

Ministry of Higher Education and Scientific Research
University of Technology
Architecture Engineering Department /Baghdad-Iraq

Bachelor Degree

Academic Calendar 2012-2017

Historical Background

The Department of architectural Engineering founded in 1977 within the University of Technology in Baghdad. Through its teaching philosophy and curricula, the Department of Architecture strives to develop a basis for a truly national architectural school that emphasizes the importance of inspiration from Iraq's architectural heritage with a sophisticated and contemporary approach in both architectural and urban scale. During the period 1977-2012, aroundarchitects graduated, many of them are now well-established in various state establishments and some have also become well-known on the Arab-world and international levels.

Our department excels in providing basic and advanced Architectural engineering education. It has been designed to provide a firm foundation across a wide breadth of activities that fall under the umbrella of Architectural Engineering. We offer courses in areas related to Architecture, Urban design, landscape, interior architecture, Structure, Environment, and Construction Engineering. The theoretical program and practical skills that students learn in their degree program give them a unique advantage after they complete their program.

The Master of Science (MSc) degree in Architectural Engineering established in 1986, it's intended to meet the needs of students who wish to prepare for careers and expertise in areas such as design and analysis, Buildings Technology, Critical Theory, Building and Environment, Urban design, Project Management, and research. The program also provides excellent preparation for doctoral studies, which established in our department in 1992, a PhD philosophy degree in architecture and urban studies for minimum three years length and combines a practical and theoretical approach for learning and research.

The following courses have been identified as requirements for the five year B.Sc. program. Students are required to pass all these courses; these courses are listed in the following.

The success of our graduate architect engineers demonstrates to the high quality of our educational program.

Program Educational goals

The Department of architecture Engineering has established the following educational goals:

- **Technical Growth:** Graduates will be successful in accommodate changes intellectual, technical and deals with more efficient, with understanding of the social, cultural and moral characteristics for our environment, that interacts with the specificity of national, cultural and humanitarian belonging.
- **Professional Skills:** Graduates will have the ability to apply theoretical knowledge in the fields of work and seeking development through access and follow-up to the developments of life. They will continue to demonstrate the professional skills necessary to be competent employees, assume leadership roles, and have career success and satisfaction.
- **Professional Attitude:** Graduates will become productive citizens with high ethical and professional standards, to respect the tenets of professional practice as determined by the regulations and the laws .

The study plans 2012-2017

❖ First year

Code	Course	Weekly hours				Credit unites	
		First semester		Second semester			
		Theoretical	Practical	Theoretical	Practical		
BAE 101	Architectural Design 1	1	8	1	8	10	Architecture Department Requirement
BAE 102	Free Hand Drawing 2D	-	3	-	-	3	
	Free Hand Perspective Drawing 3D	-	-	-	3		
BAE 103	Buildings construction 1	1	1	1	1	3	
BAE 104	History of Architecture 1 (Mesopotamia and the Nile valley)	2	-	-	-	4	
	History of Architecture (1) (Greek, Roman and the Middle Ages)	-	-	2	-		
BAE 105	Computers 1	-	2	-	2	2	
BAE 106	Art and Architecture (1) (understand the basics of Architecture)	2	-	-	-	4	
	Art and Architecture (1) (understand the Aesthetics of Architecture)	-	-	2	-		
BAE 107	Workshop and Models Studio	-	4	-	4	4	
BAE 108	Mathematics	2	-	2	-	4	
BAE 109	English Language	1	-	1	-	2	
BAE 110	Human Rights	2	-	2	-	4	
Total		18	11	18	11	40	
		29		29			

The study plans 2012-2017
❖ **Second year**

Code	Course	Weekly hours				Credit unites	
		First semester		Second semester			
		Theoretical	Practical	Theoretical	Practical		
BAE 201	Architectural Design (2)	1	9	1	9	11	Architecture Department Requirement
BAE 202	Architectural Visualization techniques and Freehand drawing	-	4	-	4	4	
BAE 203	Descriptive Geometry	2	-	-	-	2	
BAE 204	Surveying	-	-	1	1	2	
BAE 205	Buildings Construction (2)	1	2	1	2	4	
BAE 206	Structure (1)	2	-	2	-	4	
BAE 207	Computers (2)	2	-	-	-	2	
BAE 208	History of Architecture (2) (Renaissance Architecture)	2	-	-	-	4	
	History of Architecture (2) (nineteenth century Architecture)	-	-	2	-		
BAE 209	Architecture and logic	-	-	2	-	2	
BAE 210	Freedom and Democracy	2	-	2	-	4	University Requirement
Total		18	11	17	10	40	
		29		27			

The study plans 2012-2017

❖ Third year

Code	Course	Weekly hours				Credit unites	
		First semester		Second semester			
		Theoretical	Practical	Theoretical	Practical		
BAE 301	Architectural Design (3)	1	9	1	9	11	Architecture Department Requirement
BAE 302	Buildings Construction (3) (Structural Details)	1	3	-	-	5	
	Buildings Construction (3) (a Contemporary Building Techniques)	-	-	1	3		
BAE 303	Structure (2)	2	-	-	-	4	
	Structure (2) (Practical / Contemporary Building Techniques)	-	-	2	-		
BAE 304	History of Architecture (3) (Architecture Modernism and Postmodernism)	2	-	-	-	4	
	History of Architecture (3) (Contemporary Architecture)	-	-	2	-		
BAE 305	Architectural design Methodology	2	-	-	-	2	
BAE 306	Architecture and Environment	2	-	2	-	4	
BAE 307	Computers	-	2	-	2	2	
BAE 308	City History	2	-	-	-	2	
BAE 309	Principles of Planning and Urban Design	-	-	2	-	2	
BAE 310	Pluming Services	2	-	-	-	2	
BAE 311	Mechanical Services	-	-	2	-	2	
Total		14	12	14	14	40	
		26		28			

The study plans 2012-2017

❖ Fourth year

Code	Course	Weekly hours				Credit unites	
		First semester		Second semester			
		Theoretical	Practical	Theoretical	Practical	Architecture Department Requirement	
BAE 401	Urban Design and Architecture (4)	1	10	1	10		12
BAE 402	Interior spaces Design	1	4	-	-		3
BAE 403	External spaces Design (Landscape)	-	-	1	4		3
BAE 404	Urban Design Theory	2	-	-	-		2
BAE 405	Architectural Design Theory	-	-	2	-		2
BAE 406	Arabic Islamic Architecture	2	-	-	-		2
BAE 407	Domestic Iraqi Architecture	-	-	-	-		2
BAE 408	Building Services	-	-	-	-		2
BAE 409	Acoustic Services	-	-	2	-		2
BAE 410	Architectural Psychology	2	-	-	-		2
BAE 411	Housing	2	-	2	-		4
BAE 412	Urban Climatic Environment	2	-	-	-	2	
Total		12	14	12	14	38	
		26		26			

The study plans 2012-2017

❖ Fifth year

Code	Course	Weekly hours				Credit unites	
		First semester		Second semester			
		Theoretical	Practical	Theoretical	Practical		
BAE 501	Design Thesis	1	16	1	16	15	Architecture Department Requirement
BAE 502	Architectural Details	2	2	-	6	6	
BAE 503	Project Management	-	-	2	-	2	
BAE 504	Building Regulation	2	-	-	-	2	
BAE 505	Quantities and Specifications	-	-	2	-	2	
BAE 506	Design Research Thesis	2	-	-	-	2	
BAE 507	Philosophy and Architecture	2	-	-	-	2	
BAE 508	Sustainable Architecture	2	-	-	-	2	
Total		11	18	5	16	33	
		21		27			

❖ 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	165	270	160	270	330	540	40
2 nd	150	255	165	270	315	525	39
3 rd	210	210	180	210	390	420	40
4 th	180	210	180	210	360	420	38
5 th	165	270	75	240	240	510	33
Total	870	1215	765	1200	1635	2415	
Total semester	2085		1965		4050		190
Final total	4050						

Courses and Professors in charge

First Year

Code	Course	First semester	Second semester
BAE 101	Architectural Design 1	L.Dr. Mustafa Kamel	L.Dr. Mustafa Kamel
BAE 102	Free Hand Drawing 2D	L.Nakam Ahmed	-
	Free Hand Perspective Drawing 3D	-	L.Nakam Ahmed
BAE 103	Buildings construction 1	L.Dr.AbdulaSadun, A.L.Yehia	L.Dr.AbdulaSadun, A.L.Yehia
BAE 104	History of Architecture 1 (Mesopotamia and the Nile valley)	A.P.Dr.AsmaaNiazi, A.L.Banjilil	-
	History of Architecture (1) (Greek, Roman and the Middle Ages)	-	L.ShaimaAbass
BAE 105	Computers 1	A.L.Yonis, A.L.Bilal	A.L.Yonis, A.L.Bilal
BAE 106	Art and Architecture (1) (understand the basics of Architecture)	A.P.Dr.Anwar	-
	Art and Architecture (1) (understand the Aesthetics of Architecture)	-	A.P.Dr.Anwar, L.Aseel Ibrahim
BAE 107	Workshop and Models Studio	-	L.Dr.MustafaKamil , A.L.MuhamadEsam
BAE 108	Mathematics	-	A.P.Dr.Fuad Abdul hameed
BAE 109	English Language	L.QasanJassem	L.QasanJassem
BAE 110	Human Rights	L.Dr.Ali Musa, L.AzharJassem	L.Dr.Ali Musa, L.AzharJassem

* Assistant Lecturer –AL

*Lecturer-L

*Assistant Professor-AP

*Professor-P

Courses and Professors in charge

Second Year

Code	Course	First semester	Second semester
BAE 201	Architectural Design (2)	A.P.Dr. Suha	A.P.Dr. Suha
BAE 202	Architectural Visualization techniques and Freehand drawing	L. Enass Ibrahim	L.Enass Ibrahim
BAE 203	Descriptive Geometry	L.Dr. NibrassMuhamed	-
BAE 204	Surveying	-	L. SaffaJassem
BAE 205	Buildings Construction (2)	A.P.Dr. Ali Muhseen	A.P.Dr. Ali Muhseen
BAE 206	Structure (1)	A.P.Dr. Ali Mejbel, L.Dr. Suaad	A.P.Dr. Ali Mejbel, L.Dr. Suaad
BAE 207	Computers (2)	L. JassemMuhammed,A.L. Qaiss	-
BAE 208	History of Architecture (2) (Renaissance Architecture)	L. Parizad	-
	History of Architecture (2) (nineteenth century Architecture)	-	L. Parizad
BAE 209	Architecture and logic	-	A.P.Dr. AsmaaMuhammed
BAE 210	Freedom and Democracy	L.Dr.Ali Musa	L.AzharJassem

* Assistant Lecturer –AL

*Lecturer-L

* Assistant Professor-AP

*Professor-P

Courses and Professors in charge

Third Year

Code	Course	First semester	Second semester
BAE 301	Architectural Design (3)	L.DrBassem	L.DrBassem
BAE 302	Buildings Construction (3) (Structural Details)	A.P.Dr. Ali Muhseen	-
	Buildings Construction (3) (a Contemporary Building Techniques)	-	L.Dr. SaffaAldeen
BAE 303	Structure (2)	A.P.Dr. Ali Mejbhel, L.Dr. Suaad	-
	Structure (2) (Practical / Contemporary Building Techniques)	-	A.P.Dr. Ali Mejbhel, L.Dr. Suaad
BAE 304	History of Architecture (3) (Architecture Modernism and Postmodernism)	L. Nada Abdul Mueen	-
	History of Architecture (3) (Contemporary Architecture)	-	L. Venus Sulaeman
BAE 305	Architectural design Methodology	A.P.Dr. AsmaaMuhammed	-
BAE 306	Architecture and Environment	-	A.L.Yonis
BAE 307	Computers	L. LinaKanim	L. LinaKanim
BAE 308	City History	L.Dr. Kanssa	-
BAE 309	Principles of Planning and Urban Design	-	L.Dr. Kanssa
BAE 310	Pluming Services	L.Dr. Raya Saffa	-
BAE 311	Mechanical Services	-	L.Dr. HasaneenMuhammed

* Assistant Lecturer –AL

*Lecturer-L

*Assistant Professor-AP

*Professor-P

Courses and Professors in charge

Fourth Year

Code	Course	First semester	Second semester
BAE 401	Urban Design and Architecture (4)	P.Dr. Sana	P.Dr. Sana
BAE 402	Interior spaces Design	L. Dr. Shamael	-
BAE 403	External spaces Design (Landscape)	-	L.Dr. Rawaa
BAE 404	Urban Design Theory	A.L.Dr. Wehda	-
BAE 405	Architectural Design Theory	-	A.P.Dr. Ibrahim
BAE 406	Arabic Islamic Architecture	L.Dr. Mahdee, L. Zainab Husain	-
BAE 407	Domestic Iraqi Architecture	-	L.Dr. Mahdee, A.L. SuraKassim
BAE 408	Building Services	-	
BAE 409	AcousticServices	-	P. Kalil
BAE 410	Architectural Psychology	L.Dr. Mustafa Kamil	-
BAE 411	Housing	P.Dr. Sana	P.Dr. Sana
BAE 412	Urban Climatic Environment	P.Dr. MiqdadHydar	-

* Assistant Lecturer –AL

*Lecturer-L

*Assistant Professor-AP

*Professor-P

Courses and Professors in charge

Fifth Year

Code	Course	First semester	Second semester
BAE 501	Design Thesis	A.P.Dr. Ibrahim	A.P.Dr. Ibrahim
BAE 502	Architectural Details	A.P.Dr. Ali Muhseen	A.P.Dr. Ali Muhseen
BAE 503	Project Management	-	L.Dr. SaffaAldeen
BAE 504	Building Regulation	L.Dr. SaffaAldeen	-
BAE 505	Quantities and Specifications	-	L.Dr. Suaad
BAE 506	Design Research Thesis	A.P.Dr. Suha	-
BAE 507	Philosophy and Architecture	-	L.Dr. Emad
BAE 508	Sustainable Architecture	P.Dr. MiqdadHydar, A.P.Dr. Anwar	-

* Assistant Lecturer –AL

*Lecturer-L

*Assistant Professor-AP

*Professor-P