

**The University of Technology/ the Department of
Architectural Engineering,
Bachelor of Science in Architectural Engineering
(2017-2022)**

الجامعة التكنولوجية
University of Technology

هندسة العمارة
Architectural Engineering

First year

Code	Course	Weekly hours				Credit unites	
		First semester		Second semester			
		Theoretical	Practical	Theoretical	Practical		
Annual Modules							
BAE 101	Architectural Design Principles(1)	1	8	1	8	10	Department Requirements
BAE 102	Manual and Freehand Drawing 2D/3D	-	3	-	3	3	
First Semester							
BAE 103	Art and Architecture	2	-	-	-	2	University Requirement
BAE 104	Computers (1)	-	2	-	-	1	
BAE 105	Descriptive geometry	2	-	-	-	2	
BAE 106	Workshops (1)	-	4	-	-	2	
BAE 107	Physics (1)	2	-	-	-	2	
BAE 108	Mathematics (1)	2	-	-	-	2	
BAE 109	English Language (1)	2	-	-	-	2	
BAE 110	Human Rights (1)	1	-	-	-	1	
Second Semester							
BAE 111	Building construction (1)	-	-	2	-	2	Department Requirements
BAE 112	Computers (1)	-	-	-	2	1	
BAE 113	Survey	-	-	1	1	2	
BAE 114	Workshops (2)	-	-	-	4	2	
BAE 115	Building Physics (2)	-	-	2	-	2	University Requirement
BAE 116	Mathematics (2)	-	-	2	-	2	
BAE 117	English Language (2)	-	-	2	-	2	
BAE 118	Freedom and Democracy(2)	-	-	1	-	1	
Total		12	17	11	18	41	
		29		29			

Architectural Engineering

Second year

Code	Course	Weekly hours				Credit unites	
		First semester		Second semester			
		Theoretical	Practical	Theoretical	Practical		
Annual Modules							
BAE 201	Architectural Design (2)	1	9	1	9	11	Department Requirements
BAE 202	Architectural Drawing and Visualization techniques	1	3	1	3	5	
First Semester							
BAE 203	Buildings Construction (2)	1	3	-	-	2	Department Requirements
BAE 204	Structure (1)/Engineering Mechanics	2	-	-	-	2	
BAE 205	History of Architecture (1)/ (Mesopotamia and ancient Culture)	2	-	-	-	2	
BAE 206	Computers (3)	-	2	-	-	1	
BAE 207	Mathematics (3)	2	-	-	-	2	University Requirement
Second Semester							
BAE 208	Buildings Construction (3)	-	-	1	3	2	Department Requirements
BAE 209	Structure (2)/analysis and building materials	-	-	2	-	2	
BAE 210	History of Architecture (2) (middle age ,renaissance, nineteenth century Architecture)	-	-	2	-	2	
BAE 211	Computers(4)	-	-	-	2	1	
BAE 212	Architecture and logic	-	-	2	-	2	
BAE 213	Mathematics(4)	-	-	2	-	2	University Requirement
Total		9	17	11	17	36	
		26		28			

Third year

Code	Course	Weekly hours				Credit unites
		First semester		Second semester		
		Theoretical	Practical	Theoretical	Practical	
Annual Modules						
BAE 301	Architectural Design (3)	1	9	1	9	11
First Semester						
BAE 302	Buildings Construction (4) (Structural Details)	1	3	-	-	2
BAE 303	Structure (3)/Structure Analysis	2	-	-	-	2
BAE 304	History of Architecture (4) (Modern and postmodern Architecture)	2	-	-	-	2
BAE 305	Architectural design Methodology	2	-	-	-	2
BAE 306	Sustainable Architecture	2	-	-	-	2
BAE 307	Computers(5)	-	2	-	-	1
BAE 308	Principles of Planning	-	2	-	-	2
Second Semester						
BAE 309	Buildings Construction (5) /(a Contemporary Building Techniques)	-	-	1	3	2
BAE 310	Concrete Structures Design (4)	-	-	2	-	2
BAE 311	Architecture Design Theory	-	-	2	-	2
BAE 312	Architecture and Climatic Environment	-	-	2	-	2
BAE 313	Computers (6)/Advanced	-	-	-	2	1
BAE 314	Interior Design	-	-	1	4	3
Total		10	16	9	18	36
		26		27		

Department Requirements

Fourth year

Code	Course	Weekly hours				Credit unites
		First semester		Second semester		
		Theoretical	Practical	Theoretical	Practical	
Annual Modules						
BAE 401	Urban and Architecture Design (4)	1	10	1	10	12
First semester						
BAE 402	Urban Design Theory	2	-	-	-	2
BAE 403	Arabic Islamic Architecture	2	-	-	-	2
BAE 404	Building Services	2	-	-	-	2
BAE 405	Housing	2	-	-	-	2
BAE 406	Remote Sensing Technics	1	2	-	-	2
Second Semester						
BAE 407	Architectural Spaces Programming	-	-	2	-	2
BAE 408	Iraqi Vernacular Architecture	-	-	2	-	2
BAE 409	Acoustic Services	-	-	2	-	2
BAE 410	Landscape Design	-	-	1	4	3
BAE 411	Urban Climatic Environment	-	-	2	-	2
Total		10	12	10	14	33
		22		24		

Department Requirements

Fifth year

Code	Course	Weekly hours				Credit unites
		First semester		semester Second		
		Theoretical	Practical	Theoretical	Practical	
Annual Modules						
BAE 501	Design Thesis	1	12	1	10	13
BAE 502	Architectural Details	2	2	-	6	6
First Semester						
BAE 503	Project magement	2	-	-	-	2
BAE 504	Philosophy and Architecture	2	-	-	-	2
BAE 505	Pluming Services	2	-	-	-	2
Second Semester						
BAE 506	Quantities and Specifications	-	-	2	-	2
BAE 507	Building Regulation	-	-	2	-	2
BAE 508	Air-conditioning Services	-	-	2	-	2
Total		9	14	7	16	31
		23		23		

Summary of the study plan in the Architectural department

Year	First semester		Second semester		Total hours		Credit unites
	Theoretical	Practical	Theoretical	Practical	Theoretical	Practical	
1 st	180	255	165	270	345	525	41
2 nd	135	255	165	255	300	510	36
3 rd	150	240	135	270	285	510	36
4 th	150	180	150	210	300	390	33
5 th	135	210	105	240	240	450	31
Total	750	1140	720	1245	1470	2385	
Total semester	1890		1965		3885		177
Final total	3855						

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