



Architecture Engineering

Program Specification



Higher Institute of Engineering and Technology at Manzalla Established by Ministerial Resolution No. (2354) of 2019 Architectural Engineering Program



1. Basic Information:

Program Title (according to what is stated in the bylaw):	Architecture Engineering Program Specification
Total number of credit hours/points of the program:	276
Number of academic years/levels (expected program duration):	10 semesters (5-years)
Department (s) Participating (if any) in teaching the program:	Basic Science Department Civil Engineering Department Architectural Engineering Department
Faculty/Institute:	Higher Institute of Engineering and Technology at Manzalla
University/Academy:	Manzalla Academy
Program majors/divisions/tracks/specialties in the final year (if any):	Architectural Engineering Program
Partnerships with other parties and the nature of each (if any):	N/A
Name of the program coordinator (attach the assignment decision):	Prof. Dr / Tarek AbouOuf
Program Specification Approval Date:	16 August 2025
Council responsible for Program Specification Approval (Attach the Decision / Minutes):	Institute Council No. (12) on 16 August 2025

2. Program Aims

- ربعليم العالى
- 1. Acquire a broad range of engineering knowledge and specific skills, as well as the ability to apply learned knowledge in real-world problems through theories and abstract thinking.
- 2. Utilize analytical, critical, and systemic thinking to effectively identify, diagnose, and resolve engineering problems that exhibit a diverse range of complexity and variability.
- 3. Demonstrate professional conduct and adhere to the ethical principles and standards set forth in the field of engineering.
- 4. Collaborate within a diverse team of professionals from various engineering disciplines,

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effectively assuming both individual and collective responsibility for performance and leadership.

- 5. Acknowledge the importance of promoting the engineering field and actively contribute to its development, as well as making positive contributions to the community at large.
- Recognize the significance of the environment, both physical and natural, and endeavor to promote sustainability principles
- 7. Use the essential techniques, skills, and current engineering tools to practice engineering.
- 8. Assume complete responsibility for own learning and growth, engage in lifelong learning, and demonstrate the ability to pursue postgraduate and research opportunities.
- 9. Demonstrate effective communication skills by utilizing diverse modes, tools, and languages to engage with different audiences. Approach academic and professional challenges in a critical and creative manner, utilizing effective communication strategies.
- 10. Demonstrate leadership capabilities, business administration, and entrepreneurship skills.

3. Program Structure (Curriculum)

3.1. Program Components

Requiren	nent Category/Type	Number of Courses	Number of Credit Hours/Points	Percentage from the total number of hours/points
University Requireme	ents	4	10	3.6 %
Faculty/College Requ	irements (if applicable)	18	79	28.7 %
Program's General Re	equirements	22	105	38 %
Program's Specialized		15	82	29.7 %
Requirements of the n specializations in the	najors/ divisions/ tracks	-		
	Field Training	% -		
	Graduation Project	1	14	5.1 %
Other requirements	Mandatory training year]]-		
	Other (to be mentioned)			

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Requirement Category/Type	Number of Courses	Number of Credit Hours/Points	Percentage from the total number of hours/points
Total Compulsory Courses	55	260	94.2 %
Elective Courses	4	16	5.8 %
Total	59	276	100 %

3.2. Program courses according to the expected study plan

Academic	Semester			Course Type	Requirement	Number of		umber of ekly Hours	
Level	(Fall / Spring)	Course Code	Course Title	(Compulsory / Elective)	Category/ Type	Credit Hours/ Points	Theoretical teaching	Practical training	Other
Preparatory	First Semester	BS011	Engineering Mathematics (1)	Compulsory	Institute Requirements	4	2	2	
Preparatory	First Semester	BS012	Physics (1)	Compulsory	Institute Requirements	4	2	2	
Preparatory	First Semester	BS013	Mechanics (1)	Compulsory	Institute Requirements	4	2	2	
Preparatory	First Semester	MEC014	Engineering Drawing and Projection (1)	Compulsory	Institute Requirements	7	3	4	
Preparatory	First Semester	BS015	Introduction to Computer and Programming	Compulsory	University Requirements	4	2	2	
Preparatory	First Semester	BS016	English Language (1)	Compulsory	University Requirements	2	2	-	
Preparatory	second Semester	BS021	Engineering Mathematics (2)	Compulsory	Institute Requirements	4	2	2	
Preparatory	second Semester	BS022	Physics (2)	Compulsory	Institute Requirements	4	2	2	
Preparatory	second Semester	BS023	Mechanics (2)	Compulsory	Institute Requirements	4	2	2	
Preparatory	second Semester	MEC024	Engineering Drawing and Projection (2)	Compulsory	Institute Requirements	5	3	2	
Preparatory	second Semester	BS025	Chemistry	Compulsory	Institute Requirements	4	2	2	
Preparatory	second Semester	MEC026	Production Engineering	Compulsory	Institute Requirements	5	2	3	
Preparatory	second Semester	BS027	Engineering and	Compulsory	University Requirements	2	2	-	
First level	First Semester	ARE111	Architectural Design ((I)	Compulsory	Program's General	6	2	4	
First level	First Semester	ARE112	Building construction. (1)	Compulsory	Program's General	6	2	4	

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Academic Level	Semester (Fall /	Course Co. 1	0	Course Type	Requirement	Number of		umber of ekly Hours	
Level	Spring)	Course Code	Course Title	(Compulsory / Elective)	Category/ Type	Credit Hours/ Points	Theoretical teaching	Practical training	Other
First level	First Semester	BS 111	Mathematics, Statistics and Programming	Compulsory	Institute Requirements	4	2	2	
First level	First Semester	ARE113	History & Theory of Architecture (1)	Compulsory	Program's General	3	3	-	
First level	First Semester	CIVA 111	Theory of Structures	Compulsory	Institute Requirements	4	2	2	
First level	First Semester	CIVA 112	Surveying	Compulsory	Institute Requirements	5	2	3	
First level	Second Semester	ARE121	Architectural Design (2)	Compulsory	Program's General	6	2	4	
First level	Second Semester	ARE122	Building construction (2)	Compulsory	Program's General	6	2	4	
First level	Second Semester	ARE123	Visual Training	Compulsory	Program's General	5	2	3	
First level	Second Semester	ARE124	Shade & Perspective	Compulsory	Program's General	5	2	3	
First level	Second Semester	CIVA 121	Properties and test of material	Compulsory	Program's General	5	3	2	
First level	Second Semester	ARE 125	Technical Reporting	Compulsory	University Requirements	2	2	-	
Second level	First Semester	ARE 211	Architectural Design (3)	Compulsory	Program's General	6	2	4	
Second level	First Semester	ARE 212	Computer applications in architecture (1)	Compulsory	Program's General	4	2	2	
Second level	First Semester	ARE 213	Building construction (3)	Compulsory	Program's General	6	2	4	
Second level	First Semester	ARE 214	History & Theory of Architecture (2)	Compulsory	Program's General	3		3	
Second level	First Semester	ARE 215	History of city planning	Compulsory	Program's General	3	-	3	
Second level	First Semester	CIVA 211	Reinforced Concrete Structures	Compulsory V	Institute Requirements	4	2	2	
Second level	Second Semester	ARE 221	Architectural Design (4)	computery	Program's General	6	2	4	
Second level	Second Semester	ARE 222	Building construction (4)	Compulsory	Program's General	6	2	4	
Second level	Second Semester	ARE 223		Compulsory	Program's pecialized	5	2	3	
Second level	Second Semester	ARE 224	Building physics and environmental control	Compulsory	Program's General	4	2	2	

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Number Number of Academic Semester Course Type Requirement of Weekly Hours (Fall / Level Course Code Course Title (Compulsory Category/ Credit Theoretical Practical Spring) / Elective) Type Hours/ Other teaching training **Points** Computer Second Second Program's ARE 225 applications in Compulsory 4 2 2 level Semester General architecture (2) Second Second Institute Steel structures Compulsory 4 2 2 CIVA221 level Semester Requirements Architectural First Program's Third level ARE 311 Compulsory 6 2 4 Semester design (5) General Executive designs First Program's Third level ARE 312 Compulsory 5 1 4 Semester Specialized Urban planning and First Program's Third level ARE 313 Compulsory 6 2 4 Semester design Specialized History & Theories First Program's Third level ARE314 Compulsory 3 3 Semester of Architecture (3) General First Institute Third level CIVA311 Foundations Compulsory 4 2 2 Semester Requirements Third level ARE 31XE Elective list (1) Environmental First Program's Third level **ARE 311E** Elective 4 2 2 Semester design Specialized Computer aided First Program's Third level **ARE 312E** Elective 4 2 2 Semester design Specialized First Advanced building Program's Third level **ARE 313E** Elective 4 2 2 Semester technologies Specialized Architectural Second Program's Third level ARE 321 Compulsory 7 2 5 Semester design (6) Specialized Executive designs Second Program's Third level ARE 322 Compulsory 5 4 Semester Specialized (2)Second Housing and urban Program's Third level ARE 323 Compulsory 4 2 2 Semester design (1) Specialized Technical Second Program's Third level ARE 324 installations for Compulsory 4 2 2 Semester General buildings Sanitary Second Institute Third level CIVA 321 4 2 2 Semester Requirements ARE 32XE Flective list (2) Third level Second Program's Third level **ARE 321E** ipe design 4 2 2 Semester Specialized Second Program's Third level **ARE 322E** 4 2 2 Semester Specialized and maintenan Second Program's Third level **ARE 323E** 4 2 2 Semester Specialized management

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Academic	Semester			Course Type	Requirement	Number of		umber of ekly Hours	
Level	(Fall / Spring)	Course Code	Course Title	(Compulsory / Elective)	Category/ Type	Credit Hours/ Points	Theoretical teaching	Practical training	Other
Fourth level	First Semester	ARE412	Architectural design (7)	Compulsory	Program's General	6	1	5	
Fourth level	First Semester	ARE411	Executive designs (3)	Compulsory	Program's Specialized	5	1	4	
Fourth level	First Semester	ARE413	History & Theories of Architecture (4)	Compulsory	Program's General	3	3	-	
Fourth level	First Semester	ARE414	Interior design	Compulsory	Program's General	4	2	2	
Fourth level	First Semester	ARE 415	Urban Planning (2)	Compulsory	Program's Specialized	5	2	3	
Fourth level			AR	E 41XE Electi	ve list (3)				
Fourth level	First Semester	ARE 411E	Architectural criticism and competition	Elective	Program's Specialized	4	4	-	
Fourth level	First Semester	ARE 412E	Advanced architectural design	Elective	Program's Specialized	4	4	*	
Fourth level	Second Semester	ARE 421	Housing and urban design (2)	Compulsory	Program's Specialized	6	2	4	
Fourth level	Second Semester	ARE422	Specifications, quantities & quality control	Compulsory	Program's Specialized	4	2	2	
Fourth level			AR	E 42XE Electi	ve list (4)				
Fourth level	Second Semester	ARE 421E	Detailed planning	Elective	Program's Specialized	4	2	2	
Fourth level	Second Semester	ARE 422E	Urban renovation and upgrading	Elective	Program's Specialized	4	2	2	
Fourth level	Second Semester	ARE423	project	Elective	Program's Specialized	14	4	10	

4. Academic Standards

4.1. Adopted Academic Standards (N. 1837 RS): NARS

The reference for standards considered in the development of this program is National Academic Reference Standards for Engineering (NARS 2018) which is adopted and approved by institute council in 10 December 2022 meeting No. (3).

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4.2. Date of Adoption of Standards in the governing Council

Adopted and approved by department council on 10 November 2022 meeting No. 3 and faculty council on 2022/11/20 meeting No. 3

4.3. Program Competencies

A. General Competencies of Engineering Graduate

- A1. Identify the concepts and theories of mathematics and sciences related to Architectural engineering to solve complex engineering problems.
- A2. Design and execute suitable experiments or simulations, analyze and interpret data, assess and appraise the results, and employ statistical analysis and unbiased engineering judgment to derive conclusions.
- A3. Utilize engineering design methodologies to create economical solutions that fulfill defined requirements, taking into account global, cultural, social, economic, environmental, ethical, and relevant considerations within the framework of sustainable design and development principles.
- A4. Employ modern technologies, adhere to industry codes of practice and standards, follow quality guidelines, prioritize health and safety requirements, address environmental concerns, and apply principles of risk management.
- A5. Incorporate research techniques and investigative methods as an integral aspect of the learning process.
- A6. Plan, conduct and write a technical report on a project considering related trade's needs.
- A7. Collaborate effectively both independently and as a valuable member of multidisciplinary and culturally diverse teams.
- A8. Effectively communicate with a variety of audiences using modern tools, whether through graphical, verbal, or written means:
- A9. Develop innovative solutions and acquire entrepreneurial skills for the practical industrial problems and response to new situations.
- A10. Sustain self-management and time management skills, remain adaptable in the face of change and conflicting conditions and commit to lifelong self-improvement and learning.

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B- Architecture learning outcomes (Level B)

- B.1 Prepare and develop architectural, urban, and planning designs that meet aesthetic and technical criteria, drawing upon comprehensive knowledge of history, theory, related fine arts, local culture and heritage, technology, and human sciences.
- B.2 Create designs that achieve the needs of building users by comprehending the interaction between people and structures, as well as the connection between buildings and their surroundings. Additionally, consider the importance of aligning buildings and the spaces between them with human requirements and scale.
- B.3 Produce environmentally conscious, conservation-oriented, and rehabilitation-focused designs with a firm grasp of structural design, construction methods, technology, and engineering challenges that are inherent in building designs.
- B.4 Transform design concepts into actual buildings and incorporate plans into comprehensive planning processes, considering limitations such as project financing, project management, cost control, and project delivery methods. This should be done with a solid understanding of the relevant industries, organizations, regulations, and procedures involved.
- B.5 Compose design project briefs and documents while comprehending the architect's position within the construction industry. This includes understanding the architect's role in processes like bidding, the procurement of architectural services, and building production.



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5. Matrix of Academic Standards (Program Outcomes POs) with Courses:

	0.1						Pro	gram	Lear	ning o	outcom	ies (P	LO's							
	Code	Course Name					_A-	Level							B- Le	vel		Code	Course Name	
	BS011	Engineering Mathematics (1)	1	2	3	4	5	6	7	8	9	10	1	2	3	4	- 5			
III.	BS012		X		+	+	-	-	-	-	+	-	-					BS011	Engineering Mathematics (1)	Béri
	BS013		X		-	+	-	+	-	-	+	-	-	-	-	-	-	BS012	Physics (1)	
	MEC014		_ A		X	+	+	+-	-	W	+	-	-	-	-	-	-	BS013	Mechanics (1)	
2			X		A	+	X	+	-	X	-	-	-	-	-	-	-	MEC014	Engineering Drawing and Projection (1)	
Prepatory	BS016	English Language (1)	1			-	A	+	-	X	+	-	\vdash	-	-	-	-	BS015	Introduction to Computer ans Programming	C
33	BS021	Engineering Mathematics (2)	X		+	_	+	-	_	A	_		-	-	-	_	-	BS016	English Language (1)	1 2
ē	BS022	Physics (2)	X				-	+	-	-	-	-	-		-	-	-	BS021	Engineering Mathematics (2)	Prepatory
<u>-</u>	BS023		X		1		+	+	+	+-	+	_	+-	-	-	-	-	BS022	Physics (2)	re
	MEC024				X			-		X	1			-	+-	-	-	BS023	Mechanics (2)	Ь
	BS025		X	X				+	X	A	1	_	-	-	-	-	-	MEC024	Engineering Drawing and Projection (2)	951
	MEC026	Production Engineering	-	X	X		1	1	-28		1		-		-	-	-	BS025 MEC026	Chemistry	
	BS027	Engineering and Environment		- 1	1	X	1	_	X	_	1	-			-	-	-	BS027	Production Engineering	616
	ARE111	Architectural Design (1)					X	+	A		$\overline{}$		-	X	X	-	-	ARE111	Engineering and Environment	100
	ARE112				1	X	- 1	+	_	-	\vdash		-	A		v			Architectural Design (1)	_
	BS 111		X		X	- 1	1	X		-	\vdash	_	-		X	X	-	AREI12	Building construction (1)	
	ARE113		-		X	-	-	-3%	_	X	-	_	-	**	**	-	-	BS 111	Mathematics, Statistics and Programming	
Year	CIVA III		_	+	X		X	-	-	A	1	_	- N	X	X	-	_	ARE113	History & Theory of Architecture (1)	-
چا	CIVA 112		X	X	A	-	A	v	**	-			X	_	_	-	_	CIVIII	Theory of Structures	ca ca
+	AREI21		1	A	v		-	X	X	-	\vdash	_						CIV112	Surveying	First Year
First	ARE121		-	-	X	-	-		X		-			X	X			ARE121	Architectural Design (2)	st
1	ARE123		+	-	-	-		X	-	-		X		X			X	ARE122	Building construction (2)	1
	ARE123		-		-		-	X	X			X	X					ARE123	Visual Training	-
	CIVA 121		+	X		-	-					X		X				ARE124	Shade & Perspective	
100	ARE 125		-	-		X		X										CIV121	Properties and test of material	
			_	-			X			X								ARE 125	Technical Reporting	
	ARE 211						X					X		X				ARE 211	Architectural Design (3)	
	ARE 212	The state of the s			X	X									X			ARE 212	Computer applications in architecture (1)	
	ARE 213				X			X						X	X			ARE 213	Building construction (3)	-
Second Year	ARE 214					X	X						X					ARE 214	History & Theory of Architecture (2)	
ž	ARE 215					X	X					X	X					ARE 215	History of city planning	Vear
7	CIVA 211		X	X	X							X						CIVA 211	Reinforced Concrete Structures	-
n	ARE 221						X						X	X	X			ARE 221	Architectural Design (4)	Second
2	ARE 222				X	X								X	X			ARE 222	Building construction (4)	- ō
S.	ARE 223	Urban design										X	X		X	X		ARE 223		3
	ARE 224	Building physics and environmental control			X							X		X	X	- 1	-	ARE 224	Urban design	S
	ARE 225	Computer applications in architecture (2)				X	X				\rightarrow	A	_	X	X	_		ARE 224	Building physics and environmental control	
	CIVA221		X	X			- 24			-	\rightarrow	X	X	A	A	-	_		Computer applications in architecture (2)	
E Con-	ARE 311		1		-		X		-	\rightarrow	_	A		v	v	_	_	CIVA221	Steel structures	0.000
	ARE 312		_		X		^			-		-	X	X	X			ARE 311	Architectural design (5)	- Filter
	ARE 313	Urban planning and design	+		A	_	_		X	-		-			X	X	_	ARE 312	Executive designs (1)	
	ARE314	History &Theories of architecture (3)	-	-		37	***	-	_	_	X	_	X	X				ARE 313	Urban planning and design	
	CIVA311	Foundations		-	_	X	X			_			Y					ARE314	History &Theories of architecture (3)	
	ARE 31XE		X							X	X	-	100	X	S (Carried			CIVA311	Foundations	
-										1		-		J/z	200	8		ARE 31XE	Elective list (1)	
Third Year	ARE 311E					X				60	77	600	Sulfa	Y	1			ARE 311E	Environmental design	=
7	ARE 312E		_			X			_	6	2.5			X	1	18	8	ARE 312E	Computer aided design	i a
7	ARE 313E					X			E	100	1	1	7	X	0	603		ARE 313E	Advanced building technologies	1
-=	ARE 321		_				X		MA	11	1		X	·X	X	1:	4/	ARE 321	Architectural design (6)	- 5
E	ARE 322	Executive designs (2)			X				11	13	40	10		X,	X	X	1	ARE 322	Executive designs (2)	Third Year
	ARE 323	Housing and urban design (1)	-						181	्रेन	1	X	X.	X		·X	. 43	ARE 323	Housing and urban design (1)	-
81	ARE 324 CIVA 321		-			X		X	1	1 1		4	1.	-	-		X	ARE 324	Technical installations for buildings	
		Sanitary engineering Elective list (2)				X		- I		ا بند		X.1	- : "		X			CIVA 321	Sanitary engineering	
		Landscape design	1		v	-			1	W (1)	A	1	-	1				ARE 32XE	Elective list (2)	
	ARE 322E				X	-	-	_	1	X	100	Sale,	Section 1	X				ARE 321E	Landscape design	
	ARE 323E				X		-	**	1	30.3	1		3.5	_		X	X	ARE 322E	Urban conservation and maintenance	
	ARE 323E	The state of the s	+		_			X	X	X	11							ARE 323E	Architectural Project's management	file.
	ARE411	Architectural design (7)	-				X			1	100		X	X	X		X	ARE412	Architectural design (7)	
		Executive designs (3)	-		X						X			X	X			ARE411	Executive designs (3)	
	ARE413	History &Theories of architecture (4)				X	X						X					ARE413	History &Theories of architecture (4)	
	ARE414	Interior design								X				X		X	X	ARE414	Interior design	
Year		Urban Planning (2)			X								X			X		ARE 415	Urban Planning (2)	-
ابر	ARE 41XE	Elective list (3)		la la co			Hall	45,119										ARE 41XE	Elective list (3)	Vear
=	ARE 411E	Architectural criticism and competition			X			X				T		X		X		ARE 411E	Architectural criticism and competition	1
Fourth	ARE 412E				X			X						X		X		ARE 412E	Advanced architectural design	=
5	ARE 421	Housing and urban design (2)			X				X					X		X		UPL 412	Housing and urban design (2)	Fourth
=	ARE422	Specifications, quantities & quality control	X						-			x			-	X	X	ARE422		.0
	ARE 42XE	Elective list (4)						Ne Ve		1000		^		1000		Α	Α	ARE 42XE	Specifications, quantities & quality control	-
	ARE 421E	Detailed planning		T	X	T	T	T	X	T	-	T	-	X	-	v			Elective list (4)	
	ARE 422E	Urban renovation and upgrading			X	-	\rightarrow	-	X	+	-	+	-		-	X	\rightarrow	ARE 421E	Detailed planning	
						_			-3			- 1		X		X	- 1	ARE 422E	Urban renovation and upgrading	
		project									V			X	X	X	X	ARE423	project	1000

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6. Teaching and Learning strategies/methods to achieve Program Outcomes:

- ✓ Face to face lecture
- ✓ Online education
- ✓ Tutorial / Exercise
- ✓ Group Discussions
- ✓ Laboratory

- ✓ Site Visit
- ✓ Presentation
- ✓ Mini Project
- ✓ Research and Reporting (Self Learning)
- ✓ Brainstorming

	ies				Tea	ching an	d learnir	ng metho	ds		
Program competencies		Program competen Face to face lecture		Online education Tutorial / Exercise		Laboratory	Site Visit	Presentation	Mini Project	Research and Reporting (Self Learning)	Brainstorming
	A1	x	х	х							
	A2				Х	X			X	X	
	A3	X	х	Х		X					X
	A4	X	X	X		X	X				
Level A	A5						X			X	X
Lev	A6				х	х			X		X
	A7				х			X		x	X
	A8				Х		RAN	X			
	A9				X A	40	0			X	X
	A10					CV		Va .		X	X
	B1	х		х	(E)	N H	X	B	X		100
~	B2							X	X	X	X
Level B	В3	х			Х		AL ST		X	X	X
د	B4	x					х	х		X	X
	B5			x			x	x	-	A	X

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7. Student Assessment strategies/methods to verify and ensure students' acquisition of Program Outcomes:

- ✓ Written exam
- ✓ Online exam
- ✓ Oral Exam
- ✓ Quizzes
- ✓ Lab Exam

- ✓ Research Assignments
- ✓ Reporting Assignments
- ✓ Project Assignments
- ✓ In-class Questions

	S				. A	Assessmer	nt methods			
Drogram	competencies	Written exam	Online exam	Oral Exam	Quizzes	Lab Exam	Research Assignments	Reporting Assignments	Project Assignments	In-class Onestions
	A1	X			х		x	X		X
	A2			x	-	х	x	X		
	A3	Х			x				X	
	A4	X			X	x	X			
4	A5						X			X
Level A	A6					X	x	X	x	X
	A7						x	X	X	
	A8			X			x	x	X	
	A9			x					1270	X
	A10				-77 6	عايم العا	/x		x	x
	B1				I got C	X	(A)	x	X	X
В	B2				0	av -	DA	_	x	
Level B	В3	X		F		4		X	x	x
7	B4				(U)			x	X	
	B5	х						x	x	

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8. Program Key Performance Indicators (if any)

No.	Performance Indicator	Target Level	Method	Measurement
1.	N/A	N/A	N/A	N/A

Name & Signature Program Coordinator

Name & Signature Vice Dean for Education

and Student Affairs

Prof. Dr / Tarek Abou Ouf

Prof Dr. Ali Samir Awad



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