



Program Specification

(Bachelor)

Program:	Architectural Engineering Technology
Program Code (as per Saudi university ranking):	073103
Qualification Level:	Level 5
Department:	Not Available
College:	Applied College
Institution:	Umm Al-Qura University (UQU).
Program Specification:	New <input type="checkbox"/> updated* <input checked="" type="checkbox"/>
Last Review Date:	write here

*Attach the previous version of the Program Specification.

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A. Program Identification and General Information

1. Program's Main Location :

Umm Al Qura University - Azizia

2. Branches Offering the Program (if any):

N/A

3. Partnerships with other parties (if any) and the nature of each:

N/A

4. Professions/jobs for which students are qualified

- Practicing as professional Technical (assistant) architects either in the private sector or in public agencies,
- Carry out multiple architectural tasks from inception through programming in construction sites as a assistant
- Technical Architects and coordinators of construction documents in field.
- Real State Architecture specialists.
- Practicing as professional Technical computer drawing (A.CAD & Adobe Photoshop).

5. Relevant occupational/ Professional sectors:

Architectural engineering sector.

6. Major Tracks/Pathways (if any):

Major track/pathway	Credit hours (For each track)	Professions/jobs (For each track)
1. Architectural Technology	60 (h)	<ul style="list-style-type: none"> • Engineering offices • Engineering departments in government agencies • Technical offices • Real Estate Marketing contracting companies • Technical offices

7. Exit Points/Awarded Degree (if any):

exit points/awarded degree	Credit hours
1. N/A	
2.	
3.	

8. Total credit hours: (60)



B. Mission, Objectives, and Program Learning Outcomes

1. Program Mission:

Preparing a trained and qualified applied architectural technical cadre to ensure quality and achieve competitiveness To meet the evolving needs of the labor market and the vision of the Kingdom.

2. Program Goals:

- Providing trained technical cadres to achieve self-sufficiency in the field of architecture and construction in line with the Kingdom's vision 2030.
- Cooperating with the private sector to exchange strengths and support weaknesses in order to improve the quality of the architectural educational process.
- Expand the use of e-learning, teaching methods and modern assessment.
- Follow the method of continuous development of the offered study programs in line with the societal needs and the requirements of the labor market.
- Providing the opportunity for distinguished students with high rates to join the labor market in distinguished places in coordination with the college, in addition to providing the opportunity to complete their studies for a bachelor's degree.
- Linking the program to the labor market by holding meetings and making periodic visits to employers.

3. Program Learning Outcomes*

Knowledge and Understanding

K1	Describe and Identify the principles and concepts of basic architectural themes and design process.
K2	Identify principals of engineering projection and architectural mathematics
K3	Explain the theories of architectural design, architectural drawing, construction process and related technology in the professional fields.

Skills

S1	Solve design problems, using the skills of problem identification, research and information gathering, analysis, and generation of alternative solutions. considering environment and community.
S2	Solve architectural problems by raise questions, argue abstract ideas and test various alternatives to reach well-reasoned conclusions.
S3	Apply the fundamental principles in precedents to apply such principles into architecture design projects.



S4	Communicate persuasively through written, verbal, graphic, analogue and digital tools.
S5	Match the theoretical courses related to architectural design with the design concept considering environment and community.

Values, Autonomy, and Responsibility

V1	Work independently and collaboratively to explain, evaluate and solve problems related to architectural design during design and construction process.
V2	Use appropriate representational media (traditional and digital) technology skills to formulate a comprehensive architectural project in field of work/ profession.
V3	Demonstrate awareness of and sensitivity to visual, auditory, and tactile effects.
V4	reflect a deep sense of leadership and responsibility to the culture and a sustainable community.
V5	Demonstrate mental physical coordination to create and develop design solutions.
V6	Keep pace with advanced knowledge in the field of work/profession.

* Add a table for each track or exit Point (if any)

C. Curriculum

1. Curriculum Structure

Program Structure	Required/ Elective	No. of courses	Credit Hours	Percentage
Institution Requirements	Required	N/A		
	Elective	N/A		
College Requirements	Required	1	8	13%
	Elective	3	6	10%
Program Requirements	Required	13	40	67%
	Elective	N/A		
Capstone Course/Project		N/A		
Field Training/ Internship		1	6	10%
Residency year		N/A		
Others		N/A		
Total			60	100%

* Add a separated table for each track (if any).

2. Program Courses

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College, or Program)
Level 1		Islamic Culture	R		2	C
		English Language 1	R		4	C
	APAR01	Architecture Drawing Studio	R		5	P



Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College, or Program)
	APAR02	Architectural Presentation	R		5	P
	APAR03	Properties of Materiel	R		2	P
Level 2		Technology	R		2	C
		English Language 2	R		4	C
	APAR11	Architectural Design Studio	R	Architecture Drawing Studio	5	P
	APAR12	Drawing Vector-based	R		3	P
	APAR13	Environmental control systems	R		2	P
	APAR14	Design methods and processes	R		2	P
		Professional skills	R		2	C
Level 3	APAR21	Graphics Executive design Studio	R	Architectural Design Studio	5	
	APAR22	Computerized architectural rendering	R	Vector-based Drawing	3	P
	APAR23	Specifications and Quantities	R		2	P
	APAR24	Site survey	R		2	P
	APAR25	Finishing Materials & Technical Equipment	R		2	P
	APAR26	Construction Systems in Architecture	R		2	P
Level 4	APAF01	Applied Field Training	R		6	P

* Include additional levels (for three semesters option or if needed).

** Add a table for the courses of each track (if any)





3. Course Specifications:

Insert hyperlink for all course specifications using NCAAA template (T-104)

[توصيف المقررات](#)

4. Program learning Outcomes Mapping Matrix:

Align the program learning outcomes with program courses, according to the following desired levels of performance (*I = Introduced & P = Practiced & M = Mastered*).

Course code & No.	Program Learning Outcomes													
	Knowledge and understanding			Skills					Values, Autonomy, and Responsibility					
	K1	K2	K3	S1	S2	S3	S4	S5	V1	V2	V3	V4	V5	V6
APAR01	I		I		I	I				I			I	
APAR02		I		I			I	I		I		I		I
APAR03	I					I			I		I			
APAR11	P		P	P	P		P	P	P	P		P		P
APAR12	P			P		P				P				
APAR13	P	P			P		P		P					
APAR14	M		M	M		M	M			M			M	
APAR21	M	M	M		M	M			M		M	M		M
APAR22	P		M		P		M		P				M	
APAR23	P	P			P		M			P			M	
APAR24	P		P		P		M				P			P
APAR25	P		P		P		P		P	P				
APAR26	P	P		P	P		P		M	M				
APAF01	P	P				M		M	P	M	P	M		

* Add a separated table for each track (if any).

5. Teaching and learning strategies applied to achieve program learning outcomes.

Describe teaching and learning strategies, including curricular and extra-curricular activities, to achieve the program learning outcomes in all areas.

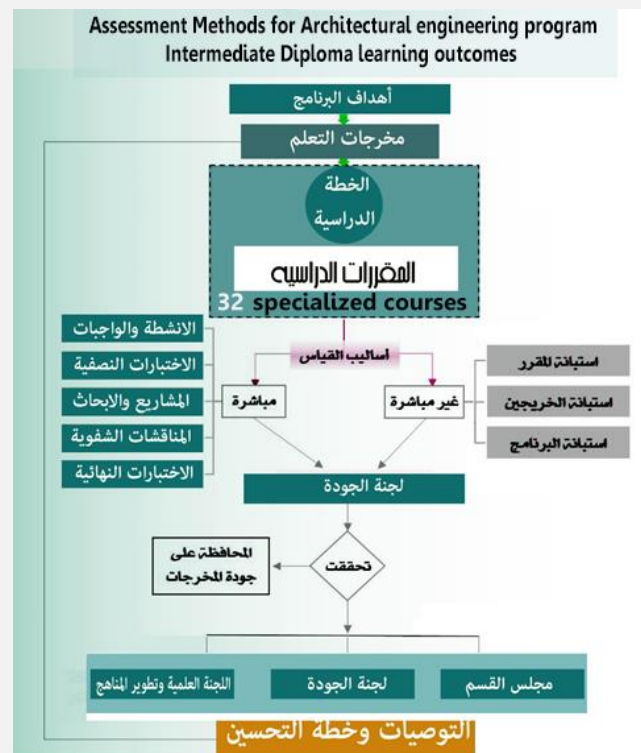
Teaching methods include: lecture, debate, small group work, whole group and small group discussion, research activities, lab demonstrations, projects, discussions, role playing, case studies, guest speakers, individual presentation, brainstorming, and a wide variety of hands-on student learning activities.

6. Assessment Methods for program learning outcomes.

Describe assessment methods (Direct and Indirect) that can be used to measure the achievement of program learning outcomes in all areas.

The program should devise a plan for assessing Program Learning Outcomes (all learning outcomes should be assessed at least twice in the bachelor program's cycle and once in other degrees).





D. Student Admission and Support:

1. Student Admission Requirements

https://drive.uqu.edu.sa/_/dadregis/files/homePage/EDU.pdf

2. Guidance and Orientation Programs for New Students

(Include only the exceptional needs offered to the students of the program that differ from those provided at the institutional level).

https://drive.uqu.edu.sa/_/dadregis/files/homePage/EDU.pdf

3. Student Counseling Services

(Academic, professional, psychological and social)

(Include only the exceptional needs offered to the students of the program that differ from those provided at the institutional level).

Faculty members are responsible for the academic advising of an assigned group of students. Academic advising consists primarily of course selection and of creating a semester schedule for each student based on the department's course offering and the student's academic needs and abilities.

Students encountering academic or psychological problems are also Referred to the institutional counseling services.

4. Special Support

(Low achievers, disabled, gifted, and talented students).



- The student building is equipped with ramps for the entrances and an elevator for people with special needs (disabled).
- Bathrooms are equipped with toilets for the handicapped.

E. Faculty and Administrative Staff:

1. Needed Teaching and Administrative Staff

Academic Rank	Specialty		Special Requirements / Skills (if any)	Required Numbers		
	General	Specific		M	F	T
Professor						
Associate Professor						
Assistant Professor						
Lecturer						
Teaching Assistant						
Technicians and Laboratory Assistant						
Administrative and Supportive Staff						
Others (specify)						

F. Learning Resources, Facilities, and Equipment:

1. Learning Resources

Learning resources required by the Program (textbooks, references, and e-learning resources and web-based resources, etc.)

Staff suggests references adequate to their courses and the faculty library and university library deliver them, and the faculty library has access to university library data base which linked with the adequate scientific web data base.
Staff were Asked to suggest references adequate to their courses and the faculty requirements delivered by university.

2. Facilities and Equipment

(Library, laboratories, classrooms, etc.)

The college has a variety of classes of capacity from 36-60 students - computer labs - drawing studios - the library



3. Procedures to ensure a healthy and safe learning environment

(According to the nature of the program)

The college contains the safety factors required from the escape exits, fire extinguishers, gathering points and toilets, in addition to a distinctive ventilation and air conditioning system.

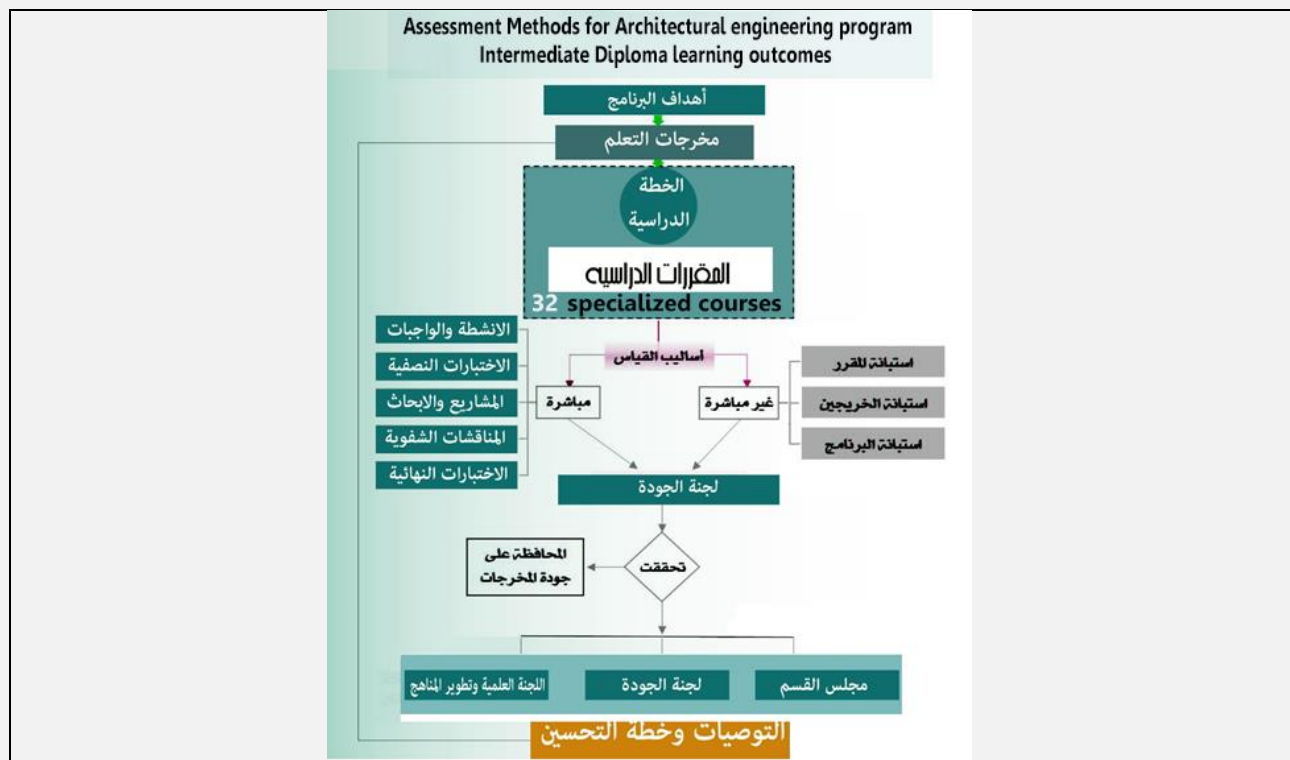
G. Program Quality Assurance:

1. Program Quality Assurance System

Provide a link to quality assurance manual.

According to faculty quality assuring system

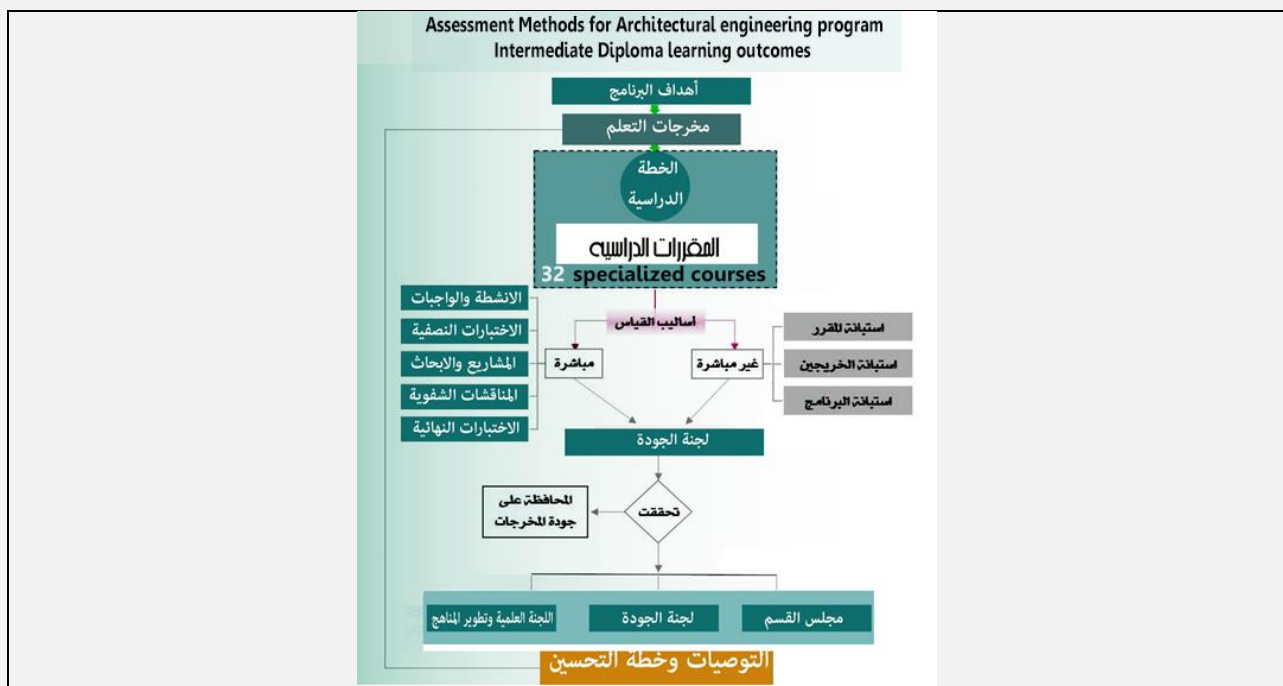
2. Procedures to Monitor Quality of Courses Taught by other Departments



3. Procedures Used to Ensure the Consistency between Main Campus and Branches (including male and female sections).

N/A

4. Assessment Plan for Program Learning Outcomes (PLOs),



5. Program Evaluation Matrix

Evaluation Areas/Aspects	Evaluation Sources/References	Evaluation Methods	Evaluation Time
leadership	program leaders	Annual Program Report	end of academic year
effectiveness of teaching	Students faculty members	Evaluation and Measurement Form	end of academic year
assessment, learning resources	Students faculty members	Evaluation and Measurement Form	end of academic year
Evaluation of faculty deans	faculty members	Evaluation and Measurement Form	end of academic year
electronic services granted to the university	faculty members	Evaluation and Measurement Form	end of academic year
faculty members	Students	Evaluation and Measurement Form	end of academic year
Academic department heads	faculty members	Evaluation and Measurement Form	end of academic year
Assessment of learning resources	Students faculty members	Evaluation and Measurement Form	end of academic year
Program mission and objectives	faculty members	Evaluation and Measurement Form	end of academic year

Evaluation Areas/Aspects (e.g., leadership, effectiveness of teaching & assessment, learning resources, services, partnerships, etc.)

Evaluation Sources (students, graduates, alumni, faculty, program leaders, administrative staff, employers, independent reviewers, and others.)

Evaluation Methods (e.g., Surveys, interviews, visits, etc.)

Evaluation Time (e.g., beginning of semesters, end of the academic year, etc.)

6. Program KPIs*

The period to achieve the target (____) year(s).

No.	KPIs Code	KPIs	Targeted Level	Measurement Methods	Measurement Time
1	KPI-P-01	Students' Evaluation of Quality of learning experience in the program	3.6	Average rating of the overall quality on a five point scale in an annual survey of final year students.	Final year Students
2	KPI-P-02	Students' evaluation of the quality of the courses	4.0	Average rating of students on a five-point scale on overall evaluation of courses.	Each end of semester
3	KPI-P-03	Completion rate	80%	Proportion of students entering undergraduate programs who complete those programs in minimum time.	End of final year Students
4	KPI-P-04	First-year students' retention rate	90%	Percentage of students entering programs who successfully complete first year.	End of First academic year new Students
5	KPI-P-05	Students' performance in the professional and/or national examinations	NOT	Percentage of students or graduates who were successful in the professional and/or national examinations, or their score average and median	



No.	KPIs Code	KPIs	Targeted Level	Measurement Methods	Measurement Time
.....	KPI-P-06	Graduates' employability and enrolment in postgraduate programs	70%	Percentage of graduates from the program who, within a year of graduation, were: a. employed within 12 months, b. enrolled in postgraduate programs during the first year of their graduation to the total number of graduates in the same year.	Each end of semester

*including KPIs required by NCAAA

H. Specification Approval Data:

Council / Committee	Umm Al-Qura University Council
Reference No.	851141114462/190372
Date	22/11/1446

