

COLLEGE OF ARCHITECTURE ENGINEERING & DESIGN

DEPARTMENT OF ARCHITECTURE ENGINEERING

Bachelor in Architectural 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
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	
<b>Total</b>					<b>18</b>	<b>13</b>	<b>8</b>	<b>2</b>

SEMESTER TWO								
1ST YEAR	Code	Course Title	NQF LVL	Prerequisite	Cr.Hr	Contact Hours		
						L	St	Lab
						AED112	Basic Design Studio II	6
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	
<b>Total</b>					<b>18</b>	<b>14</b>	<b>4</b>	<b>0</b>

SEMESTER THREE								
2ND YEAR	Code	Course Title	NQF LVL	Prerequisite	Cr.Hr	Contact Hours		
						L	St	Lab
						ARE211	Architecture Design I	6
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 I	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	
<b>Total</b>					<b>17</b>	<b>12</b>	<b>8</b>	<b>2</b>

SEMESTER FOUR								
2ND YEAR	Code	Course Title	NQF LVL	Prerequisite	Cr.Hr	Contact Hours		
						L	St	Lab
						ARE212	Architecture Design II	6
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	
<b>Total</b>					<b>17</b>	<b>9</b>	<b>8</b>	<b>8</b>

SEMESTER FIVE								
3RD YEAR	Code	Course Title	NQF LVL	Prerequisite	Cr.Hr	Contact Hours		
						L	St	Lab
						ARE311	Architecture Design III	7
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	
<b>Total</b>					<b>18</b>	<b>11</b>	<b>8</b>	<b>6</b>

SEMESTER SIX								
3RD YEAR	Code	Course Title	NQF LVL	Prerequisite	Cr.Hr	Contact Hours		
						L	St	Lab
						ARE312	Architecture Design IV	8
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	
<b>Total</b>					<b>17</b>	<b>12</b>	<b>8</b>	<b>2</b>

SEMESTER SEVEN								
4TH YEAR	Code	Course Title	NQF LVL	Prerequisite	Cr.Hr	Contact Hours		
						L	St	Lab
						ARE411	Architecture Design V	8
ARE421	Sustainable Indoor Environment	8	ARE321	3	3	0	0	
ARE422	Building Materials	7	AED122+ARE322	3	2	0	2	
ARE441	Housing Theories and Economics	7	ARE371	2	2	0	0	
ARE442	Interior Design & Modern Art	7	ARE212	3	2	2	0	
ARE461	Urban Design	8	ARE361	2	1	2	0	
<b>Total</b>					<b>18</b>	<b>11</b>	<b>12</b>	<b>2</b>

SEMESTER EIGHT								
4TH YEAR	Code	Course Title	NQF LVL	Prerequisite	Cr.Hr	Contact Hours		
						L	St	Lab
						ARE412	Architecture Design VI	8
ARE423	Construction Drawings II	8	ARE422	4	2	0	4	
ARE424	Structural Design	8	ARE324+ARE422	3	2	0	2	
ARE425	Building Performance Analysis	8	AED331	3	2	0	2	
ARE462	Planning & Sustainable Cities	8	ARE461	3	2	2	0	
<b>Total</b>					<b>18</b>	<b>9</b>	<b>10</b>	<b>8</b>
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
ARE551	Graduation Project Research	8	AED251+ARE412	3	1	4	0	
ARE561	Environmental Planning & Impact Assessment	8	ARE462	3	3	0	0	
ARE571	Specifications and Quantity Surveying	8	ARE423+ARE223	3	3	0	0	
ARE58X	Elective 1	7		3	Varies			
<b>Total</b>					<b>17</b>	<b>8</b>	<b>12</b>	<b>0</b>

SEMESTER TEN								
5TH YEAR	Code	Course Title	NQF LVL	Prerequisite	Cr.Hr	Contact Hours		
						L	St	Lab
						ARE512	Graduation Project Design	8
ARE521	Shop Drawing	8	ARE423	3	2	0	2	
ARE572	Professional Practice and Ethics	8	ARE423	2	2	0	0	
ARE573	Construction Project Management	8	ARE423	3	3	0	0	
ARE58X	Elective 2	8		3	Varies			
<b>Total</b>					<b>17</b>	<b>7</b>	<b>12</b>	<b>2</b>

List of Elective Courses

Elective 1: ONE Course								
ELECTIVE COURSES	Code	Course Title	NQF LVL	Prerequisite	Cr.Hr	Contact Hours		
						L	St	Lab
						ARE581	Advance Rendering Techniques & Animation	7
ARE582	Communication for Architects	7	ENGL202	3	2	2	0	
ARE583	Architectural Photography & Cinematography	7	AED231	3	2	2	0	
ARE584	Building Economic & Real Estate	7	ARE441	3	3	0	0	
ARE585	Heritage & Building Conservation	7	ARE242	3	2	2	0	

Elective 2: ONE Course								
ELECTIVE COURSES	Code	Course Title	NQF LVL	Prerequisite	Cr.Hr	Contact Hours		
						L	St	Lab
						ARE586	Advanced Computer Techniques	8
ARE587	Architecture & Virtual Reality	8	AED331	3	2	2	0	
ARE588	Introduction to Remote Sensing	8	ARE223+ARE462	3	2	0	2	
ARE589	GIS Application in Planning	8	ARE223+ARE462	3	2	0	2	

Courses	No	Cr.Hrs
University Courses	8	21
College Courses	9	26
Major Courses	40	132
<b>Total</b>	<b>57</b>	<b>179</b>

Total Credits Hours	179
Total Contact Hours	230
No. of Compulsory Courses	55
No. of Elective Courses	2

NQF LVL	Cr.Hr	%
LEVEL 5	30	17
LEVEL 6	40	22
LEVEL 7	41	23
LEVEL 8	68	38
<b>179</b>		