The University of Technology/ the Department of Architectural Engineering,

Bachelor of Science in Architectural Engineering

(2019-2024)

University of Technology/Department of Architectural Engineering- Bachelor of science in Architectural Engineering.

Program Objectives:

1- Prepare the graduates in the field of architectural design to obtain the necessary professional values and skills in addition to theoretical and technical knowledge in order to perform professionally in different cultural, social, and environmental contexts on local, regional, and international scales.
2- Enhance the graduate's professional capacity to meet the social requirements, represent the ethics of the profession, and to undertake the social responsibilities by adopting the necessary educational (teaching and learning) policies.
3- Develop the students' innovative and creative capacities to consider all the functional, aesthetical, and technical design requirements in order to create an architecture that belongs to its environmental, social, and economical contexts. In this process, the multidisciplinary analytical approach is highly engaged.
4- Adopt the collaborative working system and develop the students' team-working skills.

The Outcome of Learning Process

A- The integration of architecture with other fields of knowledge and expertise in the process of design decision making. Adopting this multidisciplinary approach allows the designer to incorporate a wide range of disciplines from different fields of knowledge - such as the engineering, basic science, social studies, and humanities. This approach practically directs the architect towards the best possible design decisions and problem solutions.
B- The ability to Built relations for things and Concepts.
C- The process of concept building is based on analytical studies that include all the related social, political, cultural, and environmental contexts.
D- The ability of communicating ideas and concepts by using the variety of acquired skills such as critical thinking, concept building, logical arguments, drawings, and modeling.
E- Demonstrate a clear understanding of the technical aspects of design, materials, and construction.
F- The understanding of the technical aspects is carefully applied and reflected on the architectural design.
G- The impact of the design decision on the grater context is carefully considered.
H- The capacity of systematic thinking and the ability of setting up a wide range of complicated variables leading to integrated design solutions.

I- Demonstrating a clear understanding of the commercial principles of the professional practice. This includes mastering the administrative principles in addition to the legal and ethical working values that carefully consider the clients' and the society's rights.

J- Demonstrating a deep understanding of the social and cultural values of Islamic and other religions and ethnicities in the society. The architect, from this perspective, becomes able to address the requirements of the clients from different backgrounds, and create a design that respects these values as well.

K- Understanding the Architectural Knowledge – particularly the theories of architecture- as an applied science.

L- The ability to meet the general requirements of the profession and business market through the following acquired skills: team-working, project management, data collecting and analyzing, documentation, communication, concept building, design decision making, presentation, report writing, employment of digital programs, critical thinking and positive work assessment.

Bachelor of Science in Architectural Engineering (184) credit hours:

In order to obtain a Bachelor of Science (B.Sc.) in Architectural Engineering, specializing in Architectural Design, students should complete 184 credit hours to cover the University of Technology requirements (UR), college requirements (CR), and program requirements (PR) as it shown in the following:

Required and Elective Credit Hours	University Requirements (UR)	College Requirements (CR)	Program Requirements (PR)	Total
required units	16	35	115	166
elective units	2	-	16	18
Total	18	35	131	184

All the courses can be classified under three fields:

a- Mathematics and Basic Sciences

b- Engineering, Architecture, and Architectural design basic Sciences

c- General Courses

The University of Technology Requirements (UR):

The university requirements include (18) credit hours. These hours are divided between (16) required credit hours and (2) elective credit hours as it shown in the following tables:

The Required UR Credit Hours

The University of Technology Requirements (UR): Compulsary				
Course Symbol	Course Title	Credit Hours	Field	The Outcome of Learning Process
	Human Rights	2	c	J
	English Language 1	2	c	D
	English Language 2	2	c	D
	English Language 3	2	c	D
	Engineering Ethics	2	b	I
	Computer Science	2	c	L
	Workshop 1	2	c	D
	Workshop 2	2	c	D

The Elective UR Credit Hours

Course Symbol	Course Title	Theory Credit Hours	Practical Credit Hours	Total Credit Hours	Field
	Technical Writing	2	-	2	C
	Sport	2	-	2	C
	Arabic Language	2	-	2	C
	Art	2	-	2	C
	Democracy	2	-	2	C

College Requirements – The Department of Architectural Engineering:

All students in the Department of Architectural Engineering must take (35) Compulsary credit hours as a CR requirement, as it shown in the following table:

College Requirements (CR): The Compulsary Credit Hours				
Course Symbol	**Course Title**	**Credit Hours**	**Field**	**The Outcome of Learning Process**
	Introduction to Architecture, Art, and Engineering	2	c	A, K
	Architectural Drawings (Graphics) 1	2	c	D
	Freehand Drawing	2	c	D
	Architectural Drawings (Graphics) 2	2	c	D
	Basic Design 1	3	c	B, D
	Building Construction 1	2	b	E
	History and Theory of Architecture 1	2	c	C
	History and Theory of Architecture 2	2	c	C
	Computer-Aided Design 1	2	b	D, L
	Design Methods and Theories	2	b	A, C, J, K, L
	Mathematics 1	2	a	A
	Mathematics 2	2	a	A
	Chemistry	2	a	A
	Physics 1	3	a	A
	Physics 2	3	a	A
	Engineering Surveying	2	b	A
The Total of Credit Hours		35		

Program Requirements (PR) – The Requirements of Architectural Engineering:

All students in the Department of Architectural Engineering must take (115) Compulsary credit hours as a PR requirement, as it shown in the following table:

Program Requirements (PR): The Compulsary Credit Hours

Course Symbol	Course Title	Credit Hours	Field	The Outcome of Learning Process
	Basic Design 2	3	c	B, D
	Principles of Computer-Aided Design	1	b	D, L
	Architectural Presentation	2	b	D, L
	Materials and Methods of Construction	2	b	A, E
	Buildings Construction 2	3	b	A, E, F
	Buildings Construction 3	3	b	A, E, F, H
	Buildings Construction 4	3	b	A, E, F, H
	Computer-Aided Design 2	2	b	D, L, A
	Architectural Design Studio 1	5	b	A, B, F
	Architectural Design Studio 2	5	b	A, B, C, F, H
	Principles of Structures Analysis	2	b	A, E
	Plumbing Services	2	b	A, E
	Architectural Design 3	6	b	A, B, C, F, H
	Working Drawings	2	b	D, F, I, K, L
	Islamic and Arabic Architecture	2	b	C, J, K
	Islamic and Local Architecture	2	b	C, J, K
	Sustainable Architecture	2	b	A, E, G
	Reinforced Concrete Design	2	b	A, E

	Iron structures Design	**2**	**b**	**A, E**
	Acoustics and Buildings' Illumination and Control	**2**	**b**	**A, E, G**
	Environmental Systems and Control	**2**	**b**	**A, E, G**
	Air-conditioning Systems (Heating/Cooling) for Architecture	**2**	**b**	**A, E, G**
	Architectural Design Studio 4	**6**	**b**	**A, C, F, H, J**
	Architectural Design Studio 5	**6**	**b**	**A, C, F, H, J**
	Architectural Design Studio 6	**6**	**b**	**A, C, F, H, J**
	Interior Architecture	**3**	**b**	**A, C, H**
	Landscape Architecture	**3**	**b**	**A, C, H**
	Urban Planning	**2**	**b**	**A, C**
	Architecture report writing	**2**	**b**	**D, K, L**
	Theories of Urban Design and Housing	**2**	**b**	**A, C**
	Architecture programmming	**2**	**b**	**A, C, H, K, L**
	Architectural Psychology	**2**	**b**	**A, C**
	Graduation Project 1	**7**	**b**	**A, F, H, J, K**
	Graduation Project 2	**7**	**b**	**A, F, H, J, K**
	Quantitative Survey and Specifications	**2**	**b**	**A, D, I, L**
	Philosophy and Architecture Criticism	**2**	**b**	**A, B, C, J**
	Building Regulation	**2**	**b**	**A, I**
	Architectural Details	**2**	**b**	**A, D, E, F**
	Projects Management	**2**	**b**	**A, I**
The Total of Credit Hours		**115**		

Requirement of Architecture specialization
Elective Courses:

The courses which labelled below, the student should choose (16 Credit Units):

Code	Course	Theoretical Per *h.*	Practical Per *h.*	Credit Unit	Range (Scope)	Pervious Course
ARCE3	Advanced Construction Systems	2	-	2	**b**	Building Construction-2
ARCE3	Mechanical System	2	-	2	**b**	Introduction to Thermal Sciences
ARCA4	Contemporary Architecture	2	-	2	**b**	Islamic and Vernacular Architecture
ARCA3	Architecture Logic	2	-	2	**b**	Architectural Design-2
ARCA4	Computer-aided Advanced Design	2	-	2	**b**	Computer-aided Design-2
ARCE5	Economical Construction	2	-	2	**b**	Working Drawings
ARCE5	Modelling and Simulation	2	-	2	**b**	Computer-aided Design-2
ARCA4	Architectural Conservation Techniques	2	-	2	**b**	Urban Planning
ARCA3	Architectural Thinking Skills	2	-	2	**b**	Architectural Design-2
ARCA5	Architectural Professional Practice	2	-	2	**b**	Methods and Theories of Design
ARCE5	Construction Contracts	2	-	2	**b**	Building Regulations
ARCA5	Special Topics (Subjects) in Architectural Design	2	-	2	**b**	Methods and Theories of Design
ARCA4	Advanced Urban Design	2	-	2	**b**	Urban Planning
ARCA4	Advanced Housing	2	-	2	**b**	Urban Planning
ARCA3	Computer-aided Advanced Design-3	2	-	2	**b**	Computer-aided Design-2
ARCA5	Architecture in the Islamic Context	2	-	2	**b**	Islamic and Arabic Architecture
ARCA5	Geographic Information System GIS	2	-	2	**b**	Urban Planning
ARCA4	Urban Conservation	2	-	2	**b**	Urban Planning

The Coding System:

The courses are coded by adopting the literal and numerical system, as tabled below:

UOT : General (University requirements) **ARCH** : Architectural Engineering Requirements **ARCA** : Architecture Specialization Requirements **ARCE** : Buildings Engineering Requirements **MATH :** Maths **PHYS :** Physics **CHEM :** Chemistry **CIVIL:** Civil Engineering **MECH:** Mechanical Engineering **ELECT**: Electrical engineering	**X**
Stage (Level)	**Y**
The order of the course	**Z**

Requirement of Architecture specialization
Elective Courses:

The courses which labelled below, the student should choose (16 Credit Units):

Code	Course	Theoretical Per *h.*	Practical Per *h.*	Credit Unit	Range (Scope)	Pervious Course
ARCE3	Advanced Construction (Building) Systems	2	-	2	**b**	Building Construction-2
ARCE3	Mechanical System	2	-	2	**b**	Introduction to Thermal Sciences
ARCA4	Contemporary Architecture	2	-	2	**b**	Islamic and Vernacular Architecture
ARCA3	Architecture Logic	2	-	2	**b**	Architectural Design-2
ARCA4	Computer-aided Advanced Design	2	-	2	**b**	Computer-aided Design-2
ARCE5	Economical Construction	2	-	2	**b**	Implementation Drawings
ARCE5	Modelling and Simulation	2	-	2	**b**	Computer-aided Design-2
ARCA4	Architectural Conservation Techniques	2	-	2	**b**	Urban Planning
ARCA3	Architectural Thinking Skills	2	-	2	**b**	Architectural Design-2
ARCA5	Architectural Professional Practice	2	-	2	**b**	Methods and Theories of Design
ARCE5	Construction Contracts	2	-	2	**b**	Building Regulations
ARCA5	Special Topics (Subjects) in Architectural Design	2	-	2	**b**	Methods and Theories of Design
ARCA4	Advanced Urban Design	2	-	2	**b**	Urban Planning
ARCA4	Advanced	2	-	2	**b**	Urban Planning

	Housing					
ARCA3	Computer-aided Advanced Design-3	2	-	2	**b**	Computer-aided Design-2
ARCA5	Architecture in the Islamic Context	2	-	2	**b**	Islamic and Arabic Architecture
ARCA5	Geographic Information System GIS	2	-	2	**b**	Urban Planning
ARCA4	Urban Conservation	2	-	2	**b**	Urban Planning

The Coding System:

The courses are coded by adopting the literal and numerical system, as tabled below:

UOT : General (University requirements) **ARCH** : Architectural Engineering Requirements **ARCA** : Architecture Specialization Requirements **ARCE** : Buildings Engineering Requirements **MATH :** Maths **PHYS :** Physics **CHEM :** Chemistry **CIVIL:** Civil Engineering **MECH:** Mechanical Engineering **ELECT**: Electrical engineering	**X**
Stage (Level)	**Y**
The order of the course	**Z**

The Curriculum of Architecture

The First Academic Level						
Code	**Core module**	**Theoretical Per *h***	**Practical Per *h***	**Credit Unit**	**Co module**	**Type**
UOT100	English Language **1**	2	-	2	-	**University Requirements**
UOT101	Computer science	2	-	2	-	
UOT102	Workshop 1	-	4	2	-	
UOT103	Workshop **2**	-	4	2	Workshop 1	
UOT104	Human rights	2	-	2	-	
ARCH100	Introduction in Architecture, Art & Engineering	2	-	2	-	**college (Department) Requirements**
ARCH101	Basic design 1	1	4	3	Co : Introduction in architecture , Architectural drawing 1, Free hand	
ARCH102	Architectural drawing 1	1	2	2	Co: : Introduction in architecture, Basic design 1	
ARCH103	Free hand drawing	1	2	2	Co: Architectural drawing 1	
ARCH104	Mathematic 1	2	-	2	-	
ARCH105	Physics **1**	2	2	3	-	
ARCH106	Architectural Drawings **2**	-	4	2	Architectural drawing 1	
ARCH107	Mathematic 2	2	-	2	Mathematic 1	
ARCH108	Physics 2	2	2	3	Physics 1	
ARCH109	Chemistry	2	-	2	-	
ARCA100	Basic design 2	1	4	3	Basic design 1	**Specialized Requirements - Department**
ARCA101	Principles of Computer aided Design	-	2	1	Architectural drawing 1 / Co: Computer science	
Total		**22**	**30**	**37**		
		52				

The Second Academic Level						
Code	**Core module**	**Theoretical Per *h***	**Practical Per *h***	**Credit Unit**	**(CO)module**	**Type**
UOT200	English Language **2**	2	-	2	English Language 1	**University Requirements**
UOTxxx	Elective university course	2	-	2	Review the elective courses schedule for the university requirements	
ARCH200	Building Construction1	1	2	2	Architectural drawing 2 / Co : Architectural design 1	**college (Department) Requirements**
ARCH201	Computer aided Design1	1	2	2	Basic Computer aided Design	
ARCH203	History and theory of Architecture 1	2	-	2	-	
ARCH204	History and theory of Architecture 1	2	-	2	History and theory of Architecture 1	
ARCH205	Surveying	1	2	2	-	
ARCA200	Architectural design 1	2	6	5	Basic design 2	**Specialized Requirements -Department**
ARCA201	Architectural presentation	-	4	2	CO: Architectural design 1	
ARCA202	Material & methods for construction	2	-	2	Physics 2	
ARCA203	Architectural design 2	2	6	5	Architectural design 1	
ARCA204	Islamic & Arabic Architecture	2	-	2	History and theory of Architecture 1	
ARCA205	Building Construction 2	2	2	3	Building Construction 1/ Co : Architectural design 2	
ARCA206	Computer aided Design 2	1	2	2	Computer aided Design 1	
ARCA207	Environmental systems & control	2	-	2	Co : Architectural design 2	
ARCA208	Fundamental structure analysis	2	-	2	Material & methods for construction	
Total		**26**	**26**	**39**		
		52				

The Third Academic Level						
Code	**Core module**	**Theoretical Per *h***	**Practical Per *h***	**Credit Unit**	**(CO)module**	**Type**
UOT300	English Language **3**	2	-	2	English Language 2	**University Requirements**
ARCA300	Architectural design **3**	2	8	6	Architectural design 2	**Specialized Requirements - Department**
ARCA301	Building Construction **3**	2	2	3	Building Construction 2 / Co: Architectural design3	
ARCA302	Islamic & Vernacular Architecture	2	-	2	Islamic & Arabic Architecture / Co : Architectural design3	
ARCA303	Sustainable Architecture	2	-	2	Environmental systems & control	
ARCA304	Reinforced concrete design	2	-	2	Fundamental structure analysis	
ARCE305	Building acoustics and illumination	2	-	2	-	
ARCA306	Architectural design 4	2	8	6	Architectural design 3	
ARCA307	Building Construction **4**	2	2	3	Building Construction 3 / Co : Architectural design4	
ARCA308	Interior Architecture	2	2	3	Architectural design 3, Building acoustics and illumination/ Co : Architectural design4	
ARCA309	Architecture report writing	2	-	2	-	
ARCA310	Structural Steel Design	2	-	2	Fundamental structure analysis	
ARCA311	Heating, Ventilation and air conditioning for architect	2	-	2	Environmental systems & control	
ARCA312	Elective AR- Architectural Design **1**	2	-	2	Elective course list	
Total		**28**	**22**	**39**		
		50				

Fourth Level						
Code	**Core Module**	**Weekly Hours**			**Co- Module**	**Type**
		Theoretical	**Practical**	**Credit Unites**		
UOT 401	Engineering ethics	2	-	2	-	University Requirement
ARCH400	Methods & Theories of Design	2	-	2	-	Specialized Requirement - Department
ARCH400	Architectural Design 5	2	8	6	Architectural Design 4	
ARCH401	Working Drawings	-	4	2	Building Construction 4	
ARCH402	Landscape Design	2	2	3	Architectural Design 4 / Co:Architectural Design 5	
ARCH403	Urban Planning	2	-	2	Co:Architectural Design 5	
ARCH404	Urban Design and Housing	2	-	2	Architectural Design 4 / Co:Architectural Design 5	
ARCH405	Sanitary Services	2	-	2	-	
ARCH406	Architectural Design 6	1	10	6	Architectural Design 5	
ARCH407	Architecture programming	2	-	2	-	
ARCH408	Psychology to Architects	2	-	2	-	
ARCH409	Quantity Surveying and specification	2	-	2	-	
ARCH4xx	Elective Architectural Course 2	2	-	2	Elective Architectural Course list	
ARCH4xx	Elective Architectural Course 3	2	-	2	Elective Architectural Course list	
ARCH4xx	Elective Architectural Course 4	2	-	2	Elective Architectural Course list	
Total		**27**	**24**	**39**	**Total**	
		51				

Fifth Level						
Code	**Core Module**	**Weekly Hours**			**Co- Module**	**Type**
		Theoretical	**Practical**	**Credit Unites**		
ARCA500	Graduation Projects 1	2	10	7	Architectural Design 5 Writing Architectural Reports Methods & Theories of Design Programing to Architects	specialized Requirement- Department
ARCA501	Architectural Philosophy and Criticism	2	-	2	Methods & Theories of Design	
ARCA502	Buildings Regulations	2	-	2	-	
ARCA503	Graduation Projects 2	2	10	2	Graduation Projects 1	
ARCA504	Architectural Details	-	4	-	Graduation Projects 1/ Co:Graduation Projects 2	
ARCA505	Projects Management	2	-	2	-	
ARCA506	Elective Architectural Course 5	2	-	2	Elective Architectural Course list	
ARCA507	Elective Architectural Course 6	2	-	2	Elective Architectural Course list	
ARCA508	Elective Architectural Course 7	2	-	2	Elective Architectural Course list	
ARCA509	Elective Architectural Course 8	2	-	2	Elective Architectural Course list	
		30	**24**	**18**	**Total**	
		42				

Module Requirement	**Module Number**	**Weekly Hours**			
		Theoretical	**Practical**	**Credit Unites**	
University Requirement	8	14	8	18	10%
College Requirements	16	24	22	35	19%
Architecture Department Requirement	48	83	96	131	71%
Total for all Levels		**121**	**126**	**184**	**100%**

Study Plan

First Level

Chapter one						
Code	**Core Module**	**Weekly Hours**			**Co- Module**	**Type**
		Theoretical	**Practical**	**Credit Unites**		
UOT100	English Language 1	2	-	2	-	University Requirement
UOT102	Workshop 1	-	4	2	-	
ARCH100	Introduction to Architecture, Art & Engineering	2	-	2	-	College Requirements (Department)
ARCH101	Basic Design 1	1	4	3	Co:Introduction to Architecture, Architecture Drawing 1, Free Hand	
ARCH102	Architectural Drawing 1	1	2	2	Co:Introduction in Architecture , Basic Design 1	
ARCH103	Free Hand Drawing	1	2	2	Co:Architecture Drawing 1	
ARCH104	Mathematics 1	2	-	2	-	
ARCH105	Physics 1	2	2	3	-	
Total		**11**	**14**	**18**	**Total**	
		25				

Chapter two						
Code	**Core Module**	**Weekly Hours**			**Co- Module**	**Type**
		Theoretical	**Practical**	**Credit Unites**		
UOT101	Computer Science	2	-	2	-	University Requirement
UOT103	Workshop 2	-	4	2	Workshop 1	
UOT104	Human Rights	2	-	2	-	
ARCH106	Architectural Drawing 2	-	4	2	Architectural Drawing 1	College (Department)
ARCH107	Mathematics 2	2	-	2	Mathematics 1	
ARCH108	Physics 2	2	2	3	Physics 1	
ARCH109	Chemistry	2	-	2		
ARCH100	Basic Design 2	1	4	3	Basic Design 1	Specialized Requirement-Department
ARCH101	Principles of Computer aided design	-	2	1	Architectural Drawing/ Co:Computer Science	
Total		**11**	**16**	**19**	**Total**	
		27				

Second Level

Chapter one						
Code	**Core Module**	**Weekly Hours**			**Co- Module**	**Type**
		Theoretical	**Practical**	**Credit Unites**		
UOT200	English Language 2	2	-	2	English Language 2	University Requirement
UOTxxx	Elective University Course 1	2	-	2	Elective University Course list	
ARCH200	Building Construction 1	1	2	2	Architectural Drawing 2/ Co: Architectural Design	College (Department)
ARCH201	Computer Aided Design 1	1	2	2	Principles in Computer aided design	
ARCH203	History and Theories of Architecture 1	2	-	2	-	
ARCA200	Architectural Design 1	2	6	5	Design Basic 2	Specialized Requirement -Department
ARCA201	Architectural Presentation	-	4	2	Co: Architectural Design 1	
ARCA202	Materials and Methods of Construction	2	-	2	Physics 2	
		12	**14**	**19**	**Total**	
		26				

Chapter two						
Code	**Core Module**	**Weekly Hours**			**Co- Module**	**Type**
		Theoretical	**Practical**	**Credit Unites**		
ARCH204	History and Theories of Architecture 1	2	-	2	History and Theories of Architecture 1	College Requirement
ARCH205	Surveying	1	2	2	-	
ARCH203	Architectural Design 2	2	6	5	Architectural Design 1	Specialized Requirement - Department
ARCA204	Islamic & Arabic Architecture	2	-	2	History and Theories of Architecture 1	
ARCA205	Buildings Construction 2	2	2	3	Buildings Construction 1/ Co:Architectural Design 2	
ARCA206	Computer aided design 2	1	2	2	Computer aided design 1	
ARCA207	Environmental systems & Control	2	-	2	Co:Architectural Design 2	
ARCA208	Fundamental Structure Analysis	2	-	2	Materials and Methods of Construction	
		14	**12**	**20**	**Total**	
		26				

Third Level

Chapter one

Code	Core Module	Weekly hours			Co-Module	Type
		Theoretical	Practical	Credit unites		
UOT300	English Language 3	2	-	2	English Language **2**	University Requirement
ARCA300	Architectural Design 3	2	8	6	Architectural design 2	Specialized Requirement - Department
ARCA301	Building Construction 3	2	2	3	Building Construction 2 Co:/ Architectural Design 3	
ARCA302	Islamic & Local Architecture	2	-	2	Islamic & Arabic Architecture / Co:Architectural Design 3	
ARCA303	Sustainable Architecture	2	-	2	Environmental Systems & Control	
ARCA304	Reinforced Concrete Design	2	-	2	Fundamental Structure Analysis	
ARCE305	Building Acoustics and Illumination	2	-	2	-	
		14	**10**	**19**		**Total**
		24				

Chapter Two

Code	Core Module	Weekly hours			Co-Module	Type
		Theoretical	Practical	Credit unites		
ARCA306	Architectural Design 4	2	8	6	Architectural design 3	Specialized Requirement
ARCA307	Building Construction 4	2	2	3	Building Construction 3 / Co:Architectural Design 4	
ARCA308	Interior Architecture	2	2	3	Architectural Design 3/ Building Acoustics and Illumination/ Co: Architectural Design 4	
ARCA309	Architecture writing report	2	-	2	-	
ARCA310	Steel Structure Design	2	-	2	Fundamental Structure Analysis	
ARCA311	Heating, Ventilation, and Air Conditioning in Architecture	2	-	2	Environmental Systems & Control	
UOT3xx	Elective Architectural /Module 1	2	-	2	Ellective Module List	
		14	**12**	**20**		**Total**
		26				

Summer Training (No Unit) Practical Training By (…. Weaks) … Hour

Fourth Level

Chapter One

Code	Core Module	Weekly hours			Co-Module	Type
		Theoretical	Practical	Credit unites		
ARCA400	Architectural Design 5	2	8	6	Architectural design 4	Specialized Requirement
ARCA401	Architectural Working Drawings	-	4	2	Building Construction 2 / Building Construction 3 / Building Construction 4	
ARCA402	Landscape Architecture	2	2	3	Architectural Design 4/ Co:Architectural Design 5	
ARCA403	Urban Planning	2	-	2	Co:Architectural Design 5	
ARCA404	Theories of Urban Design & Housing	2	-	2	Architectural Design 4/ Co:Architectural Design 5	
ARCE405	Sanitary Services	2	-	2	Environmental Systems & Control	
ARCE4xx	Elective Architectural /Module 2	2	-	2	Ellective Module List	
		12	14	19		Total
		26				

Chapter Two

Code	Core Module	Weekly hours			Co-Module	Type
		Theoretical	Practical	Credit unites		
UOT 401	Engineering Ethics	2	-	2	-	University Requirement
ARCH 400	Methods & Theories of Design	2	-	2	-	Faculty Requirement
ARCA 406	Architectural Design 6	1	10	6	Architectural design 5	Specialized Requirement
ARCA 407	Programming for Architects	2	-	2	-	
ARCA 408	Architectural Psychology	2	-	2	-	
ARCA 409	Quantity Surveying and Specifications	2	-	2	-	
ARCA 410	Elective Architectural /Module 3	2	-	2	Ellective Module List	
ARCA 411	Elective Architectural /Module 4	2	-	2	Ellective Module List	
		15	10	20		Total
		25				

Fifth Level

Chapter One

Code	Core Module	Weekly hours			Co-Module	Type
		Theoretical	Practical	Credit unites		
ARCA500	Graduation project 1	2	10	7	Architectural Design 5 Writing Architectural Reports Methods & Theories of Design Programming for Architects	Specialized Requirement
ARCA501	Architectural Philosophy and Criticism	2	-	2	Methods & Theories of Design	
ARCA502	Building Regulations	2	-	2	-	
ARCA5xx	Elective Architectural /Module 5	2	-	2	Ellective Module List	
ARCA5xx	Elective Architectural /Module 6	2	-	2	Ellective Module List	
Total		10	10	15		
		20				

Chapter Two

Code	Core Module	Weekly hours			Co-Module	Type
		Theoretical	Practical	Credit unites		
ARCA503	Graduation project 2	2	10	7	Graduation project 1	Specialized Requirement
ARCA504	Architectural Details	-	4	2	Graduation project 1 Co:Graduation project 2	
ARCA505	Projects Management	2	-	2	-	
ARCA5xx	Elective Architectural /Module 7	2	-	2	Ellective Module List	
ARCA5xx	Elective Architectural /Module 8	2	-	2	Ellective Module List	
		8	14	15		Total
		22				