research and community service.

### **Objectives:**

 The promotion of a culture of safety and professional health among faculty members
 The support of various departments at the college, in order to raise the level of safety and health at their labs

3. The protection of the environment on the college of Engineering.

### Main Tasks:

1- Evaluating the Labs conditions based on the University Department of Occupational and

Environmental Health

- 2- Meeting the OHSAS 18001 standards
- 3- Distribution of Occupational and Environmental Health culture in the college

### **Initiatives and Performance Indicators:**

General Initiatives, Performance indicators and responsibilities for the vice-deanship of quality and skills development based on the operational plan of the college of engineering.

## Goal 1: Building of competition capabilities of students according to the market needs and knowledge society.

Initiative	Performance Indicators		Academ	nic Year		The entity responsible	
mualive	Tenormance indicators	37	38	39	40	I ne entity responsible	
faculty members'	Percentage of faculty members participated in professional development activities over the	~	~	~	$\checkmark$	Training and Development Unit	

Sub-Goals (5): Diversifying the sources of learning





measurement	and	past year			
evaluation					

### Goal 2: Upgrading the skills and capabilities of academic and administrative staff.

Sub-Goals (	2)	: Improvement	of the professional	development	system fo	r faculty members

Initiative	Portormanas Indicatora	Aca	Academic Year		ır	The entity regressible	
mnanve	Performance Indicators		38	39	40	The entity responsible	
The sustainability of professional development for faculty members	-Percentage of faculty members participated in professional development activities over the past year	~	~	~	~	Development and Training Unit	
Reviewingandraisingevaluationanddevelopmentplansofacademicprogramsatcollege	-Rate of faculty members that received training in modern teaching strategies that enhances teaching and learning.	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	Development and Training Unit	

## **Goal 5: - Meet the quality requirements and preparing for institutional and program accreditations**

Sub-Goals (1): Development of quality Assurance system in accordance with a Systematic Model

		A	Academic Year		'ear			
Initiative	Performance Indicators	37	38	39	40	The entity responsible		
Periodic evaluation	- Satisfaction rate of leaders							
of Quality system	and faculty members about		$\checkmark$		~	Quality Assurance Unit		
run the college	quality system							
Activation of	- Satisfaction level of							
committees of	beneficiaries – students,					Quality Assurance I hait		
quality academic	graduates, employers and	v	v	Ň	✓	v v	Ň	Quality Assurance Unit
programs	employment parties for a							
Activating	quality took system					Documentation and		
authentication	- Percentage of programs	$\checkmark$	$\checkmark$	v	√ √	Archiving Unit		
system	and units that are being							





		A	Academic Year		ear	
Initiative	Performance Indicators	37	38	39	40	The entity responsible
	<ul> <li>internally and externally benchmarked in quality activities.</li> <li>Satisfaction level of quality units' performance in the college</li> <li>The effectiveness of Quality Center in saving documents and evidence and the way of their documenting and</li> </ul>	37	38	39	40	
	organizing – The effectiveness of improvements plans					

### Sub-Goals (2): Preparing educational programs for accreditation

- ··· ··		Academic Year		'ear	mi c'c 11.1	
Initiative	Performance Indicators	37	38	39	40	The entity responsible
Periodic evaluation	- Percentage of courses that					
of academic	evaluated by students during					Academic Accreditation Unit
programs of the	the year	v				Academic Accreditation Unit
college	- Number of academic					
Quality Assurance	programs that accredited by					
of the reports and	ABET					
specifications of	- Percentage of advisory	$\checkmark$	$\checkmark$	1	$\checkmark$	Quality Assurance Unit/
programs and	boards activation for					
courses	academic programs					
Quality Assurance						
of learning			$\checkmark$		$\checkmark$	Quality Assurance Unit/
outcomes for		v	v		v	
academic programs						
Activation of the						
independent		<i>_</i>				Academic Accreditation Unit
evaluation of		v				Academic Accreditation Unit
academic programs						
Activation of the		$\checkmark$	$\checkmark$	ľ	$\checkmark$	Scientific Programs





		A	caden	ic Y	'ear	
Initiative	Performance Indicators	37	38	39	40	The entity responsible
advisory boards of						
all educational						
programs						
Performance						
Indicators						Academic Accreditation
measurement and			./		$\checkmark$	Unit/VD of Quality and
benchmarking for		v	v		v	•••
Academic						Development
Programs						
Quality assurance		~			$\checkmark$	Quality Assurance Unit/VD of
of courses File		•	•		•	Quality and development
To be accredited by						Academic Accreditation
ABET				,	$\checkmark$	Unit/VD of Quality and
ADL1						Development

### Sub-Goals (3): Distribution of quality institutional education for University members

÷		A	cade	mic Y	'ear	mi
Initiative	Performance Indicators	37	38	39	40	The entity responsible
Preparation and implementation of training programs, workshops and seminars in the field of quality and academic accreditation	<ul> <li>Percentage of faculty members that trained in quality areas</li> <li>Rate of faculty members that participated in quality events and activities in the college</li> </ul>	V	V	~	V	Development and Training Unit/VD of Quality and Development
Preparation for the University Director Excellence Award		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	VD of Quality and Development

The main KPIs of Quality Vice-Deanship approved by College of Engineering:

N	KPI	Responsibility
1	Percentage of faculty members participated in professional	DTU
	development activities over the past year	
2	Rate of faculty members that received training in modern	DTU
	teaching strategies that enhances teaching and learning.	





3	Satisfaction rate of leaders and faculty members about quality	QAU
	system	
4	Satisfaction level of beneficiaries – students, graduates,	QAU
	employers and employment parties for a quality took system	
5	Percentage of programs and units that are being internally and	QAU
	externally benchmarked in quality activities.	
6	Satisfaction level of quality units' performance in the college	QAU
7	The effectiveness of Quality Center in saving documents and	DAU
	evidence and the way of their documenting and organizing	
8	The effectiveness of improvements plans	QAU
9	Percentage of courses that evaluated by students during the year	QAU
10	Number of academic programs that accredited by ABET	AAU
11	Percentage of advisory boards activation for academic programs	AAU
12	Percentage of faculty members that trained in quality areas	DTU
13	Rate of faculty members that participated in quality events and activities in the college	DTU

### Programs nominated for ABET accreditation.

Program	Program Coordinator	Responsible Person
Electrical Engineering	Dr. Abdullah Al-	Dr. Abdel-Rahman Al-Qawasmi
	Muhaisen	
Civil Engineering	Dr. Abdullah Alshehri	Dr. Sameh Mohammed
Mechanical Engineering	Dr. Abdulaziz Alkolaibi	Dr. suchandra Hakim

### Important Dates: (2015-2018)

Ν	ltem	Date	Responsibility	
1	Preparing programs for accreditation	from 1st of November 2015 to	Programs Coordinators	
		1st of October 2016		
2	Submitting the Preliminary Self-Study	1st of October 2016	Programs Coordinators	
	Report (readiness report) to the			
	quality office for reviewing			
3	Correcting and modifications of the	From 1 <sup>st</sup> of October to 15th of	Programs Coordinators	





	Preliminary Self-Study Report based on reviewer comments	October 2016	
3	Submit a Preliminary Self–Study Report	By November 1 (2016)	Responsible person
4	Submit your Request for Evaluation based on the ABET recommendations	By January 31 (2017)	Program Coordinator
5	Complete and submit your Self–Study Report	by July 1 (2017)	Responsible person
6	The On-Site Visit	September – December (2017)	Department
7	Due Process and the Accreditation Decision	By August 31 (2018)	ABET reviewing committee





### The operational Plan.

Proposed by:

AAU
DTU
QAU
DAU
AEU

No	Activities	Implementation Period		Performance Indicators	Responsibility		Remarks
			to		Basic	Support	
	Collecting Program and Course Annual reports for all departments	FS/WO		7	DAC	HOD	Annual
	Course score Summary Analysis	FS/WO	FS/W1	6	AEU	Program coordinators	Annual
	Assessment graduates and students questionnaires	FS/V	NO	4,9	AEU	CoE	Annual
	Updating Archiving Room	FS/W1	FS/W3	7	DAU	CoE	Annual
	To follow up with the Strategic Planning Committee at the college level.	FS/W1	FS/W10	4	DTU	DTU	All year
	Review the website of College of Engineering with its contents	FS/W1	FS/W3	6	DTU	DTU	annual
	Updating the website with the Approved data for all departments	FS/W1	FS/W5	6	DTU	DAC	Annual
	Reviewing the Annual reports (Program and Courses) for the previous year for all Academic Programs(with report)	FS/W1	FS/W2	5,9	QAU		Annual
	Preparing for the university Director Excellence award	FS/W1	FS/W6		QDSD	Deanship	Annual
	To follow up the Quality Training Programs been offered by Quality Deanship	FS/W1	FS/W2		DTU		Annual





Reviewing Program and Course Specifications(with report)	FS/W2	FS/W3	6	QAU		Annual
Checking the percentage of ABET SSR completion	FS/W2	FS/W3	10	AAU	Departments	Once
Lab conditions in EC from the OHSAS 18001 point of view	FS/W6	FS/W8		OEHU	Secretary	annual
Collecting Electronic materials for departments (On PC)	FS/W3	FS/W5	7	Secretary	DAC + Quality Coordinators	Bi-Annual
A workshop, presentation or training course related to QAU	FS/W3	FS/W4	1,12,13	DTU	QAU	Annual
Second Report for ABET accreditation	FS/W3	FS/W4	10	AAU	QAU	Once
Approving Engineering Coding Ethics	FS/W3	FS/W5		AAU	DQSD	Once
A workshop, presentation or training course related to AEU	FS/W5	FS/W6	1,12,13	DTU	QAU	Annual
Reviewing Quality structure, committees and unit in the college and programs (names, members,)	FS/W5	FS/W6	6	QAU		Annual
Annual Internal Review process (with report) for all departments	FS/W6	FS/W8	6	QAU	AAU	Annual
A workshop, presentation or training course related to AAU	FS/W7	FS/W8	1,2,12,13	DTU	AAU	Annual
Reviewing the assessment and evaluation process in for all programs (with report)	FS/W10	FS/W12	6	QAU		annual
Senior Design Aspects	FS/W10	FS/W12		QAU	AAU	Annual
Reviewing The publications and website data for the college and programs (with report)	FS/W12	FS/W14	6	QAU		Annual
Collecting Electronic materials for departments (On PC)	SS/W3	SS/W5	7	Secretary	DAC + Quality Coordinators	Annual
Following the board of advisors meetings	SS/W4	SS/W12	11	QAU	DQSD	Annual
A workshop, presentation or training course related to DTU	SS/W4	SS/W5	1,12,13	DTU	DTU	Annual
Lab conditions in EC from the OHSAS 18001 point of view	SS/W6	SS/W8		OEHU	Secretary	annual
A workshop, presentation or training course related to QAU	SS/W7	SS/W8	1,12,13	DTU	QAU	Annual
Evaluation of Course File (Portfolio)	SS/W7	SS/W9	8	QAU	All Academic programs	Annual
A workshop, presentation or training course related to AAU	SS/W10	SS/W12	1,12,13			Annual
Assessment and evaluation of faculty survey	SS/W14	SS/W15	4	AEU	AEU	Annual
Independent evaluation of academic programs	SS/W14	SS/W16	6	QAU	QDSD	Annual





KPIs measurements and evaluation	SS/W15	SS/W16	8	AEU	All Academic programs	Annual