


BACHELOR PROGRAM

BACHELOR IN

ARCHITECTURAL ENGINEERING

2020-2021

 University of Nizwa College of Engineering and Architecture					Bachelor in Architectural Engineering									
					Study Plan					160				
					Updated May 2020					Credits				
FIRST SEMESTER					SECOND SEMESTER									
CODE	COURSE	C	L	P	CODE	COURSE	C	L	P					
FIRST YEAR														
ENGN103	ENGINEERING DRAWING	2	1	2	ARCH102	ARCHITECTURAL DESIGN I	5	2	6					
ARCH103	ARCHITECTURAL GRAPHICS I	2	1	2	ARCH105	ARCHITECTURAL GRAPHICS II	2	1	2					
ARCH107	BUILDING PHYSICS	2	2	0	ARCH104	PERSPECTIVE DRAWING	2	0	4					
MATH116+L	PRE CALCULUS	4	4	0	COMP101+L	COMPUTER SKILLS	3	3	0					
ENGL150	ENGLISH LANGUAGE I	3	3	0	ENGN101	INTRODUCTION TO ENGINEERING	2	2	0					
ARAB100	ARABIC LANGUAGE I	3	3	0	ENGL151	ENGLISH LANGUAGE II	3	3	0					
		16	14	4			17	11	12					
SECOND YEAR														
ARCH201	ARCHITECTURAL DESIGN II	5	2	6	ARCH202	ARCHITECTURAL DESIGN III	5	2	6					
ARCH106	FREEHAND DRAWING	2	0	4	ARCH203	HISTORY OF ARCHITECTURE I	2	2	0					
ARCH205	BUILDING CONSTRUCTION I	3	3	0	ARCH206	DIGITAL GRAPHICS II	3	2	2					
ARCH204	DIGITAL GRAPHICS I (CAD)	3	2	2	ARCH303	BUILDING CONSTRUCTION II	3	2	2					
MATH211+L	CALCULUS I	4	4	0	ARCH207	STRUCTURAL DESIGN I	3	3	0					
		17	11	12			16	11	10					
THIRD YEAR														
ARCH301	ARCHITECTURAL DESIGN IV	5	2	6	ARCH302	ARCHITECTURAL DESIGN V	5	2	6					
ARCH209	STRUCTURAL DESIGN II	3	3	0	ARCH310	CONSTRUCTION DRAWINGS II	2	0	4					
ARCH309	HUMAN BEHAVIOUR IN BUILT ENVIRONMENT	2	2	0	ARCH308	ENGG.SERVICES I (PLUMBING & HEATING)	2	2	0					
ARCH304	HISTORY OF ARCHITECTURE II	2	2	0	ARCH307	ISLAMIC ARCHITECTURE	2	2	0					
ARCH305	CONSTRUCTION DRAWINGS I	2	0	4	HIST150	ISLAMIC CIVILIZATION	3	3	0					
ARAB101	ARABIC LANGUAGE II	3	3	0	ENGL155	COMMUNICATION SKILLS	3	3	0					
		17	12	10			17	12	10					
FOURTH YEAR														
ARCH401	ARCHITECTURAL DESIGN VI	5	2	6	ARCH402	ARCHITECTURAL DESIGN VII	5	2	6					
ARCH405	HOUSING AND PLANNING PRINCIPLES	2	2	0	ARCH409	URBAN DESIGN	2	2	0					
ARCH407	INTERIOR DESIGN	3	2	2	ARCH408	LANDSCAPE DESIGN	3	2	2					
ARCH404	ENGG.SERVICES II (ACOUSTICS & LIGHTING)	2	2	0	ARCH403	ARCHITECTURAL THEORIES AND DESIGN METHODOLOGIES	2	2	0					
ARCH406	BUILDING AND ENVIRONMENT	2	2	0	ARCH410+L	SURVEYING	2	1	2					
	COLLEGE ELECTIVE	3	3	0		DEPARTMENT ELECTIVE	2	2	0					
		17	13	8			16	11	10					
FOURTH YEAR - SUMMER					ENGN333	INDUSTRIAL TRAINING	2	0	4					
FIFTH YEAR														
ARCH510	GRADUATION PROJECT	9	2						14					
ARCH503	ARCHITECTURAL DESIGN VIII	5	2	6	ARCH504	PROFESSIONAL PRACTICE	2	2	0					
ARCH508	ADVANCED BUILDING TECHNOLOGY	2	2	0	ARCH506	BUILDING SPECIFICATION AND ESTIMATION	2	2	0					
ARCH505	ARCHITECTURAL CONSERVATION AND PRESERVATION	2	2	0	MNGT100	ENTREPRENEURSHIP CREATIVITY AND INNOVATION	3	2	2					
		18	11	6			7	6	16					

To be taken preferably in summer semesters

Degree Plan for BSc. Eng. in Architectural Engineering

Minimum No. of Credits for the Degree Plan = 160					
University Requirements = 24 Credits					
Course Code	Course Name	Credit Hours	Contact Hours		Pre-requisites/Co-requisites
			Theory	Practical	
ARAB100	Arabic Language-I	3	3	0	-
ARAB101	Arabic Language-II	3	3	0	ARAB100
COMP101/L	Computer Skills	3	2	2	Comp-A, Comp-B (Digital Literacy)/L
ENGL150	English Language-I	3	3	0	-
ENGL152	English Language-II	3	3	0	ENGL150
ENGL155	Communication Skill	3	3	0	ENGL152
HIST150	Islamic Civilization	3	3	0	-
MNGT100/L	Entrepreneurship Creativity and Innovation	3	2	2	-/L

College Requirements = 17 Credits					
Course Code	Course Name	Credit Hours	Contact Hours		Pre-requisites/Co-requisites
			Theory	Practical	
ENGN103	Engineering Drawings	2	1	2	None
MATH116/L	Pre-Calculus	4	4	0	None/L
MATH211/L	Calculus-I	4	4	0	MATH116/L
ENGN101	Introduction to Engineering	2	2	0	MATH116
ENGN333	Industrial Training	2	0	4	110 credits
College Elective		3 Credits			

Major Requirements = 119 Credits					
Course Code	Course Name	Credit Hours	Contact Hours		Pre-requisites/Co-requisites
			Theory	Practical	
ARCH102	Architectural Design I	5	1	6	ARCH103
ARCH201	Architectural Design II	5	2	6	ARCH102
ARCH202	Architectural Design III	5	2	6	ARCH201
ARCH301	Architectural Design IV	5	2	6	ARCH202, ARCH204
ARCH302	Architectural Design V	5	2	6	ARCH301, ARCH206
ARCH401	Architectural Design VI	5	2	6	ARCH302
ARCH402	Architectural Design VII	5	2	6	ARCH401
ARCH503	Architectural Design VIII	5	2	6	ARCH402,405,409
ARCH510	Graduation Project	9	2	14	ARCH402,405,409, Final Year
ARCH103	Architectural Graphics I	2	1	2	None
ARCH105	Architectural Graphics II	2	1	2	ARCH103
ARCH104	Perspective Drawing	2	0	4	ARCH103, ENGN 103
ARCH106	Freehand Drawing	2	0	4	ARCH104
ARCH107	Building Physics	2	2	0	None
ARCH203	History of Architecture I	2	2	0	ARCH103

ARCH304	History of Architecture II	2	2	0	ARCH203
ARCH307	Islamic Architecture	2	2	0	ARCH304
ARCH204	Digital Graphics I (CAD)	3	2	2	ENGN103, COMP101/L
ARCH206	Digital Graphics II	3	2	2	ARCH204
ARCH205	Building Construction I	3	3	0	ARCH102
ARCH303	Building Construction II	3	2	2	ARCH205
ARCH305	Construction Drawings I	2	0	4	ARCH303
ARCH310	Construction Drawings II	2	0	4	ARCH305
ARCH508	Advanced Building Technology	2	2	0	ARCH303
ARCH207	Structural Design I	3	3	0	MATH211 ENGN101
ARCH209	Structural Design II	3	3	0	ARCH207
ARCH409	Urban Design	2	2	0	ARCH302
ARCH308	Engineering Services I (HVAC)	2	2	0	ARCH107, ARCH202
ARCH404	Engineering Services II (Acoustics and Lighting)	2	2	0	ARCH308
ARCH406	Building and Environment	2	2	0	ARCH107, ARCH308
ARCH405	Housing and Planning Principles	2	2	0	ARCH301
ARCH407	Interior Design	3	2	2	ARCH301
ARCH408	Landscape Design	3	2	2	ARCH301
ARCH309	Human Behavior in Built Environment	2	2	0	ARCH202
ARCH504	Professional Practice	2	2	0	ARCH401
ARCH403	Architectural Theories and Design Methodologies	2	2	0	ARCH304
ARCH506	Building Specification and Estimation	2	2	0	ARCH303
ARCH410	Surveying	2	1	2	MATH211
ARCH505	Architectural Conservation and Preservation	2	2	0	ARCH302
	Major Elective	2 Credits			
ARCH411	Sustainable Architecture	2	1	2	ARCH401
ARCH412	Research Methods in Architecture Studies	2	2	0	ARCH401
ARCH413	Contemporary Arab and Omani Architecture	2	2	0	ARCH401
ARCH414	Smart Buildings	2	2	0	ARCH401
ARCH417	Building Information Modeling	2	1	2	ARCH206, ARCH303
INTD302	Theory of Color in Interior Design	2	2	0	ARCH102
INTD411	Graphic Design and Illustration	2	1	2	ARCH105
INTD503	Modern Practices in Interior Design	2	2	0	ARCH206
INTD504	Project Management	2	2	0	