

Bachelor of Science in Architecture Engineering - 2020-2021**SEMESTER ONE**

1ST YEAR	Code	Course Title	NQF LVL	Prerequisite	Cr.Hr	Contact Hours		
						L	St	Lab
	AED111	Basic Design Studio I	5		3	1	4	0
	AED121	Engineering Mathematics	5	MATH090	3	2	2	0
	AED131	Engineering Drawings & Design Communication	5		3	2	2	0
	GS102	Creative Thinking	5		2	1	0	2
	IT102	Introduction to Computer Applications	5		2	2	0	0
	ENGL103	English for Academic Purposes	5	ENGL010	3	3	0	0
	LAW106	Human Rights	5		2	2	0	0
	Total				18	13	8	2

SEMESTER TWO

Code	Course Title	NQF LVL	Prerequisite	Cr.Hr	Contact Hours		
					L	St	Lab
AED112	Basic Design Studio II	6	AED111	3	1	4	0
AED122	Building Physics & Material Properties	6		3	3	0	0
ARE141	Theory of Architecture	5		3	3	0	0
GS111	Arabic Language Skills	5		3	3	0	0
ENGL104	English for Academic Purposes	5	ENGL103	3	3	0	0
GS133	History of Bahrain	5		3	3	0	0
Total				18	16	4	0

SEMESTER THREE

2ND YEAR	Code	Course Title	NQF LVL	Prerequisite	Cr.Hr	Contact Hours		
						L	St	Lab
	ARE211	Architecture Design I	6	AED112	5	1	8	0
	ARE221	Building Construction I	6	AED112	2	2	0	0
	AED231	Drafting & Design with Digital Media	6	AED131	3	2	0	2
	ARE241	History of Architecture 1	6	ARE141	2	2	0	0
	AED251	Design Research Methods	6	AED111+ENGL103	2	2	0	0
	ENGL202	English Writing for Communications	6	ENGL104	3	3	0	0
	Total				17	12	8	2

SEMESTER FOUR

Code	Course Title	NQF LVL	Prerequisite	Cr.Hr	Contact Hours		
					L	St	Lab
ARE212	Architectural Design II	6	ARE211	5	1	8	0
ARE222	Building Construction II	6	ARE221	2	1	0	2
ARE223	Land Surveying	6	AED121 + IT102	3	2	0	2
AED232	Rendering Techniques and Animation	6	AED231	3	1	0	4
ARE242	History of Regional Architecture & Heritage	6	GS133+ARE241	2	2	0	0
ARE243	History of Architecture II	6	ARE241	2	2	0	0
Total				17	9	8	8

SEMESTER FIVE

3RD YEAR	Code	Course Title	NQF LVL	Prerequisite	Cr.Hr	Contact Hours		
						L	St	Lab
	ARE311	Architectural Design III	7	ARE212	5	1	8	0
	ARE321	Passive & Active Climate Design Principles	7	AED122	3	3	0	0
	ARE322	Construction Drawing I	7	AED231+ARE222	4	2	0	4
	AED331	BIM for Design & Construction Drawing	7	AED231	3	2	0	2
	ARE371	Building Regulations & Codes	7	ARE212	3	3	0	0
	Total				18	11	8	6

SEMESTER SIX

Code	Course Title	NQF LVL	Prerequisite	Cr.Hr	Contact Hours		
					L	St	Lab
ARE312	Architectural Design IV	8	ARE311	5	1	8	0
ARE323	Building Services	7	ARE222	3	3	0	0
ARE324	Structural Analysis and Application	7	AED121+ARE222	3	2	0	2
ARE341	Modern & Contemporary Architecture	7	ARE243	3	3	0	0
ARE361	Landscape Architecture	7	ARE223	3	3	0	0
Total				17	12	8	2

SEMESTER SEVEN								
4TH YEAR	Code	Course Title	NQF LVL	Prerequisite	Cr.Hr	Contact Hours		
						L	St	Lab
	ARE411	Architectural Design V	8	ARE312	5	1	8	0
	ARE421	Sustainable Indoor Environment	8	ARE321	3	3	0	0
	ARE422	Building Material	7	AED122+ARE322	3	2	0	2
	ARE441	Housing Theories and Economics	7	ARE371	2	2	0	0
	ARE461	Planning & Sustainable Cities	8	ARE361	3	2	2	0
	ARE48X	Elective A	7		3	Varies		
	Total				19	10	10	2

SEMESTER EIGHT							
Code	Course Title	NQF LVL	Prerequisite	Cr.Hr	Contact Hours		
					L	St	Lab
ARE412	Architecture Design VI	8	ARE411	5	1	8	0
ARE423	Construction Drawings II	8	ARE422	4	2	0	4
ARE424	Structural Design	8	ARE324+ARE422	3	2	0	2
ARE462	Theory of Urban Design	8	ARE461	2	2	0	0
ARE48X	Elective A	7		3	Varies		
Total				17	7	8	6
ARE470	Architecture Internship Training	8	ARE371 + Passing 125 Cr.Hr	4	Varies		

SEMESTER NINE								
5TH YEAR	Code	Course Title	NQF LVL	Prerequisite	Cr.Hr	Contact Hours		
						L	St	Lab
	ARE511	Architecture Design VII	8	ARE412+ARE461	5	1	8	0
	ARE551	Graduation Project Research	8	AED251+ARE412	3	1	4	0
	ARE571	Professional Practice and Ethics	8	ARE423	2	2	0	0
	ARE572	Specifications and Quantity Surveying	8	ARE423+ARE223	3	3	0	0
	ARE58X	Elective B	8		3	Varies		
	Total				16	7	12	0

SEMESTER TEN							
Code	Course Title	NQF LVL	Prerequisite	Cr.Hr	Contact Hours		
					L	St	Lab
ARE512	Graduation Project Design	8	ARE511+ARE551	6	0	12	0
ARE573	Construction Project Management	8	ARE423	3	3	0	0
ARE58X	Elective B	8		3	Varies		
ARE58X	Elective B	8		3	Varies		
ARE58X	Elective B	8		3	Varies		
Total				18	3	12	0

List of Elective Courses

Elective A: FOURTH YEAR [Mandatory to select TWO courses]								
ELECTIVE COURSES	Code	Course Title	NQF LVL	Prerequisite	Cr.Hr	Contact Hours		
						L	St	Lab
	ARE481	Advance Rendering Techniques & Animation	7	AED232	3	2	0	2
	ARE482	Communication for Architects	7	ENGL202	3	2	2	0
	ARE483	Architectural Photography & Cinematography	7	AED231	3	2	2	0
	ARE484	Interior Design & Modern Art	7	ARE212	3	2	2	0
	ARE485	Building Economic & Real Estate	7	ARE441	3	3	0	0
	ARE486	Heritage & Building Conservation	7	ARE242	3	2	2	0

Elective B: FIFTH YEAR [Mandatory to select FOUR courses]							
Code	Course Title	NQF LVL	Prerequisite	Cr.Hr	Contact Hours		
					L	St	Lab
ARE581	Advanced Computer Techniques	8	AED331	3	2	0	2
ARE582	Architecture & Virtual Reality	8	AED331	3	2	2	0
ARE583	Building Performance Analysis	8	AED331	3	2	0	2
ARE584	Environmental Planning & Impact Assessment	8	ARE461	3	2	2	0
ARE585	Shop Drawing	8	ARE423	3	2	0	2
ARE586	Introduction to Remote Sensing	8	ARE223 + ARE461	3	2	0	2