

**CUFE-QAAU-5/2/2018** 

Cairo University Faculty of Engineering Quilty Assessor and Accorditation Unit

#### OUTLINE

- **1- NEW BOARD OF QAAU**
- 2- MISSION & VISION OF QAAU 2018
- **3- ONGOING PROCESSES OF 2018 ONWARDS** 
  - A- CUFE SELF STUDY REPORT (SSR) CU 9 FILES + STRATEGIC PLAN OF CUFE QAAU
  - **B- CUFE ORGANIZATION CHART**
  - C- STATUS OF ACADEMIC YEAR 2016-17
  - D- ONGOING QUALITY PROCEDURES OF PROGRAMS
  - E- NAQAAE LOCAL ACCREDITATION OF CUFE PROGRAMS
  - F- ABET ACCREDITATION POTENTIAL FEASIBILITY
- 4- NEW ENGINEERING NARS 2018 & NEW CUFE
  - CATALOG 2018-19 MAPPING
- 5- 2018 QAAU TASKS for FALL 2017 & SPRING 2018









office and a second



Prof. Dr. Sherine Mohy Eldin Wahba- (Unit Head) Professor at Architectural Engineering Department

Assoc. Prof. Dr. Mahmoud Mohamed Tash- (Unit Member) Assoc. Prof. at Metallurgical Engineering Department

Dr. Hossam Abd El Hammid Abd El Gawaad- (Unit Member) Assis. Prof. at Public Works Engineering Department

Dr. Tamer ElSerafi- (Unit Member) Assis. Prof. at Architectural Engineering Department

Eng. Mahmoud Abido- (Unit -Team Assistant)

**TA. In Aerospace Engineering** 

MEETINGS 3 TIMES/MONTH- TASK ORIENTED GROUPS + QAAU ONGOING PROCEDURES









# **MISSION & VISION OF QAAU 2018**

"Quality is never an accident; it is always the result of high intention, sincere effort, intelligent direction and skillful execution; it represents the wise choice of many alternatives." *William A. Foster* 

IT'S NOT ABOUT DOCUMENTATION ONLY, IT'S ABOUT THE QUALITY OF SERVICE WE PROVIDE AND MAKING SURE THAT WE ARE:

- EFFICIENT
- -TRUE
- UP TO DATE
- COMPETENT
- COMPETITIVE

MAPPING TO A BENCHMARK!!!











# PREPARING CUFE SELF STUDY REPORT (SSR) FILES

#### ACCREDITATION 2015- 14 files, NOW CU- 9 & FE-12 files

- معيار التخطيط الاستراتيجي
- معيار القيادة والحوكمة والاستقلالية.
  - معيار الجهاز الإداري.
- معيار الموارد المالية والمادية والبنية التكنولوجية.
  - معيار أعضاء هيئة التدريس والهيئة المعاونة.
    - معيار الطلاب والخريجين.
      - معيار التعليم.
    - معيار البحث العلمي والأنشطة العلمية.
  - معيار المسئولية المجتمعية والتنمية المستدامة.



#### STRATEGIC PLAN OF CUFE QAAU





# FACULTY BOARD MEETING-TUES.16-1-2018

الأستاذ الدكتور/ السيد محمد تاج الدين

ــــــد الكلية

# إعتماد الهيكل التنظيمى للكلية ORGANIZATION CHART









# ON GOING QUALITY PROCEDURES OF PROGRAMS 13 TWO-SEMESTER PROGRAMS

	Program Code	Program Title	
1	AER	Aerospace Engineering Department	برنامج هندسة الطيران و الفضاء
2	ARC	Architectural Engineering Department	برنامج الهندسة المعمارية
3	CHE	Chemical Engineering Department	برنامج الهندسة الكيميائية
4	CVE	Civil Engineering Department	برنامج الهندسة المدنية
5	ELC	Communication and Electronics Engineering Department	برنامج هندسة الالكترونيات و الاتصالات الكهربية
6	CMP	Computer Engineering Department	برنامج هندسة الحاسبات
7	EPM	Electric Power and Machines Engineering Department	برنامج هندسة القوى و الالات الكهربية
8	MDP	Mechanical Design and Production Engineering Department	برنامج هندسة التصميم الميكانيكي و الانتاج
9	MEP	Mechanical Power Engineering Department	برنامج هندسة القوى الميكانيكية
10	MET	Metallurgy Engineering Department	برنامج هندسة الفلزات
11	MIN	Mining Engineering Department	برنامج هندسة المناجم
12	PE	Petroleum Engineering Department	برنامج هندسة البترول
13	SBE	Systems and Biomedical Engineering Department	برنامج الهندسة الطبية

#### **8 CREDIT HOUR PROGRAMS**



	Program Code	Program Title	
14	CCE	Communication and Computer Engineering	برنامج هندسة الاتصالات والحاسبات
15	AET	Architectural Engineering and Technology	برنامج هندسة وتكنولوجيا العمارة
16	STE	Structural Engineering	برنامج هندسة الإنشاءات
17	WEE	Water Engineering and Environment	برنامج هندسة المياه والبيئة
18	EEE	Electrical Energy Engineering	برنامج هندسة الطاقة الكهربائية
19	PPC	Petroleum and Petrochemical Engineering	برنامج هندسة البترول والبتروكيماويات
20	MDE	Mechanical Design Engineering	برنامج هندسة التصميم الميكانيكي
21	CEM	Construction Engineering and Management	برنامج هندسة وإدارة التشييد



#### PERCENTAGE OF QAAU VISIT OCT 2017 CHECKLIST FOR TWO-SEMESTER PROGRAMS







Cairo University Faculty of Engineering

#### PERCENTAGE OF QAAU VISIT OCT 2017 CHECKLIST FOR CREDIT HOUR PROGRAMS





#### **EXIT SURVEY 2016-2017**

#### Week 9-11, Spring 2017, for Two-Semester students ONLY

			العبارة									
E	D	с	В	Α	Statement							
$\overline{1}$	2	3	4	وارد التعليمية (قاعات المحاضرات، المعامل،) المستخدمة لاكسلبي للمهارات المهنية والعملية كافية Educational resources (halls, laboratories) are enough to acquire professional/practical skills								
U	Ø	9	U	9		.10						
1	2	3	۲	6	- Available information technology resources are sufficient							
1	2	3	٩	5	المقررات الدراسية تساعدني على تنمية مهارة التعلم الذاتي Curriculum helped me develop my self-learning skills							
1	2	3	٩	6	المراجع العلمية متاحة لمساعدتي في التحصيل والقيم Scientific references are available to help me in knowledge gathering and understanding	۰۱۸						
0	0	0	$\sim$	المبالأ بالتعامية المبتخدمة في الأب = مالاضا= تساعد . كان إ في متابعة مفيد المائة العامية								
Θ	2	3	٩	5	Used teaching tools helped me a lot in following up and understanding the scientific material	. ١٩						
1	2	3	۲	5	اشعر. باقتة في نظام القطلم من نتائج الامتحانات I trust the system of complaint against exam results ا	.۲۰						
G	2	(3)	$( \mathbf{A} )$	(5)	اشعر بالعدالة والممداواة بيني وبين باقي زملاني في كافة الممار سلت التي أشارك فيها	. ٣١						
U	Ø	ୢ	J	ୢ	I felt justice and equity between all students in all the activities that I have participated in							
1	2	3	۲	ابل التراسية تحقق اكبر قدر من المرونة بما يسمح لي من ممارسة معظم الإنشطة الاكذيبية والطلابية Schedules are flexible enough to allow participation in most of the academic/stude activities								
_	-	-	_	_	activities اشعر بان المقترحات التي أتقدم بها لادارة الكلية و هينة التدريس توضع في الاعتبار وتتم در استها والاستفادة منها	. ۲۳						
1	2	3	٩	D (5) Suggestions to the administration and faculty members are useful and are considered								
1	2	3	٩	ن السهل الإطلاع على قاتون حماية الملكية الفكرية بالمكتبة أو التسم Access to the intellectual property protection law in the library or in the department is easy								
1	2	3	٩	6	مفاهم الملكية الفكرية والغش العلمي واضحة Intellectual property and scientific fraud concepts are clear	.70						
0	0	0	0	0	أنشطة المشاركة المجتمعية في الكلية (خدمة المجتمع المحلى – مساعدة منظمات المجتمع المدني –) كافية	. * 1						
0	2	3	٩	5	Community involvement activities (e.g. community service, NGO support,) are sufficient	. • •						
1	2	3	٢	5	الأنشطة الثقافية (مثل المداضر ات العامة واقدوات) كافية Cultural activities (such as public lectures and seminars) are adequate	.۳۷						
n	2	(3)	$( \bullet )$	(5)	توفر الكلية فرص للطلاب لتنمية مهارات المشاركة المجتمعية داخل الكلية وخارجها	. ۳۸						
0	Θ	J	G	S	Community involvement skills growth opportunities are provided inside/outside the institution							
1	2	3	٩	6	البرنامج يعزز مهارات الربط بين النظرية والتطبيق عبر حل المشكلات العملية والتطبيقية (صناعية – بينية) The program enhances the link between theoretical and practical skills through the solution	. ۳٩						
					of practical and applied problems (industrial, environmental,) وسائل تحفيز الطلاب للمشاركة في أنشطة المشاركة المجتمعية (منح در اسية – جوانز – شيهادات تقدير ) مرضية	_						
1	2	3	٩	5	وتعان تعلين العادية المعادية في النظمة المعادية المجمعية (مع دراسي – جوادر – مهادات العلين) مرضية Motivations (scholarships, awards,) to join in community involvement activities are adequate	.۳۰						
				P.J. 161	ما هو أكثر شيء وجدته ايجابيا اثناء دراستك بالكلية؟ ما هو أكثر شيء وجدته سليبا أثناء دراستك							
		w			ما هو اكثر شيء وجدته الجابيا الناء دراستك بالكلية: ما هو اكثر شيء وجدته سبييا الناء دراستك most negative aspects What are the most positive aspects							
					luring your study in the encountered during your study in the							
			stituti		institution?							

What are the most negative aspects encountered during your study in the institution?	What are the most positive aspects encountered during your study in the institution?

جامعة القاهرة Cairo Unive		وحدة ضمان الجودة QAAU Unit	Faculty of E	کلیة الهندسة وحدة تکنولوجیا المطومات ulty of Engineering IT Unit			
	ىن البرنامج	، طلاب الفرقة النهائية ع	استبيان رأى				
	P	rogram Exit Surve	ey				
Program				البرنامج			
السن - Age	<ul><li>&lt;22 22 23</li><li>(5) (4) (3)</li></ul>	20	ذكر - M أنثي 1	الجنس - Sex			
	التقدير التراكمي – GPA	ن – D مواد – E	С- <u>с</u> в- <u>с</u> ÷ З 2				
You are kindly requeste	d to evaluate the follow	ا للتقيرات الموضحة أنناه: ing items by shading only		برجاء تقييم البنود التالية بتظليل ا rding to the key:			
(E)	(D)	(C)	(B)	(A)			
أعترض بشدة Strongly Disagree	أعترض Disagree	محايد Neutral	أواقق Agree	أوافق بشدة Strongly Agree			

E	D	с	В	A	العبارة Statement	
1	2	3	٢	5	تم توضيح أهداف البرنامج بشكل يسمح لي بانكبرف على ما يجب أن أتعلمه غلال فترة در استي Program's objectives were defined enough to allow identification of my learning goals	. י
1	2	3	٩	6	أساليب التعلم في البرنامج سا عدتني على اكتماب القدرة على التعلم الذاتي Learning methods in the program helped me acquire a self-learning ability	۲.
1	2	3	٩	6	أساليب التعلم في البرنامج تقمى مهارة العمل الجماعي Learning methods develop teamwork skills	.٣
1	2	3	٩	5	الوقت المحدد للتدريب العملي كاف لممارسة الأنشطة المعلية / الحقلية / التطبيقية واكتساب المهارات Practical training time is sufficient for laboratory / field / application and skills acquisition	÷.
1	2	3	٩	5	الكتريب العملي ساعتني في تتمية قدر اتي في مجال تخصص المقرر / المهارات المهنية Practical training helped me develop my skills in the field of my studies/ professional abilities	ه.
1	2	3	٩	5	البرنامج الدراسي أكسبني الحديد من مهارات التواصل والمهارات المهنية The educational program taught me multiple communication and professional skills	.1
1	2	3	٢	5	تم توفير تدريب ميداني كاف خلال سنوات دراستي بالكلية Sufficient field training has been provided during my study period	.v
1	2	3	٩	5	تم توفير اشراف الكنيمي أثناء فترة التدريب الميناني Academic supervision has been provided during my field training period	.^
1	2	3	٩	5	استقدت من التدريب الميداني في نتميه مهار آتي المهنية I have benefited from the field training in developing my professional skills	٩.
1	2	3	٩	6	أساليب دعم الطلاب المتعثرين دراسيا ساعدت في الارتقاء بالسنتوي الإكاديمي للطالب Support methods for students facing academic difficulties helped them improve	۰۰.
1	2	3	٩	6	انفطة التقويم (الإمتحانات، التقارير ، المشاريع) المستخدمة خلال در استى متنوعة Several Assessment tools (exams, reports, projects) are used during my study.	.11
1	2	3	٩	5	أساليب التقريم تعر عن سنترى قدراتى فى السعر فة والقهم والتفسير و التحليل Assessment tools measures properly my knowledge, understanding, interpretation and analysis	۱۲.
1	2	3	٩	5	يمَ اطلاعي على أوراق امتحاناتي الفصلية للتحرف على أخطاني والتعلم منها My periodic exams papers were made available for me in order to learn from my mistakes	.17
1	2	3	٩	5	أجد الدرجات التي حصلت عليها معبرة عن مندواي الفعلي My grades adequately reflect my academic level	.15









#### **EXIT SURVEY RESULTS**







# PERCENTAGE OF STUDENTS PARTICIPATING IN EXIT SURVEY



Cairo University Faculty of Engineering

74%



# 

**Digitization of QA Files (WHY)** 

- ~ 500 Courses
- 1 Course File ~ 250-300 sheet
- Total Sheets Printed = 125,000 Sheets
- 10 % New Sheets / Year = 1250 Sheets
- 500 Sheet = 60 LE
- Floor Space:

**Locker** = 100 cm x 40 cm x 220 cm

- 1 Locker = Max 30 Course Files
- ~ 40 50 Locker
- 1 Tree = 80,000 sheets
- \* Not to mention printing, ink, maintenance, etc.











# **DIGITIZATION OF QA FILES**



Criteria	Description
Sufficient Space / Storage	500 MB / Course ~ 300 GB
Ease of Access	Online to encourage timely response
Backup Options	Ensure local storage and archiving
Linked to Faculty IT	For security / backup
Status Update to QA Unit	Efficient follow up and identify gaps

#### **Assess Available Tools & Software**





#### **DIGITIZATION OF QA FILES**









## **DIGITIZATION OF QA FILES**



<ul> <li>Level 1 (First Year)</li> <li>Level 2 (Second Year)</li> <li>Level 3 (Third Year)</li> <li>Level 4 (Fourth Year)</li> <li>Program</li> </ul>	Course_Code - Course_Title Course_Code - Course_Title Course_Code - Course_Title Course_Code - Course_Title Course_Code - Course_Title	001_Course Specifications002_Teaching Material003_Grading Material004_Class Work Grades005_Blank Form of Instructor and ILOs Survey006_ILOs Survey Results007_Course Report008_Instructors and TAs C.V.s
-FOLDERS CREATED -CHAMPIONS CHECK -READY AFTER MODIFICATIONS	THURS. 15/2 TUES. 20/2 THURS. 22/2	009_ABET Files

FALL 2017 FILES- DEADLINE TO UPLOAD- SUN.4<sup>TH</sup> MARCH





# DIGITIZATION OF QA FILES RATIONAL TREE OF QA COURSE FILES – IN A NUTSHELL





#### FALL 2017 FILES- DEADLINE TO SUBMIT- SUN.4<sup>TH</sup> MARCH



# NAQAAE LOCAL ACCREDITATION OF ALL CUFE PROGRAMS

Step1: Application for Accreditation		Fee	<b>Ste</b> j es Pa		ent				3-(	day	ep3 -Rev ′isit		V		Step3-: 1-day- Unscheduled Visits "Maybe"	
	- Sept. '17	1	- 20	or our -	- Aug. 18	Sent '18		Mar '10		ST ann	GT. AINC -	Aug. 19	- Sept. 19	OC, Jew		
Documents Preparation NAQAAE Review of Step1 Docs Period for Payment Period for Review Visit															<b>Ready Programs</b> AER - ARC - ELC - EPM AET - STE - EEE - PPC	K SD
Documents Preparation NAQAAE Review of Step1 Docs Period for Payment Period for Review Visit									E QA						Need more effort CHE – CVE – CMP MDP – MPM – SBE – EMDP CCE – WEE – MDE - CEM	Cairo University
	·	·	Docs Submission to CUFE QA	Step1	Step1 Result	Step2 Deadline	·	Step3 Deadline	Docs Sub. to CUF	Step1	Step1 Result	Step2 Deadline		Step3 Deadline		



#### NAQAAE LOCAL ACCREDITATION **OF CUFE PROGRAMS**



SSR (Self Study Report) & LOCAL ACCREDITATION are needed from ALL PROGRAMS

**\*\*COMMUNICATION prog. In March 2018- Reaccreditation** 





Cairo University **Faculty of Engineerin** 



# ABET ACCREDITATION POTENTIAL FEASIBILITY REQUIRED DOCUMENTS

- Request a Readiness Review (RREv) –before <u>September 1.</u>
- Preliminary Self-Study Report –along with one transcript per program by <u>October 1</u> of the year before you plan to submit a Request for Evaluation (RFE).
- Transcript Include a scanned copy of one graduate's official transcript from the most recent graduating class.

#### OUTCOMES

The outcome of a Readiness Review:

- A recommendation to submit the Request for Evaluation (RFE) in the immediate upcoming accreditation review cycle.
- A recommendation to postpone.
- A recommendation not to submit.

#### **READINESS REVIEW & ABET FEES**

- The fee for a Readiness Review is <u>US \$1,000 per program</u> for a given commission.
- ABET Fees Details for <u>3 Programs equals \$120460</u>







## **ABET ACCREDITATION**

#### □ I. General Criteria (Program Coordinator, PC)

- Criterion 1 on Students
- Criterion 2 on Program Educational Objectives
- Criterion 3 on Student Outcomes
- Criterion 4 on Continuous Improvement
- Criterion 5 on Curriculum
- Criterion 6 on Faculty
- Criterion 7 &8 on Facilities & Institution support

#### □ II. Program Criteria (Program Coordinator, PC)

Please see the following link;

http://www.abet.org/accreditation/accreditation-criteria/criteria-for-

accrediting-engineering-programs-2018-2019/

- Complete preliminary Self Study report (SSR) (Program Coordinator, PC)
- Revise delivered SSR by all programs Decision to submit request (By QAAU and Dean)
- □ Request for Readiness Review (RREv). By Dean
- Preliminary SSR and Transcript. All materials must be submitted electronically to <u>ReadinessReview@abet.org</u>. By QAAU











**Move to 2019** 

SSR (Self Study Report) is needed from ALL PROGRAMS for REVIEW to decide on the READINESS LEVEL

#### **SELF ASSESSMENT WORKSHEET (ABET CRITERIA)**

#### 2016 2017 PROGRAM SELF ASSESSMENT WORKSHEET Part (1) (UCF): Clearmonolype dracky inter-and seco)

Program Name			www.curz	10000				
Program Evidenter(s)			o Chair					
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Page 1 of 2

SECONDARI SALA APREMIENTI DOGI DEL MARCO

Adequate levels of student-faculty interaction	
Adequate levels of student advising and counseling	
Adequate levels of university service activities	
Adequate levels of professional development	
Adequate levels of interaction with practitioners and employers	
Appropriate qualifications	
Sufficient authority for program guidance and implementation of processes for	
evaluation, assessment, and continuous improvement	
Overall competence (see criterion statement)	
7. FACILITIES	
Adequate to support attainment of student outcomes and provide an atmosphere	
conducive to learning: classrooms, offices, laboratories, associated equipment	
Modern tools, equipment, computing resources, and laboratories are available,	
accessible, and systematically maintained and upgraded	
Students provided appropriate guidance regarding the use of the tools, equipment,	
computing resources, and laboratories	
Adequate library services and computing and information infrastructure	
8. INSTITUTIONAL SUPPORT	
Institutional support and leadership adequate to ensure the quality and continuity of	
the program	
Institutional services, financial support, and staff adequate to meet program needs	
Sufficient to attract and retain, and provide for the continued professional	
development of a qualified faculty	
Sufficient to acquire, maintain, and operate infrastructure, facilities, and equipment	
Sufficient to provide an environment to attain student outcomes	
PROGRAM CRITERIA	
Curricular topics (if any)	
Faculty qualifications (if any)	
Other (if any):	
ACCREDITATION POLICY AND PROCEDURE MANUAL	
II.A. Public release of information by the institution or program	
II.E.4 Program names must meet ABET requirements	
II.G.6.b.(1) Facilities adequate and safe for the intended purpose	
SUPPLEMENTARY ITEMS	i i
Quality of web site	
Expected no. of graduating students for the next five years	Student
Number of staff worked previously in abet accredited programs	Faculty
Number of staff worked previously as champion in abet accredited programs	Faculty
Percentage of complete course file for the academic year 2015-2016	To be filled by QAU

2016 2017 PROGRAM SELF ASSESSMENT WORKSHEET Part (2) For each Diffairings (D), Weaknew (W) and/se Commu (C) shown on the presenting program realization without entropy of the basis for your continuum in the appropriate box. Hence provide an explanation for how to results or charge the current situation of the second statement of the second state

Program Name	Man Monane (185	
Pergram Evolusier(s)	Tean Chair	
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	Culminates in a major design experience based on knowledge and skills acquired in earlier course work and incorporating appropriate engineering standards and multiple realistic constraints	
6.	FACULTY	
	Sufficient number and competencies to cover all curricular areas	
	Adequate levels of student-faculty interaction	
	Adequate levels of student advising and counseling	
	Adequate levels of university service activities	
	Adequate levels of professional development	
	Adequate levels of interaction with practitioners and employers	
	Appropriate qualifications	
	Sufficient authority for program guidance and implementation of processes	
	for evaluation, assessment, and continuous improvement	
	Overall competence (see criterion statement)	
7.	FACILITIES	
	Adequate to support attainment of student outcomes and provide an	
	atmosphere conducive to learning: classrooms, offices, laboratories,	
	associated equipment	
	Modern tools, equipment, computing resources, and laboratories are	
	available, accessible, and systematically maintained and upgraded	
	Students provided appropriate guidance regarding the use of the tools,	
	equipment, computing resources, and laboratories	
	Adequate library services and computing and information infrastructure	
8.	INSTITUTIONAL SUPPORT	
	Institutional support and leadership adequate to ensure the quality and	
	continuity of the program	
	Institutional services, financial support, and staff adequate to meet program	
	needs	
	Sufficient to attract and retain, and provide for the continued professional	
	development of a qualified faculty	
	Sufficient to acquire, maintain, and operate infrastructure, facilities, and	
	equipment	
	Sufficient to provide an environment to attain student outcomes	
	PROGRAM CRITERIA	
	Curricular topics (if any)	
	Faculty qualifications (if any)	
	Other (if any):	
	ACCREDITATION POLICY AND PROCEDURE MANUAL	
	II.A. Public release of information by the institution or program	
	II.E.4 Program names must meet ABET requirements	Need to upgrade facilitie
	II.G.6.b.(1) Facilities adequate and safe for the intended purpose	Need to upgrade facilitie
	SUPPLEMENTARY ITEMS	
	Quality of web site	Need more professional wo
_	TOTAL TOTAL CONTRACTOR STRUCTURE (110-0)	
	TOTAL ESTIMATED EXPENSES ( US \$)	

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#### SELF ASSESSMENT WORKSHEET STATISTICS

#### TWO-SEMESTER PROGRAMS (7/12)

#### **CREDIT HOUR PROGRAMS (4/7)**





# **ACCREDITATION & NEW NARS**

#### National Academic Reference Standards (NARS)

Too Long 

2010 edition

- Very prescriptive
- Almost program ILO's
- Inhibiting and causing too much confusion
- Do not leave much room for differentiation and excellence



- More Concise
  - Competency Based
- Flexible to allow freedom and excellence
- Based on International Standards



#### The Engineering Graduate must be able to:

1. Identify, formulate, and solve complex engineering problems by applying engineering fundamentals, basic science and mathematics.

2. Develop and conduct appropriate experimentation and/or simulation, analyze and interpret data, assess and evaluate findings, and use statistical analyses and objective engineering judgment to draw conclusions.

3. Apply engineering design processes to produce cost-effective solutions that meet specified needs with consideration for global, cultural, social, economic,

environmental, ethical and other aspects as appropriate to the discipline and within the principles and contexts of sustainable design and development.

4. Utilize contemporary technologies, codes of practice and standards, quality guidelines, health and safety requirements, environmental issues and risk management principles.

5. Practice research techniques and methods of investigation as an inherent part of learning.

6. Plan, supervise and monitor implementation of engineering projects.

7. Function efficiently as an individual and as a member of multi-disciplinary and multicultural teams.

8. Communicate effectively–graphically, verbally and in writing –with a range of audiences using contemporary tools.

9. Use creative, innovative and flexible thinking and acquire entrepreneurial and leadership skills to anticipate and respond to new situations.

10. Appreciate the ongoing need to acquire and apply new knowledge and to practice self, lifelong and other learning strategies.

#### MAPPING OF NEW NARS- LEVELS A&B

#### **COURSES OF NEW CATALOG**



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NARS	А	А	Α	A	Α	Α	Α	Α	Α	А	В	В	В	В	В	С	C
Modules	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	1	2
P-0101	х	Х				х				Х							
P-0102			x				Х										
P-0103		Х						Х		x							
P-010N	Х						Х										
A-1101	Х								х		Х			x	x		
A-1102		x	x					x		x	Х				Х		
A-110N						Х	Х	x		x			х		x		
A-210N		Х		x	x	Х					х			x			x
A-310N		x			Х	x			х			x				Х	x
A-410N		Х					x	x	х			x				x	Х
	GENERAL ENGINEERING COMPETENCIES									MAJOR DISCIPLINE COMPETENCIES							
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#### CAIRO UNIVERSITY- FACULTY OF ENGINEERING



NEW COURSE CATALOG/NARS 2018

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4				obritly. Formulate, and solve complex engineering problems by applying engineering fundementatis, basis solence and mothematics.	Develop and conduct agreepides coperinentation and/or simulation, amplyin and Harport data, assesss and evaluate fredings, and total statistical energians and objective anglessing polyment to draw conclusions.	Apply employering design processes to produce cost-effective solutions that most operited needs with consideration for global cultures social concerns, environmental attitud and other expects as appropriate to the discipline and within the principles and contexts of suscended design and development.	Utilize contrarreportery technologies, codes of practice and standards, quality guidelines, health and sarrey requirements, environmented issues and risk memogeneet principles.	Precision research todiniques and mothods of investigation as an interest part of learning.	Plen, supervises and monitor implementation of engineering projects.	3	<ol> <li>Communication effectively – graphically, vertilage and in writing – with a ranger of audiences using conference tools.</li> </ol>	<ol> <li>Uses creative, innovative and flocidite thinking and acquire entropresential and keekership skills to anticipate and respond to new structures.</li> </ol>	10. Approximate the creation resolute exception and apply new horeelection and to provident and. Kelong and other learning strategies.	<ul> <li>Create architectural urban and planning designs that safely odds arealisatio and technical requirements, using adequate conservation of helicity and theory, reducid free aris, local culture and heritage, technicagies and furrent sciences.</li> </ul>	2. Produce designs that meet building users' requirements through understanding the reddonskip between people and buildings, and between buildings and their environment, and the need to reduce buildings and the spaces between them to human meets and social.	<ol> <li>Generate exclusion the second of environmental conservation and introduction designs. Uncough understanding of structural design, construction, feedwards, and engineering problems associated with tablets designs.</li> </ol>	4. Transien design correspondent traitings, and integrate plane into owned planning which the constraints of project financing project merospannels, cost control and methods of project delivery, while hering adoptation formelogies of industries, organizations, ingulations and procedures involved.	4. Propero design project briefs and documents, and understand the context of the architect in the construction industry. Industry the architects role in the processes of bibling procurement of architectural services and building production.	
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# 2018 ON GOING QUALITY PROCEDURES OF PROGRAMS

- مناقشة عملية واقتراحات التحفيز <u>لمنسقى</u>
- <u>الحودة بالأقسام والبرامج</u> لعرضها على إدارة الكلية وذلك من خلال:-
- إحتساب أعمال الجودة 3 ساعات أسبوعيا (بدلاً من 2 ساعة).
  - يتم أضافة 5 درجات لمنسقى الجودة بحد أقصى من مجموع درجات الترقيه بحيث لايتعدى أجمالى الدرجات 20 درجة.
    - عمل مكافأت شهرية لكل عضو.
      - مراعاة تخفيض المراقبات.











#### - QAAU BOOKLET- for staff members

- QAAU FLYER- for students
- QAAU BYLAWS REVIEW
- CUFE STRATEGIC PLAN 2015-2020

