

The background features a large, light blue watermark of the University of Anbar logo. It consists of a stylized archway with a central tower and a bird flying above it. The tower has Arabic calligraphy on it. Below the archway, the years '1987' and '1408' are visible. The entire logo is set against a light green circular pattern.

**Curriculum Guide of the
University of Anbar for the
Academic Year
2021 - 2022**

UNIVERSITY OF ANBAR

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UNIVERSITY OF ANBAR



**Departmental Curricula
for College of Arts**

1987 1408
UNIVERSITY OF ANBAR

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Foundations of Sociology	3		3		Introduction to Sociology	3		3
	foundations of anthropology	3		3		Introduction to social service	3		3
	foundations of social service	3		3		Introduction to anthropology	3		3
	Social concepts and texts in English	2		2		Philosophy	2		2
	general psychology	2		2		English language /Headway	2		2
	Human rights	2		2		Computer Science	1	1	2
	Arabic language	2		2		intercultural dialogue	2		2
Total Hours and Units		17		17	Total Hours and Units		16	1	17

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Educational sociology	2		2		Economic Sociology	2		2
	Iraqi society	2		2		Social problems	3		3
	Social Research Methods	3		3		Social Research Methods	3		3
	Social Anthropology	2		2		Urban sociology	2		2
	Texts and Social Concepts in English	2		2		Computer Science	1	1	2
	Rural Sociology	2		2		English language /Headway	2		2
	Social Psychology	3		3		school guidance	2		2
Total Hours and Units		16		16	Total Hours and Units		15	1	16

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Social thought	3		3		Applied Statistics	3		3
	Social Statistics	3		3		criminal reform	2		2
	Criminology	2		2		contemporary social thought	3		3
	Sociology of the family	2		2		research techniques	2		2
	Social Research Design	2		2		social change in English	2		2
	Population Sociology	2		2		Sociology of women	2		2
	English language /headway	2		2		Cultural Sociology	3		3
Total Hours and Units		16		16	Total Hours and Units		17		17

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Social planning	3		3		Social theories	3		3
	Social theories	3		3		Social control	2		2
	Political Sociology	3		3		Legal Sociology	2		2
	Religious Sociology	2		2		Social development	3		3
	Organization Sociology	2		2		Social movements	2		2
	The sociology of crises	2		2		Sociology of Communication	2		2
	English language /Headway	2		2		Graduation research		2	2
Total Hours and Units		17		17	Total Hours and Units		16	2	16

UNIVERSITY OF ANBAR

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Principles of public relation	2	0	2		Principles of public relation	2	0	2
	Mass communication	2	0	2		Mass communication	2	0	2
	Radio and TV news	2	2	3		Radio and TV news	2	2	3
	Tv photography	1	2	2		Tv photography	1	2	2
	psychology	2	0	2		psychology	2	0	2
	Media language	2	0	2			2	0	2
	Human rights and Democracy	2	0	2		Human rights and Democracy	2	0	2
	English language	2	0	2		English language	2	0	2
	Computer Science	1	2	2		Computer Science	1	2	2
	Media and digital education	1	2	2		Media and digital education	1	2	2
Total Hours and Units		17	8	21	Total Hours and Units		17	8	21

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Radio & TV Editing / Interview and Investigation	2	2	3		Radio & TV Editing / Interview and Investigation	2	2	3
	Scientific research	2		2		Scientific research	2		2
	Communication theory	2		2		Communication theory	2		2
	Political contact	2		2		Political contact	2		2
	The art of voice & recitation	1	2	2		The art of voice & recitation	1	2	2
	Radio & TV production and directing	1	2	2		Radio & TV production and directing	1	2	2
	Digital technology and Computer science	1	2	2		Digital technology and Computer science	1	2	2
	Media language	2		2		Media language	2		2
	English language	2		2		English language	2		2
	Radio art	2	2	3		Radio art	2	2	3
Total Hours and Units		17	10	22	Total Hours and Units		17	10	22

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Radio & TV Editing, Correspondence, and report news	1	2	2		Radio & TV Editing, Correspondence, and report news	1	2	2
	Modern news investigations	1	2	2		Modern news investigations	1	2	2
	Media legislation and ethics	2		2		Media legislation and ethics	2		2
	General opinion	2		2		General opinion	2		2
	Technology of information	1	2	2		Technology of information	1	2	2
	research and statistical application in media	1	2	2		research and statistical application in media	1	2	2
	Media discourse language	2		2		Media discourse language	2		2
	English language	2		2		English language	2		2
	Radio and TV networks	2		2		Radio and TV networks	2		2
Total Hours and Units		15	10	20	Total Hours and Units		15	10	20

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Specialized Radio & TV programs	2	2	3		Specialized Radio & TV programs	2	2	3
	Radio & TV advertisement	1	2	2		Radio & TV advertisement	1	2	2
	Scenario	1	2	2		Scenario	1	2	2
	Radio & TV technology	1	2	2		Radio & TV technology	1	2	2
	Propaganda psychological warfare	2	0	2		Propaganda psychological warfare	2	0	2
	Management and planning in Radio & TV	2	0	2		Management and planning in Radio & TV	2	0	2
	Language apps	2	0	2		Language apps	2	0	2
	English language	2	0	2		English language	2	0	2
	Graduation project	0	2	1		Graduation project	0	2	1
Total Hours and Units		13	10	18	Total Hours and Units		13	10	18

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Principles of public relation	2	0	2		Principles of public relation	2	0	2
	Mass communication	2	0	2		Mass communication	2	0	2
	Press Editing/ Art of News & Press reporting	2	2	3		Press Editing/ Art of News & Press reporting	2	2	3
	Digital journalist	2	2	1		Digital journalist	2	2	1
	Press history	2		2		Press history	2		2
	Media language	2	0	2		Media language	2	0	2
	Human rights and Democracy	2	0	2		Human rights and Democracy	2	0	2
	English language	2	0	2		English language	2	0	2
	Computer Science	1	2	2		Computer Science	1	2	2
	Media & Digital education	1	2	2		Media & Digital education	1	2	2
Total Hours and Units		17	8	21	Total Hours and Units		17	8	21

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Press Editing / interview & investigation	2	2	3		Press Editing / interview & investigation	2	2	3
	Scientific research	2		2		Scientific research	2		2
	Communication theory	2		2		Communication theory	2		2
	Political contact	2		2		Political contact	2		2
	Media economics	2		2		Media economics	2		2
	Media social	2		2		Media social	2		2
	Digital technology & Computer science	2	2	3		Digital technology & Computer science	2	2	3
	Media language	2		2		Media language	2		2
	English language	2		2		English language	2		2
Total Hours and Units		17	4	19	Total Hours and Units		17	4	19

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Press Editing/ Article & Column	2	2	3		Press Editing/ Article & Column	2	2	3
	Arab and international press	2		2		Arab and international press	2		2
	Investigation journalism	2	2	3		Investigation journalism	2	2	3
	Media legislation and ethics	2		2		Media legislation and ethics	2		2
	General opinion	2		2		General opinion	2		2
	Technology of information	1	2	2		Technology of information	1	2	2
	Media research methods	2		2		Media research methods	2		2
	Media discourse language	2		2		Media discourse language	2		2
	English language	2		2		English language	2		2
Total Hours and Units		17	6	20	Total Hours and Units		17	6	20

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Press Editing/ Specialized journalism	2	2	3		Press Editing/ Specialized journalism	2	2	3
	Electronic press	2		2		Electronic press	2		2
	Press announcement	2		2		Press announcement	2		2
	Press release	1	2	2		Press release	1	2	2
	Propaganda psychological warfare	2		2		Propaganda psychological warfare	2		2
	Managing press organizations	2		2		Managing press organizations	2		2
	Language apps	2		2		Language apps	2		2
	English language	2		2		English language	2		2
	Graduation project		2	1		Graduation project		2	1
Total Hours and Units		15	6	18	Total Hours and Units		15	6	18

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Ancient history of Iraq	3		3		Ancient history of Iraq.	3		3
	History of the Arabs pre-Islam	3		3		History of the Arabs pre-Islam	3		3
	The history of the era of the message	3		3		The history of the era of the caliphate	3		3
	History of Europe in the Middle Ages.	3		3		The history of Europe in the Middle Ages.	3		3
	Ancient history of world civilizations	2		2		Ancient history of world civilizations	2		2
	Historical research method	2		2		Historical research method	2		2
	Human rights	2		2		Democracy	2		2
	historical geography	2		2		English language	2		2
	Computer Science	1	1	2		Arabic language	2		2
Total Hours and Units		21		22	Total Hours and Units		22		22

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	History of the ancient Near East	3		3		History of the ancient Near East	3		3
	History of the Umayyad state	3		3		History of the Umayyad state	3		3
	History of Europe in the Renaissance	3		3		History of Europe in the Renaissance	3		3
	Modern history of Arab countries	3		3		Modern history of Arab countries	2		2
	History of Morocco&Andalusia	2		2		History of Morocco&Andalusia	2		2
	The Ottoman Empire	2		2		The Ottoman Empire	2		2
	History of modern contemporary Asia	3		3		History of modern contemporary Asia	3		3
	English language	2		2		English text in (ancient, Islamic, modern, & contemporary) history.	2		2
Total Hours and Units		21		21	Total Hours and Units		21		21

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Modern History of Iraq	2		2		Modern History of Iraq.	2		2
	The history of the Abbasid state	3		3		The history of the Abbasid state	3		3
	The philosophy of history	2		2		The philosophy of history	2		2
	The spread of Islam in Africa & Asia	2		2		The spread of Islam in Africa & Asia	2		2
	The history of Islamic civilization	3		3		The history of the Arab-Islamic civilization	3		3
	The contemporary history of the Arab countries	2		2		The contemporary history of Arab countries	2		2
	Modern European history (1789-1914)	2		2		Modern European history (1857-1914)	2		2
	English language	2		2		Western civilization in English	2		2
Total Hours and Units		18		18	Total Hours and Units		18		18

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	History of Contemporary Iraq	3		3		History of Contemporary Iraq	3		3
	History of Islamic thought	2		2		History of Islamic thought	2		2
	Modernization in contemporary Islamic countries	3		3		Modernization in contemporary Islamic countries	3		3
	History of the major powers	3		3		The history of the major powers	3		3
	Contemporary African history	2		2		Modern African history	2		2
	History of the Americas	2		2		History of the Americas	2		2
	Global modernization experiences	2		2		Global modernization experiences	2		2
	Graduation Project	2		2		English language	2		2
Total Hours and Units		19		19	Total Hours and Units		19		19

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Australia's geography	2		2		Climatology	3		3
	Weather science	3		3		Geomorphology	3		3
	Cartography	3		3		Topographic Maps	3		3
	Research method	2		2		Geostatistics	3		3
	Geologist	2		2		Geography of Africa	2		2
	Arabic Language	2		2		Public space	2		2
	Human rights	2		2		Geographical thought	2		2
	English language	2		2		Iraq's history	2		2
						Computer Science	2		2
Total Hours and Units		18		18	Total Hours and Units		22		22

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Geography of Asia	2		2		Geography of Europe	2		2
	Geomorphology	3		3		Applied climate	3		3
	Thematic maps	3		3		Remote sensing (functional)		3	3
	Soil geography	2		2		The geography of the Arab world	2		2
	Quantitative methods	3		3		Agriculture geography	2		2
	Social geography	2		2		Transportation geography	3		3
	Computer Science	2		2		Geography of natural resources	2		2
						English language	2		2
Total Hours and Units		17		17	Total Hours and Units		16	3	19

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	North America geography	2		2		geography of south America	2		2
	local climate	3		3		Weather changes	3		3
	Information Systems Theoretical Gis (Practical)		3	3		An application project using GIS	3		3
	Energy geography	3		3		Geography of water resources	3		3
	Geography of cities	2		2		Geography of health&environment	3		3
	life geography	2		2		Population geography	2		2
	English language	2		2		Human field	3		3
	Natural field	3		3					
Total Hours and Units		17	3	20	Total Hours and Units		19		19

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Iraq's natural geography	2		2		Geography of seas and Oceans	2		2
	Industry geography	2		2		Industrial location theories	2		2
	Environmental problems	2		2		Planning and Development	2		2
	Geomatics	3		3		Iraq's human geography	2		2
	Dry regions	2		2		Geography of services	2		2
	Geopolitics	2		2		International theories	2		2
	Graduation Project	2		2		English language	2		2
						Graduation Project	2		2
Total Hours and Units		15		15	Total Hours and Units		16		16

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Traditional grammar	2	1	3		Traditional grammar	2	1	3
	Phonetics1	2	1	3		Phonetics2	2	1	3
	Introduction to Literature Poetry	3		3		Introduction to (Drama& Prose)	3		3
	Reading& Listening	2	1	3		Writing	2	1	3
	Communication skills level 1	1	1	2		Communication skills level 2	1	1	2
	Specialization (French 1-7)	2		2		Specialization (French 7-14)	2		2
	Arabic language	2		2		Computer science	2		2
	Human right	2		2		Democracy	2		2
Total Hours and Units		16	4	20	Total Hours and Units		16	4	20

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Advanced syntax 1	2	1	3		Advanced syntax 2	2	1	3
	English Phonology1	2	1	3		English Phonology2	2	1	3
	16 th C. Poetry	3		3		17 th C. Poetry	3		3
	Renaissance theatre	3		3		Shakespearean (comedy)	3		3
	18 th century novels	3		3		19 th century novels	3		3
	Reading& Listening	2		2		Writing	2		2
	Communication skills level 1	1	1	2		Communication skills level 2	1	1	2
	Specialization (French 15-20)	2		2		Specialization (French 20-25)	2		2
	Computer science	2		2		Arabic language	2		2
Total Hours and Units		20	3	23	Total Hours and Units		19	4	23

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Morphology	2	1	3		Advanced syntax	2	1	3
	Linguistics 1	3		3		Linguistics 2	3		3
	Introduction to translate 1	2		2		Introduction to translate 2	2		2
	Article	1	1	2		research	2		2
	English Poetry (1660-1800)	3		3		Romantic English Poetry	3		3
	Elizabethan theatre (Shakespearean 2/ tragedy)	3		3		English theatre until modern era (Bernard shaw)	3		3
	Victorian Novel 1	3		3		Victorian Novel 1	3		3
	Specialization (French 25-30)	2		2		Specialization (French 31-36)	2		2
Total Hours and Units		19	2	21	Total Hours and Units		20	1	21

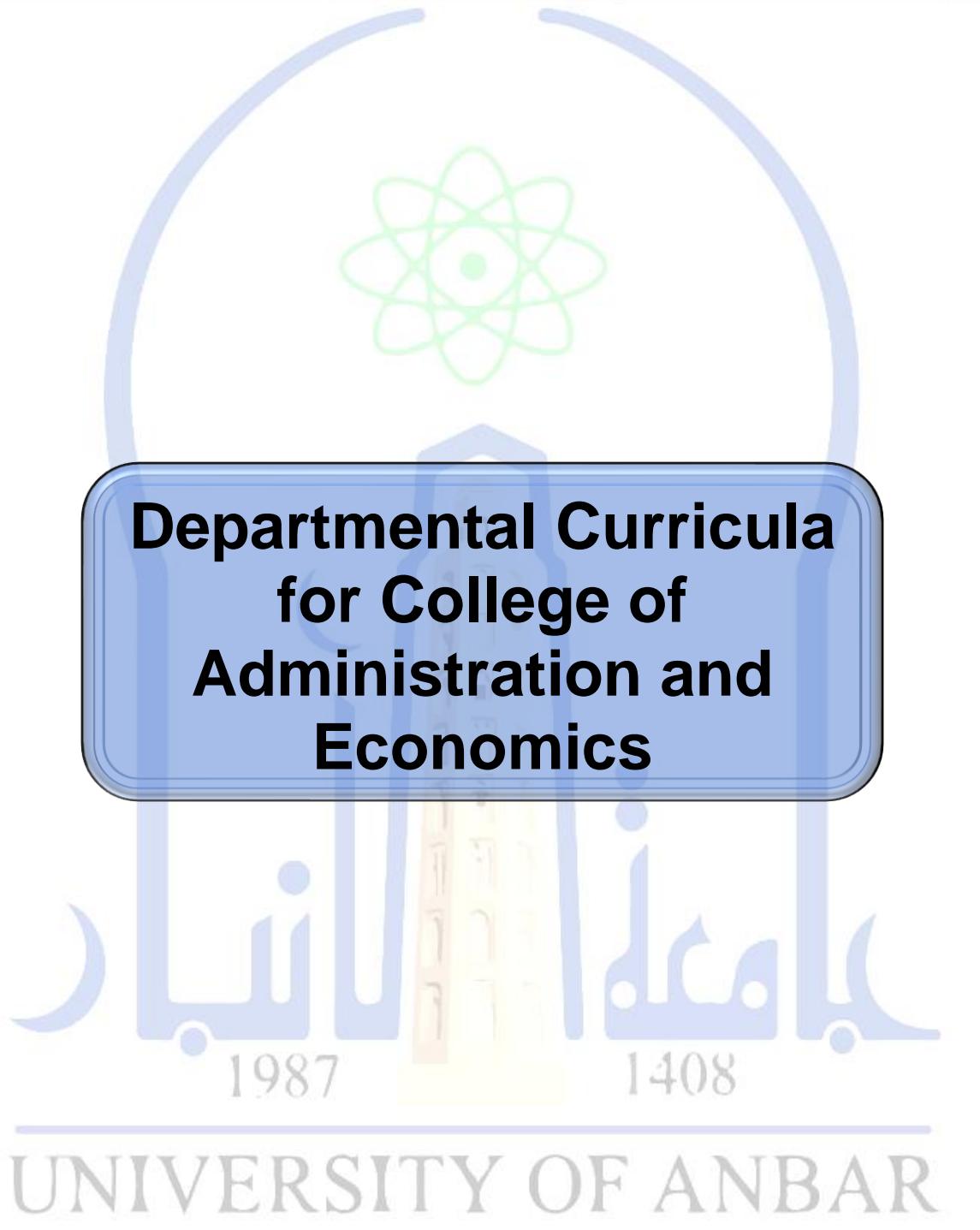
Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Transformational Grammar Level 1	2		2		Transformational Grammar Level 2	2		2
	Linguistics	2		2		Linguistics	2		2
	Translation	2		2		Translation	2		2
	Victorian Poetry	3		3		English Poetry in 20 th century	3		3
	Modern English theatre	3		3		Modern American theatre	3		3
	Modern English Novel	3		3		Modern American Novel	3		3
	Introduction to history of literary criticism	3		3		Critical school and their application	3		3
	Specialization (French 36-40)	2		2		Specialization (French 40-45)	2		2
	Graduation research project	1		1		Graduation research project	1		1
Total Hours and Units		21		21	Total Hours and Units		21		21

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Grammar	3		3		Grammar	3		3
	Morphology	2		2		Morphology	2		2
	Rhetoric	3		3		Rhetoric	2		2
	Pre-Islamic Literature	3		3		Pre-Islamic Literature	3		3
	Library and Resources	2		2		Research Methodology and Text Verification	2		2
	Computer Science	2		2		Language Skills	2		2
	Human Rights	2		2		History	2		2
	English language	2		2		Freedoms	2		2
Total Hours and Units		19		19	Total Hours and Units		18		18

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Grammar	3		3		Grammar	3		3
	Morphology	2		2		Morphology	2		2
	Rhetoric	3		3		Rhetoric	3		3
	Islamic literature	3		3		Islamic literature	3		3
	Rhythm and Rhyme	2		2		Rhythm and Rhyme	2		2
	Arabic dictionary	2		2		Old Book	2		2
	Interpretation Methods	2		2		English language	2		2
	Philosophy & Logic	2		2					
Total Hours and Units		19		19	Total Hours and Units		19		19

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Grammar	3		3		Grammar	3		3
	Abbasid literature	3		3		Abbasid literature	3		3
	Andalusian Literature	3		3		Andalusian literature	3		3
	Quranic text analysis	2		2		Quranic text analysis	2		2
	Ancient literary criticism	3		3		ancient literary criticism	3		3
	Linguistics	2		2		Semantics	2		2
	Old book	2		2		Late antiquity literature	2		2
	English language	2		2		Literary text analysis	2		2
Total Hours and Units		20		20	Total Hours and Units		20		20

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Grammar	3		3		Grammar	3		3
	philology	2		2		Grammar schools	2		2
	Comparative literature	2		2		Comparative literature	2		2
	Modern literary criticism	3		3		Modern literary criticism	3		3
	Modern Arabic poetry	2		2		Modern Arabic poetry	2		2
	Modern Arabic prose	2		2		Modern Arabic prose	2		2
	Quranic text analysis	2		2		Quranic text analysis	2		2
	Optional	2		2		English language	2		2
						Graduation research	2		2
Total Hours and Units		18		18	Total Hours and Units		20		20



**Departmental Curricula
for College of
Administration and
Economics**

1987 1408
UNIVERSITY OF ANBAR

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Principles of business Administration 1	3		3		Principles of business Administration 2	3		3
	Principles of economics 1	2		2		Principles of economics 2	3		3
	Accounting principles1	3		3		Accounting principles2	3		3
	Microsoft office 1	1	2	2		Microsoft office 2	1	2	2
	Mathematics for business	3		3		Statistics for business	3		3
	Arabic Language	2		2		Human Rights & democracy	2		2
	English readings in business	2		2		English readings in business	2		2
						English Language	2		2
Total Hours and Units		16	2	17	Total Hours and Units		19	2	20

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	marketing management	3		3		Marketing Research	2		2
	Human Resource Management	3		3		Intellectual Capital Management	2		2
	organization theory	3		3		Organization behaviour	3		3
	Intermediate Accounting	2		2		Financial Accounting	2		2
	The Commercial code	3		3		E-commercial	2		2
	Inventory management	2		2		Supply chain management	2		2
	Business spreadsheet by Microsoft Excel	2	1	2		Advanced business spreadsheet by Microsoft Excel	1	2	2
						English Language	2		2
Total Hours and Units		17		18	Total Hours and Units		16		17

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Financial management 1	3		3		Financial management 2	3		3
	Strategic management	3		3		Strategic Thinking	3		2
	Banking management	3		3		Insurance management	3		3
	Cost Accounting 1	3		3		Cost Accounting 2	3		3
	Business Quantitative methods by QSB	1	2	2		Business Operations Research	1	2	2
	Project management	3		3		Project management 2	1	2	2
	Business Economics	2		2		Feasibility study	2		2
						English Language	2		2
Total Hours and Units		18	2	19	Total Hours and Units		18	4	19

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Operations&Production management	3		3		Quality management	3		3
	International business management	3		3		Knowledge management	3		3
	Managerial information Technology	3		3		Corporate Governance	2		2
	Risk management	2		2		Graduate Project	1		1
	Governmental contracts management	2		2		Negotiation management	2		2
	Research Methodologies Approaches	2		2		Investment portfolio management	3		3
						English Language	2		2
Total Hours and Units		15		15	Total Hours and Units		16		16

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Principles of public administration (1)	3		3		Principles of public administration (2)	3		3
	Principles of economics	3		3		Mathematics for administrators	3		3
	Principles of statics and their application	3		3		Principles of accounting	3		3
	Microsoft office (1)	1	2	3		Microsoft office	1	2	3
	Arabic language	2	2	2		Rights and freedoms	2		2
Total Hours and Units		12	4	17	Total Hours and Units		13	2	14

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Marketing management	3		3		Public relations	3		3
	Human resources management	3		3		Government accounting	2	2	3
	Managerial law	2		3		Psychology administrative	2		2
	Intermediate accounting	2	2	3		The civil service legislation	2		2
	Development of organizational thought	3		3		Political systems	3		3
	Quantitative methods	2		2		Operations research	3		3
	Public administration spreadsheet by Microsoft Excel in English (1)	1	2	3		Administration spreadsheet by Microsoft Excel in English (2)	1	2	3
Total Hours and Units		16	4	20	Total Hours and Units		16	4	20

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Public Financial Management	3		3		The Organisation & Organizational Behaviour	3		3
	Local Management	3		3		General Policies	3		3
	Unified Accounting System	2	2	4		General Projects Management	2		2
	Government Contracts Management	3		2		Managerial information Technology	3	2	3
	Environment Management	2		2		Comparative Local Administration	3		3
	General Business ethics					Environment Management	2		2
	Administration spreadsheet by Microsoft Excel1	1	2	3		Administration spreadsheet by Microsoft Excel2	1	2	3
Total Hours and Units		16	4	17	Total Hours and Units		17	4	18

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Production & Operations Management	3		3		International Organization Management	3		3
	Comparative Public Administration	2		2		Administrative Development	3		3
	Management Development	3		3		General Policies	3		3
	Strategic Management	3		3		Research Project Graduation			2
	Method & Ethics of Scientific Research	2		2		Administration Spreadsheet (2) QSB	1	2	3
	Administration Spreadsheet (1) QSB	1	2	3					
Total Hours and Units		14	2	16	Total Hours and Units		13	2	16

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Principles of Economics	3		3		Principles of Economics	3		3
	Economic readings in English	2		2		Economic readings in English	2		2
	Human rights and Democracy	2		2		Principles of Accounting	3		3
	Arabic language	2		2		Principles of Statistics	3		3
	Principles of computer	1	2	2		Principles of Mathematise	2	2	2
	Principles of Management	3		3		Computer Office	1		2
Total Hours and Units		13	2	14	Total Hours and Units		14	2	15

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Microeconomics 1	3		3		Microeconomics 2	3		3
	Economics of Money	2		2		Economic statistics 2	2		2
	History of Economic events 1	2		2		History of Economic Thought 1	2		2
	Mathematics of Economics 1	2		2		Mathematics for Economics 2	3		3
	National Accounts 1	2		2		National Accounts 2	2		2
	Economics of Human Resources	2		2		Economic of Ban's	2		2
	Economic statistics 1	2		2		Computer programming (SSPS)	1	2	2
Total Hours and Units		15		14	Total Hours and Units		15	2	16

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Macroeconomics 1	3		3		Macroeconomics 2	3		3
	Mathematical Economics E1	3		3		Mathematical Economics E2	3		3
	Public Financial	3		3		Financial policies	2		2
	International Economics	2		2		International Economic policies	2		2
	industrial Economics	2		2		Industrial Economic policies	2		2
	Agricultural Economics	2		2		Agricultural Economic policies	2		2
	Environmental Economies	2		2		Knowledge Economies	2		2
	Economic development	3		3		Development policies	2		2
Total Hours and Units		20		20	Total Hours and Units		18		18

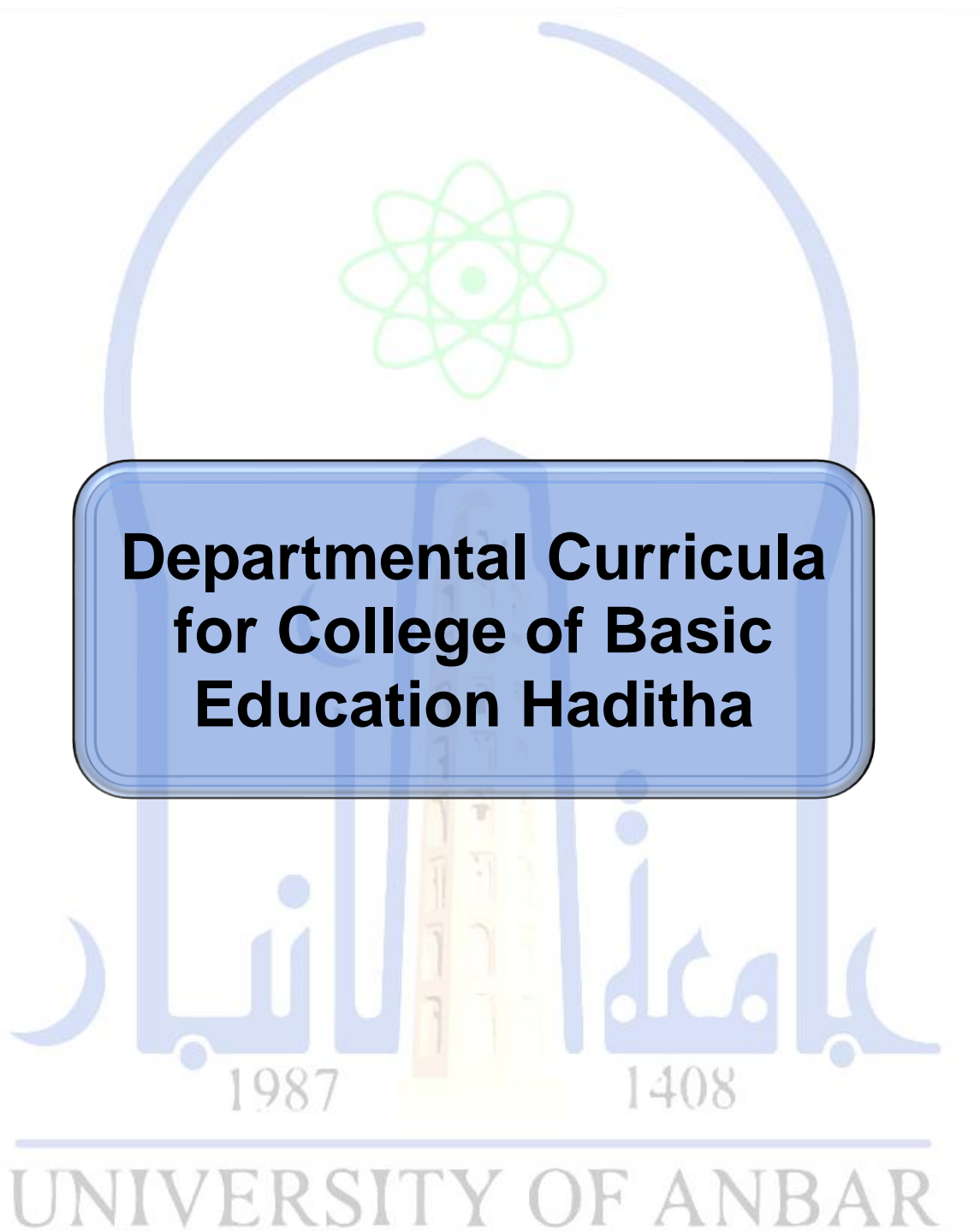
Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Monetary theory	3		3		Monetary theory	3		3
	Petroleum economics	2		2		Economics of Energy	2		2
	Economic feasibility studies	3		3		Evaluation of Economic projects	3		3
	Econometrics	3		3		Econometric E2	3		3
	Economic systems	3		3		Economic systems	2		2
	international financing	2		2		Computer Economic application (EV)	1		2
	Economic planning	2		2		Economic planning approaches	2		2
	Operations Research	2		2		Operations Research 2	2		2
	The methods & ethics	2		2		Research project	2		2
Total Hours and Units		22		22	Total Hours and Units		20		20

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Financial accounting 1			4		Financial accounting2			4
	Principles of business Administration			2		General mathematic1			3
	Principles of Economics			2		Principles of Statistics			3
	Computer science1			3		Computer science2			3
	Arabic language			2		Accounting reading &Correspondence in English			2
						Human right			2
Total Hours and Units				13	Total Hours and Units				17

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Intermediate accounting 1			4		Intermediate accounting 2			4
	Government accounting1			3		Government accounting2			3
	Accounting in English language 1			3		Accounting in English language 2			3
	Marketing & Trade E			3		Accounting for non-profit organization			3
	Business Law			2		Public Finance			2
	Accounting application in computer			3		Accounting operation research in English language			3
	General mathematic2			2					
Total Hours and Units				20	Total Hours and Units				18

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Cost Accounting 1			4		Cost Accounting 2			4
	Corporate Accounting			4		Advanced Financial Accounting			4
	Uniform Accounting System 1			3		Uniform Accounting System 2			3
	Tax Accounting			3		Natural Resource Accounting			3
	Financial statement analysis 1			3		Auditing & control			3
	Accounting for Financial enterprises			3		Accounting Training			2
Total Hours and Units				20	Total Hours and Units				19

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Advanced Cost Accounting in English1			4		Advanced Cost Accounting in English 2			4
	Specialized System Accounting			4		International Financial Reporting standards			2
	International Auditing			2		Accounting Theory			3
	Managerial Accounting in English1			4		Managerial Accounting in English2			4
	International Accounting			2		Accounting information system			3
	Methodology & Ethics of scientific			2		Graduation Research			1
Total Hours and Units				18	Total Hours and Units				17



**Departmental Curricula
for College of Basic
Education Haditha**

1987 1408
UNIVERSITY OF ANBAR

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Arabic grammar	3		3	Specialty	Arabic grammar	3		3
	Selected books of language and literature	2		2		Selected books of language and literature	2		2
	Pre-Islamic literature	2		2		Pre-Islamic literature	2		2
Assistant	human rights	1		1	Assistant	The Arabic dictionary	2		2
	Islamic education	2		2		Prophetic Hadith	2		2
	Library and Research Methods	3		3		Developing psychology	3		3
Educational	Basic education	2		2	Assistant	English language	2		2
	General Psychology	3		3		Computer science	1	0.5	1.5
						Islamic education	2		2
					Educational	basics education	3		3
Total Hours and Units		18		18	Total Hours and Units		22	0.5	22.5

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Arabic grammar	3		3	Specialty	Arabic grammar	3		3
	Morphology	2		2		Omawi Literature	2		2
	Islamic Literature	2		2		Phonology	2		2
Assistant	Rhetoric	2		2	Assistant	Morphology	2		2
	Computer science	1	0.5	1.5		Rhetoric	2		2
	English Language	2		2		Prosody	2		2
Educational	Prosody	2		2	Educational	Democracy	1		1
	Performance Improvement	2		2		Educational Guidance	2		2
	Psychology	2		2		Health & Environment	2		2
	Psychological Health	3		3		Educational Statistics	3		3
Total Hours and Units		21	0.5	21.5	Total Hours and Units		21		21

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Arabic grammar	3		3	Specialty	Arabic grammar	3		3
	Andalusia Literature	3		3		Later Ages	3		3
	Abbasi Literature	2		2		Abbasi Literature	2		2
Educational	Ancient Critics	2		2	Assistant	Qur'anic Elucidation	2		2
	Philology	2		2		Computer science	2		2
	Techniques	2		2		English language	2		2
	Methods of Research	3		3		Measurement and Evaluation	2		2
					Educational	General teaching methods	2		2
						Scientific Education (watching)	3		3
0.5Total Hours and Units						Total Hours and Units			
		17		17					

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Arabic grammar	3		3	Specialty	Graduation Research	3		3
	Modern Literature Criticism	3		3	Educational	Practical Application	12		12
	Modern Literature	3		3					
	Children's Literature	3		3					
Assistant	Computer science	1	0.5	1.5					
Educational	Management & Supervision Educational	2		2					
	Curriculum&textbooks	2		2					
Total Hours and Units					Total Hours and Units				
		17	0.5	17.5			15		15

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	General geography	2		2	Specialty	Science of maps	2		2
	The ancient history of Iraq	3		3		History of the ancient Near East (Egypt & Levant)	2		2
	History of the Arabs before Islam	2		2		History of the Europe in the Middle Ages	2		2
Assistant	Islamic education	2		2	Assistant	Historical research method	3		3
	Arabic language	2		2		English language	2		2
	Human rights	2		2		Islamic education	2		2
Educational	General psychology	3		3	Educational	Computer science	2		2
	Basic education	3		3		Developmental psychology	3		3
					Foundation of education		3		3
Total Hours and Units		18		18	Total Hours and Units		23		23

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Geography of continents (Old & new world)	2		2	Specialty	Geography of continents (New world)	2		2
	Modern History of the Arabian Gulf	2		2		Modern History of Iraq	2		2
	History of the modern Arab world	3		3		History of Europe (19 th century)	2		2
	History of Europe in the Renaissance	2		2		History of the Umayyad state	2		2
	Modern third world history	2		2		Contemporary Third World History	2		2
	Rashidi era	2		2		Democracy	2		2
	History of the Islamic Maghreb	2		2		Assistant	Environmental and health education	2	
Assistant	Arabic language	2		2	English language		2		2
	Computer science	2		2	Educational	Statistics	2		2
Educational	Educational psychology	3		3		Educational guidance	2		2
	Psychological health	2		2					
Total Hours and Units		24		24	Total Hours and Units		20		20

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	History of Andalusia	2		2	Specialty	Geography of Iraq	2		2
	Abbasid state H. (132 AH-334 AH)	2		2		Abbasid state H. (334 AH-656 AH)	2		2
	Geography of the Arab world	2		2		Contemporary History of Iraq	2		2
	Contemporary Arab H. World	2		2		Contemporary History of Turkey	2		2
	philosophy of history	2		2		Contemporary world history	2		2
	Contemporary History of Iran	2		2		History of Islamic (Islamic Orient)	2		2
	European History	2		2		Assistant	Computer science	2	
History of Europe (20th Century)	2		2	Measurement & Evaluation	2			2	
Assistant	Arabia language	2		2	Educational	General teaching methods	2		2
Educational	educational technologies	2		2		Scientific Education (Viewing)			2
	Research Methods	3		3					
Total Hours and Units		23		23	Total Hours and Units		18		20

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Graduation Research	3		3	Specialty	Graduation research			3
	Islamic civilization & systems	3		3	Educational	(Application)	12		12
	Contemporary Arab problems	2		2					
	History of the USA	2		2					
	Iraq's social history	2		2					
	Geopolitics	2		2					
Assistant	Computer sciences	2		2					
	Arabic language	2		2					
Educational	Curriculum & textbooks	2		2					
	Educational Administration & Supervision	2		2					
Total Hours and Units		22		22	Total Hours and Units		12		15

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Zoology	2	2	3	Specialty	General Physics	2	2	3
	Mathematics	2		2		Botany	2	2	3
	General chemistry	2	2	3		Human biology	1		1
	Agriculture	2	2	3		Geology	1	2	2
	Laboratory safety	1		1		Islamic 2	2		2
Assistant	Human rights	1		1	Assistant	Computer	1	1	1.5
	Islamic 1	2		2		Arabic language	2		2
Educational	General psychology	3		3	Educational	English language	2		2
	The basic education	2		2		Origins of education	3		3
						Developing psychology	3		3
Total Hours and Units		17	6	20	Total Hours and Units		19	7	21.5

Second Year/Biology									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Cytology	2	2	4	Specialty	Histology	2	2	3
	Microbiology	2	2	4		A vertebrate	2	2	3
	Virology	2		2		Basic of organic chemistry	2	2	3
	Environment & Pollution	2	2	4		Embryology	2		2
Assistant	Arabic language	2		2	Assistant	Environment & Health	2		2
	English language	2		2		Democracy	1		1
	Computer science	1	1	2	Educational	Educational statistics	2		2
Educational	Educational Psychology	3		3		Educational counseling	3		3
	Mental health	2		2					
Total Hours and Units		18	7	25	Total Hours and Units		16	6	19

Third Year/Biology									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Plant physiology	2	2	3	Specialty	Animal Physiology	2	2	3
	Parasitology	2	2	3		Immunology	2	2	3
	Basics of biochemistry	2		2		Entomology	2	2	3
	Algae and Fungi	1	2	2	Assistant	Animal production	1	2	2
	Plant production	1	2	2		Computer science	1	1	1.5
	Taxonomy	2		2		English language	2		2
Assistant	Research methods	3		3	Arabic language	2		2	
Educational	Educational techniques	2		2	Educational	Measurement & Evaluation	2		2
						General teaching methods	2		2
						Scientific education (viewing)	2		2
Total Hours and Units		15	8	19	Total Hours and Units		18	9	22.5

Fourth Year/ Biology									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Sera & Vaccines	2		2	Specialty	Research project	3		3
	Genetics	2	2	3	Educational	Practical application		12	12
	Food Industry	1	2	2					
Assistant	Computer science	1	1	1.5					
	Arabic language	2		2					
	English language	2		2					
Educational	Management & Supervision	2		2					
	Curriculum & textbooks	2		2					
	Teaching methods	2		2					
Total Hours and Units		16	5	16	Total Hours and Units		3	12	15

Second Year/ physics									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Wave motion & Sound	2	2	3	Specialty	Optics	2	2	3
	Thermodynamics	2	2	3		Mechanic	2	2	3
	Differential&Integral	2		2		linear algebra	2		2
	Heat & Properties of Materials	2		2		Electrical 1	2		2
	Environment & Pollution	2	2	3	Assistant	Environment & health	2		2
Assistant	Arabic language	2		2		Democracy	1		1
	English language	2		2	Educational	Educational statistics	2		2
	Computer science	1	1	1.5		Educational counseling	3		3
Educational	Educational Psychology	3		3					
	Mental health	2		2					
Total Hours and Units		21	7	23.5	Total Hours and Units		18	4	18

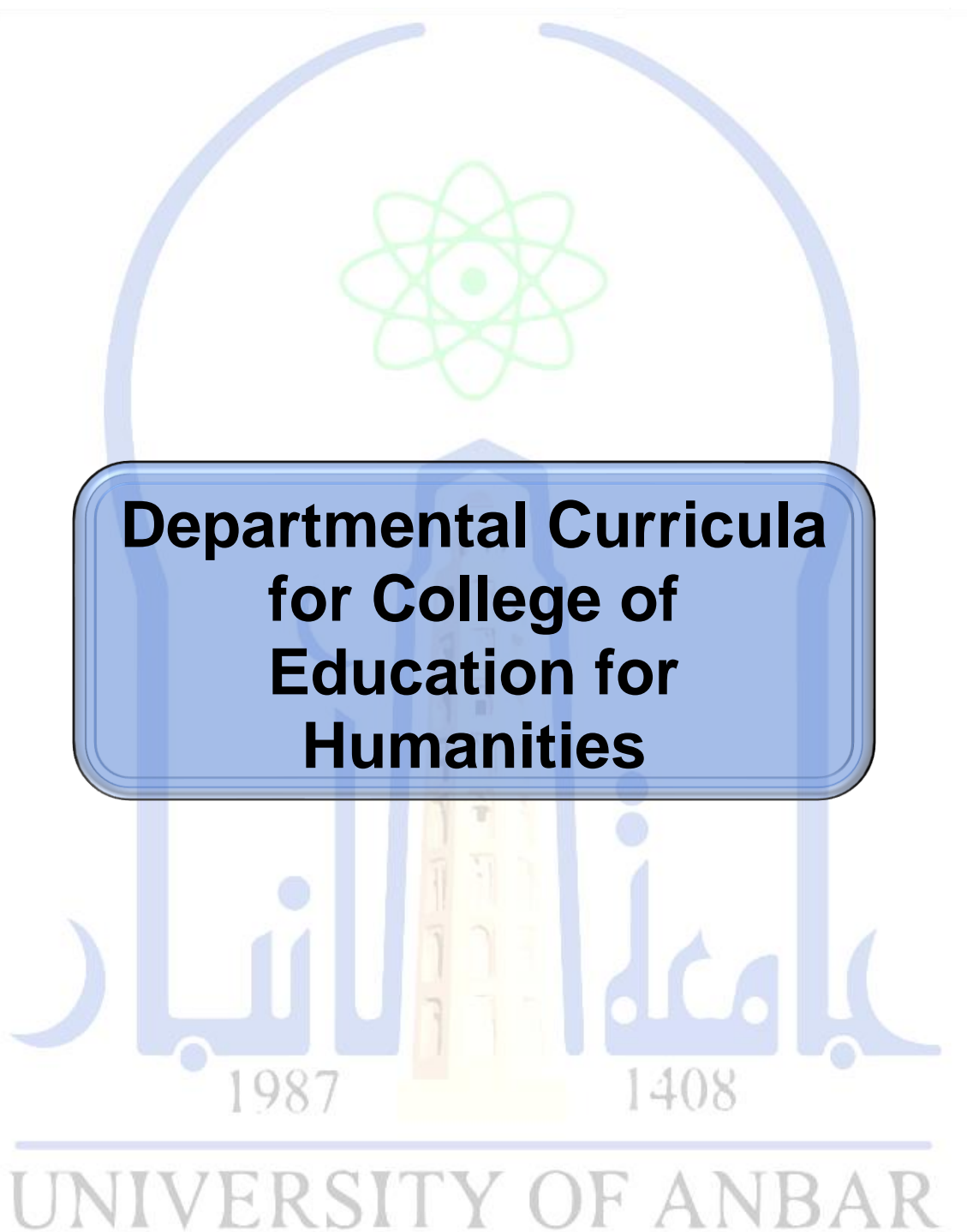
Third Year/Physics									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Electrical 2	2	2	3	Specialty	Solid physics	2		2
	Atomic physics	2	2	3		E. Physics	2	2	3
	Quantum physics	2		2		Radiation activity	2	2	3
	Physical chemistry	2		2		Astronomy	2		2
	Relativistic physics	2		2		Assistant	Computer science	1	1
Educational	Research methods	3		3	English language		2		2
	Educational techniques	2		2	Arabic language	2		2	
					Educational	Measurement & Evaluation	2		2
						General teaching methods	2		2
						Scientific education (Viewing)	2		2
Total Hours and Units		15	4	17	Total Hours and Units		19	5	21.5

Fourth Year/physics										
Semester I					Semester II					
Category	Subject	Hours		Units	Category	Subject	Hours		Units	
		Theoretical	Practical				Theoretical	Practical		
Specialty	Laser	2	2	3	Specialty	Research project	3		3	
	Electromagnetic	2		2	Educational	Practical application		12	12	
	Food Industry	1	2	2						
Assistant	Computer	1	1	1.5						
	Arabic language	2		2						
	English language	2		2						
Educational	Management & Supervision	2		2						
	Curriculum & textbooks	2		2						
	Teaching Methods	2		2						
Total Hours and Units		16		18.5	Total Hours and Units			3	12	15

Second Year/ chemistry										
Semester I					Semester II					
Category	Subject	Hours		Units	Category	Subject	Hours		Units	
		Theoretical	Practical				Theoretical	Practical		
Specialty	Differential & Integral	2		2	Specialty	Soil chemistry	2		2	
	Analysis chemistry1	2	2	3		Analysis chemistry2	2	2	3	
	Inorganic chemistry1	2	2	3		Inorganic chemistry2	2	2	3	
	Environment&Pollution	2	2	3		Physical chemistry	2	2	3	
Assistant	Arabic language	2		2	Assistant	Environment & health	2		2	
	English language	2		2		Democracy	1		1	
	Computer science	1	1	1.5	Educational	Educational statistics	3		3	
Educational psychology	3		3	Educational counseling		2		2		
	Mental health	2		2						
Total Hours and Units		18	7	21.5	Total Hours and Units			16	6	19

Third Year/ chemistry									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Organic chemistry1	2	2	3	Specialty	Organic chemistry2	2	2	3
	Biochemistry1	2	2	3		Biochemistry2	2	2	3
	Industrial chemistry1	2	2	3		Industrial chemistry2	2	2	3
	Coordinative chemistry	1	2	2	Assistant	Animals' production	1	2	2
	Organic diagnosis	2	2	3		Computer	1	1	1.5
	Plant production	1	2	2		English language	2		2
Educational	Research methods	3		3	Educational	Arabic language	2		2
	Educational techniques	2		2		Measurement & Evaluation	2		2
							General teaching methods	2	
						Scientific education-viewing		3	2
Total Hours and Units		15	12	21	Total Hours and Units		16	12	22.5

Fourth Year/ chemistry									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Automatic analysis	2	2	3	Specialty	Research project	3		3
	Clinical chemistry	2		2	Educational	Practical application		12	12
	Food Industry	1	2	2					
Assistant	Computer science	1	1	1.5					
	Arabic language	2		2					
	English language4	2		2					
Educational	Management &Supervision	2		2					
	Curriculum&textbooks	2		2					
	Teaching methods	2		2					
Total Hours and Units		16	5	16.5	Total Hours and Units		3	12	15



**Departmental Curricula
for College of
Education for
Humanities**

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First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Grammar 1	3		3	Specialty	Grammar 2	3		3
	Morphology 1	3		3		Morphology 2	3		3
	History of Arabic literature before Islam	3		3		Texts from pre-Islamic Arabic literature	3		3
	Rhetoric 1	3		3		Rhetoric 2	3		3
	Language skills (expression)	2		2		Language skills (composition)	3		3
General	English language	2		2	General	democracy	1		1
	Human rights	1		1	Educational	Developmental psychology	2		2
Educational	Educational psychology	2		2					
Assistant	The sciences of the Qur'an & the Prophet's hadith	3		3					
Total Hours and Units		20		20	Total Hours and Units		20		20

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Grammar 3	3		3	Specialty	Grammar 4	3		3
	Morphology 3	3		3		Morphology 4	3		3
	Islamic literature 1	3		3		Islamic literature 2	3		3
	Rhetoric 3	3		3		Rhetoric 4	3		3
	Arabic dictionary	2		2		Phonetics	2		2
	Performances & rhyme 1	3		3		Performances & rhyme 2	3		3
	Ancient texts	2		2		English language	2		2
Educational	Foundations of education	2		2	General	Computer science	1	2	2
					Educational	Educational guidance	2		2
Total Hours and Units		20		20	Total Hours and Units		21	2	22

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Grammar 5	3		3	Specialty	Grammar 6	3		3
	Linguistics 1	3		3		Linguistics 2	3		3
	Analysis of the Qur'anic text 1	2		2		Analysis of the Qur'anic text 2	2		2
	Abbasid literature1	3		3		Abbasid literature2	3		3
	Andalusian literature 1	2		2		Andalusian literature 2	2		2
	Ancient Arabic criticism 1	3		3		Ancient Arabic Criticism 1/2	3		3
	Curricula Research &Library	2		2		Achieving Texts	2		2
Educational	Teaching curriculum	1	2	2	Educational	Teaching methods	1	2	2
		General			English language		2		2
Total Hours and Units		19	2	20	Total Hours and Units		21	2	22

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Grammar 7	4		4	Specialty	Facilitate Grammar	2		2
	Philology 1	3		3		Philology 2	3		3
	Modern Arabic literature 1	3		3		Modern Arabic literature 2	3		3
	Modern Arabic criticism 1	3		3		Modern Arabic criticism 2	3		3
	Artistic prose	3		3		Semantics	2		2
Educational	Measurement & Evaluation	2		2	Comparative literature	3		3	
General	English language	2		2	Assistant	Research project		2	1
		Educational			Educational administration		2		2
					Viewing&Application		2	2	3
Total Hours and Units		20		20	Total Hours and Units		20	4	22

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Grammar 1	3		2		Grammar 2	3		3
	Phonetics1	2	1	2		Phonetics 2	2	1	3
	Introduction to literature (Poetry & Prose)	3		2		Introduction to literature (Drama)	2		3
	Listening & Speaking1	2		2		Composition writing	2		3
	Human rights	2		2		Reading	2		3
	Arabic language	2		3		Computer science	2	1	4
	Fundamentals of education	2		4		Educational Psychology	2		3
Total Hours and Units		17		17	Total Hours and Units		17		22

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Morphology	3		3		Grammar	3		2
	English Phonology1	2	1	3		English Phonology2	2	1	2
	One Act play	2		3		Elizabethan Drama	2		2
	Short story	2		2		Story	2		2
	16 th C. Poetry	2		2		17 th C. Poetry	2		2
	Advanced reading	2		3		An Introduction to Academic Writing	2		3
	Adults' education	2		4		An Introduction to Teaching Methods	3		4
	Listening & Speaking2	2		3					
Total Hours and Units		18		23	Total Hours and Units		17		17

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Grammar 1	3		3		Grammar 2	3		2
	Linguistics 1	3		3		Linguistics 2	3		2
	Victorian Novel 1	3		3		Victorian Novel 2	3		2
	Renaissance Drama	3		3		Shakespearean Drama	3		2
	Romantic Poetry	2		2		Victorian Poetry	2		2
	Pedagogy & Curriculum Innovation	3		4		Academic Writing & Research Paper	2		3
	Listening & Speaking 3	2		3		Counselling & Psychological Health	2		4
Total Hours and Units		19		21	Total Hours and Units		18		17

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Grammar 1	3		3		Grammar 2	3		2
	Linguistics 1	3		3		Linguistics 2	3		2
	Modern English Novel	3		3		Modern American Novel	3		2
	Modern English Drama	3		3		Modern American Drama	3		2
	Modern Poetry 1	2		2		Modern Poetry 2	2		2
	Test Design & Assessment	2		4		Practicum and EFL classroom practice	3		4
	Advanced Listening & Speaking	2		3		Graduation Research			2
	Optional (Translation)	2		2					
Total Hours and Units		20		23	Total Hours and Units		17		16

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Weather G.	2	1	3	Specialty	Climatology	2	1	3
	Africa's Geography	2		2		Australia's Geography	2		2
	Maps	2	1	3		Remote Sensing	2	1	3
	Basics of geomorphology	2	1	3		geomorphology	2	1	3
General	English language	2		2	General	Dynamic geography	2		2
	Arabic language	2		2		Dry regions	2		2
	Human rights	2		2	Educational	History of the Ancient Arab World	2		2
	Computer science	1	2	2		General Psychology	2		2
Educational	Foundations of education	2		2					
Total Hours and Units		17	6	21	Total Hours and Units		16	3	19

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Applied Climatology	2	2	3	Specialty	Geography of Asia	2		2
	Geography of Europe	2		2		geomorphology	2	2	3
	Remote Sensing	2	2	3		Geography of Oil&Energy	2		2
	Population Geography	3		3		Water resources	2	2	3
	Basics of geomorphology	2	2	3		Geography of development&planning	2		2
	Thematic maps	2	2	3		Rural geography	2		2
General	Islamic State H.	2		2	General	English language	2		2
Educational	Developmental psychology	2		2		Computer science	1	2	2
						Freedom&Democracy	2		2
					Educational	Educational administration & Secondary education	2		2
Total Hours and Units		17	8	21					

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Agriculture G.	2		2	Specialty	Industry G.	3		3
	Geography of cities	2		2		Soil geography	2	2	3
	Geo statistics	2		2		South America	3		3
	North America	2		2		Climatology	2	2	3
	Geography of tourism	2		2		geography of natural resources	2	2	3
General	Modern Arab world H.	2		2	Geographical search methods	2		2	
	English language	2		2	Urban studies	2		2	
Educational	Teaching methods	2		2	Educational guidance	2		2	
Total Hours and Units		16		16	Total Hours and Units		18	6	21

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Geography of The Arab World	2		2	Specialty	Geographical thought	2		2
	Transportation Geography	2		2		Environment & pollution	2		2
	Geopolitics	2		2		Geography services	2		2
	Geography of Iraq	2		2		Seas & Oceans	2		2
	GIS	1	2	3	General	English language	2		2
	Social geography	2		2		Research project		2	1
Educational	Measurement & evaluation	2		2	Educational	Teaching Apps	2		1
	Practical View		2	1					
Total Hours and Units		14	4	16	Total Hours and Units		10	4	12

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Ancient history of Iraq	3		3	Specialty	Ancient history of Iraq	3		3
	History of the Arabs pre-Islam	3		3		history of the Arabs pre-Islam	3		3
	the era H. of the message	3		3		Europe H. in the Middle Ages	3		3
	Europe H. in the Middle Ages	3		3		Rashidun Caliphate H.	3		3
	Historical research method	2		2		Historical research method	2		2
General	Human rights	2		2	General	Freedom&Democracy	2		2
	Arabic Language	2		2		Computer science	1	1	2
	English language	2		2	Assistant	General geography	2		2
Educational	Foundations of education	2		2	Educational	The psychology	2		2
Total Hours and Units		22		22	Total Hours and Units		21	1	22

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Ancient history of the Arab countries	3		3	Specialty	Ancient history of the Arab countries	3		3
	Andalusia H.	2		2		Andalusia H.	2		2
	Modern history of the Arab countries	2		2		Modern history of the Arab countries	2		2
	Europe H. in the Renaissance	2		2		Europe H. in the Renaissance	2		2
	History of the Arab state in the Umayyad period	2		2		History of the Arab state in the Umayyad period	2		2
	History of Ancient world civilization	2		2		History of Ancient world civilization	2		2
Assistant	Arab world G.	2		2	General	English language	2		2
Educational	Developing psychology	2		2	Educational	Educational Administration & Secondary Education	2		2
Total Hours and Units		17		17	Total Hours and Units		17		17

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	History of the Arab Islamic State in the Abbasid Era	3		3	Specialty	History of the Arab Islamic State in the Abbasid Era	3		3
	Arab-Islamic civilization H.	3		3		Arab-Islamic civilization H.	3		3
	Modern History of Iraq	2		2		Modern History of Iraq	2		2
	Modernization in Islamic countries	2		2		Modernization in Islamic countries	2		2
	History of 19 th century Europe	2		2		History of 19 th century Europe	2		2
	History of Asia	2		2		History of Asia	2		2
Assistant	Philosophy of history	2		2	Assistant	Philosophy of history	2		2
	Geography of Iraq	2		2	general	English language	2		2
Educational	Teaching curricula & methods	2		2	Educational	Educational counselling & Mental health	2		2
Total Hours and Units		20		20	Total Hours and Units		20		20

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Islamic Emirates History	2		2	Specialty	Islamic Emirates History	2		2
	Contemporary H. of Arab Countries	3		3		Contemporary H. of Arab Countries	3		3
	Contemporary world history	3		3		Contemporary world history	3		3
	Americas History	2		2		Americas History	2		2
	Contemporary History of Iraq	3		3		Contemporary History of Iraq	3		3
General	English language	2		2		Graduation project		2	2
Educational	Measurement & Evaluation	2		2	Educational	Application		2	2
	Viewing	2		2					
Total Hours and Units		19		19	Total Hours and Units		13	4	17

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Studies in Quran sciences	2		2	Specialty	Studies in Quran sciences	2		2
	Recitation & Memorization	2	1	3		Recitation & Memorization	2	1	3
	Jurisprudence of worship	3		3		Jurisprudence of worship	3		3
	Hadith sciences	2		2		Hadith sciences	2		2
	Studies sharia	2		2		Logic principles	2		2
Assistant	Grammar	3		3	Assistant	Grammar	3		3
General	English language	2		2	General	Computer	1	1	2
Educational	Foundations of education	2		2		Democracy & Human rights	2		2
					Educational	General psychology	2		2
Total Hours and Units		18	1	19	Total Hours and Units		19	2	21

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Recitation & Memorization	2	1	3	Specialty	Recitation & Memorization	2	1	3
	Jurisprudence of personal status	3		3		Islamic belief	3		3
	Interpretation science	2		2		Interpretation science	2		2
	Biography of the Prophet	2		2		Jurisprudence of personal status & inheritance	3		3
General	English language	2		2	Islamic thought	2		2	
Assistant	Rhetoric	2		2	Assistant	Speakers' curriculum	3		3
	Grammar	3		3		Grammar	3		3
Educational	Developing psychology	2		2	Educational	Secondary education & Educational administration	2		2
Total Hours and Units		18	1	19	Total Hours and Units		20	1	21

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Recitation & Memorization	2	1	3	Specialty	Interpretation & Memorization	2	1	3
	Usul Fiqh	2		2		Usul Fiqh	2		2
	Interpretation of the provisions	3		3		jurisprudence of transactions	2		2
	Jurisprudence of transactions	2		2		Analytical talk	3		3
	Islamic belief	2		2	Assistant	Rhetoric	2		2
Assistant	Grammar	2		2		Library & search project	2	1	3
Educational	Curricula & methods of teaching Islamic education	1	1	2	Educational	Psychological counselling & Mental health	2		2
Total Hours and Units		14	2	16	Total Hours and Units		15	2	17

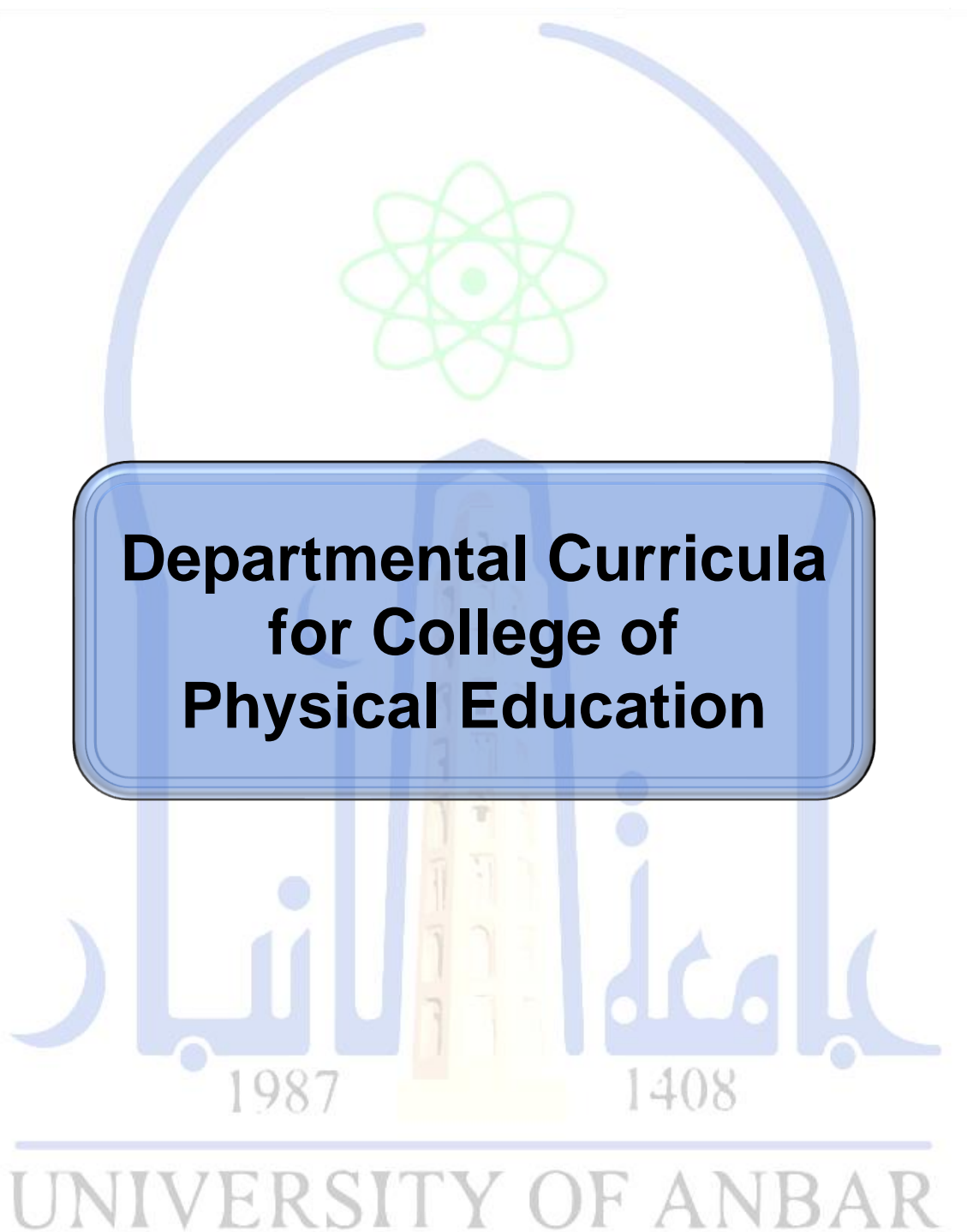
Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Memorizing & Reciting	2	1	3	Specialty	Memorizing & Reciting	1	1	2
	Quranic text analysis	2		2		Interpreters' Methods	3		3
	Usul Fiqh	2		2		Usul Fiqh	2		2
	Inimitability in Quran	2		2		Jurisprudence of felonies	2		2
	Conversations of judgments	2		2	Assistant	Graduation research	2	1	3
	Jurisprudence of felonies	2		2	Educational	Classroom observation and practical application	2	1	3
Assistant	Quranic Grammar	2		2					
Educational	Measurement & Evaluation	2		2					
Total Hours and Units		16	1	17	Total Hours and Units		12	3	15

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	General Psychology1	2	1	3	Specialty	General Psychology2	2	1	3
	Foundations of education1	2	1	3		Foundations of education 2	2	1	3
	Individual differences	2	1	3		Environmental education	2		2
General	Computer science	2	1	2	General	Introduction to Social Psychology	2	1	3
	Human rights	2		2		General Arabic language	2		2
	English language	2		2		Freedom&Democracy	2		2
Total Hours and Units		12	4	15	Total Hours and Units		15	3	15

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Educational Psychology 1	2	1	3	Specialty	Educational Planning	2		2
	Developmental Psychology/1	2	1	3		Continues learning	2		2
	Curriculum & textbook	2	1	3		Educational Psychology 2	2	1	3
	Social Psychology	2		2		Developmental Psychology 1	2	1	3
Assistant	Descriptive statistics1	2	1	3	Assistant	Descriptive statistics 2	2	1	3
General	English Language	2		2	General	General Arabic Language	2		2
	Computer science	2	1	3					
Total Hours and Units		19	5	19	Total Hours and Units		15	3	15

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Personality Psychology 1	2	1	3	Specialty	Educational techniques & Educational technology 2	2	1	3
	Experimental Psychology	2	1	3		Cognitive Psychology	2		2
	Physiological Psychology	2	1	3		Personality Psychology 2	2	1	3
	General teaching methods1	2	1	3		General teaching methods 2	2	1	3
	Educational techniques & Educational technology 1	2	1	3		Psychological counselling & Educational guidance 2	2		2
	Comparative education	2		2		Research Methodology	2	1	3
	Psychological counselling & Educational guidance1	2		2	General	English language	2		2
Assistant	Inferential statistics1	2	1	3	Assistant	Inferential statistics 2	2	1	3
Total Hours and Units		16	6	22	Total Hours and Units		16	5	21

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Practical Education	1	3	3	Specialty	Economics of Education	2		2
	Measurement & Evaluation1	2	1	3		Measurement & Evaluation 2	2	1	3
	Mental health	2		2		Educational Philosophy	2	1	3
	Educational administration	2	1	3		Practical education	1	3	3
	Special education	2		2		Research project	2		2
	Teaching thinking	2		2		General	English language	2	
	Behavioural modification	2		2					
Total Hours and Units		13	5	17	Total Hours and Units		11	5	15



**Departmental Curricula
for College of
Physical Education**

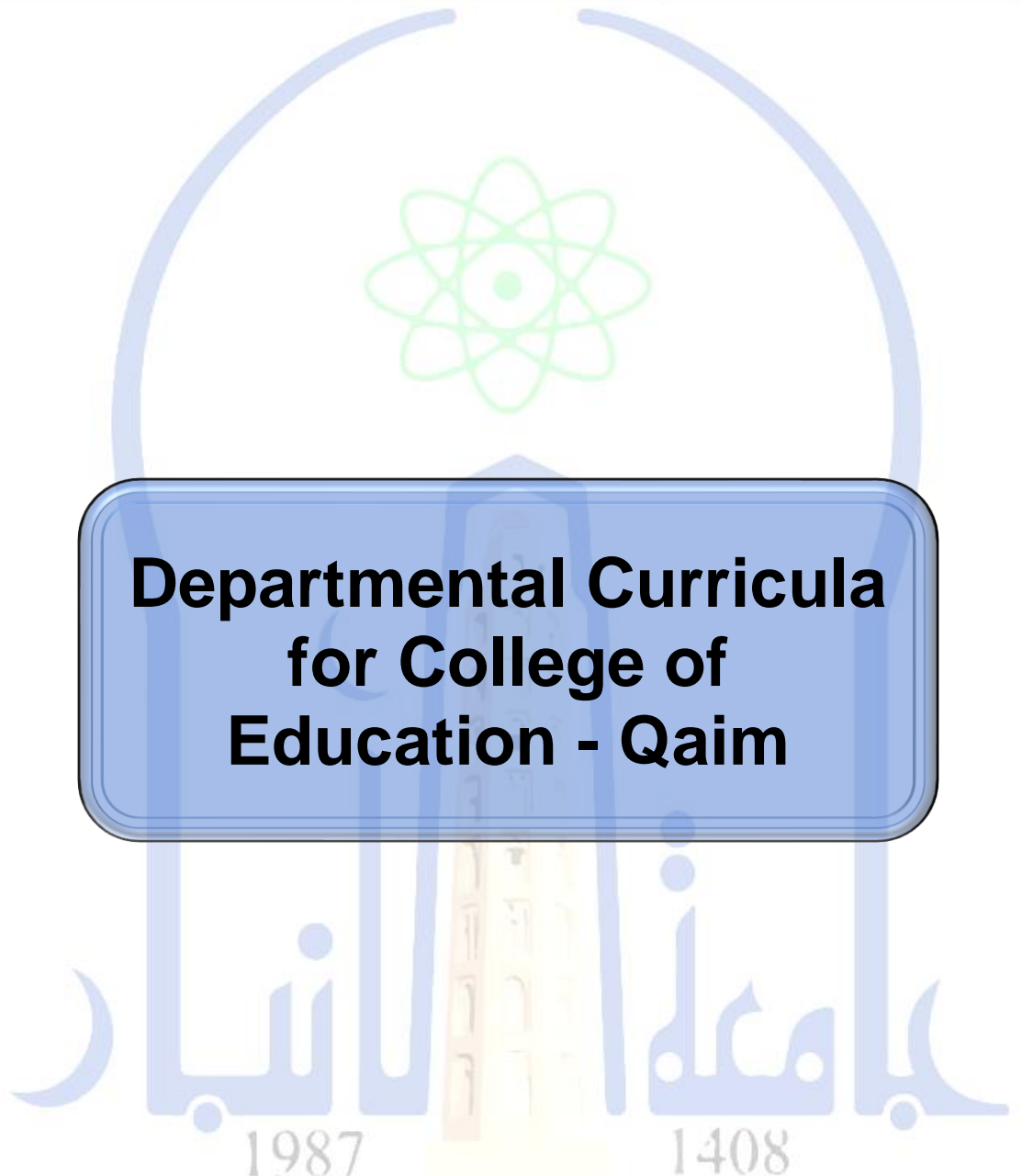
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First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Track and Field	1	3	2		Computer science	1	2	2
	Anatomy	2		2		Therapeutics	2		2
	Arabic Language	2		2		Sports Aid	2		2
	English Language	2		2		Human Rights	2		2
	Basketball	1	4	4		Swimming		4	2
	Scouting	1	4	4		Football	1	4	4
	History of Physical Education	2		2		Fitness - female students		4	2
						Weightlifting - male Students			
Total Hours and Units		11	11	18	Total Hours and Units		8	14	16

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Assessments	2		2		English Language	2		2
	Sport Training	1	4	4		Biomechanics	3		3
	Handball		4	2		Computer	1	2	2
	Gymnastics	1	4	4		Volleyball	1	4	4
	Track and Field	1	2	2		Basketball	1	3	4
	Methodology	1	4	3		Sports Statistics	4		4
						Democracy & Liberty	2		2
						Fitness - female students		4	2
						Boxing – male Students			
Total Hours and Units		6	18	17	Total Hours and Units		14	13	23

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Scientific Research	4		4		Methodology	1	2	2
	English Language	2		2		Physiology	4		4
	Physical Injuries	2		2		Motor Learning	4		4
	Handball	1	2	2		wrestling – male students Rhythmic gymnastics - female students		4	2
	Fencing	1	2	2		Gymnastics		4	2
	Ground Tennis	1	2	2		Track and Field	1	4	4
	Volleyball	1	4	4		Football – male students Futsal football - female students	1	2	2
Total Hours and Units		12	10	18	Total Hours and Units		11	16	20

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Fundamentals of Education	2		2		Sports Psychology	4		4
	Sports Management	4		4		English Language	2		2
	Sport Training	4		4		Volleyball		4	2
	Basketball		4	2		Handball		4	2
	Track and Field		4	2		Research Project	1	2	2
	Football		4	2		Practicum		10	6
	Methods of Teaching	1	2	2					
Total Hours and Units		11	14	18	Total Hours and Units		7	20	18



**Departmental Curricula
for College of
Education - Qaim**

1987 1408
UNIVERSITY OF ANBAR

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Grammar 1	3		3	Specialty	Grammar 2	3	3	3
	Morphology 1	3		3		Morphology 2	3	3	3
	History of Arabic literature before Islam	3		3		Texts of Arabic literature before Islam	3	3	3
	Rhetoric 1	3		3		Rhetoric 2	3	3	3
	Language skills (Expression)	2		2		Language skills (Dictation and Composition)	3	3	3
General	Human Rights	1		1	General	Democracy	1	1	1
Assistant	The sciences of the Quran and the Prophets hadith	3		3		English language	2	2	2
Education	Foundations of education	2		2	Education	General psychology	2	2	2
Total Hours and Units		20		20	Total Hours and Units		20		20

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Grammar 3	3		3	Specialty	Grammar 4	3		3
	Morphology 3	3		3		Morphology 4	3		3
	Islamic literature1	3		3		Islamic literature2	3		3
	Rhetoric 3	2		2		Rhetoric 4	2		2
	Arabic dictionary	2		2		Phonetics	2		2
	Performances & Rhyme 1	3		3		Performances & Rhyme 2	3		3
	ancient texts	2		2		English language	2		2
Educational	Developmental psychology	2		2	General	Computer Science	1	2	2
						Educational	Educational guidance	2	
Total Hours and Units		20		20	Total Hours and Units		21	2	22

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Grammar 5	3		3	Specialty	Grammar 6	3		3
	Linguistics 1	3		3		Linguistics 2	3		3
	Quranic text analysis1	2		2		Quranic text analysis 2	2		2
	Abbasid literature 1	3		3		Abbasid literature2	3		3
	Andalusian literature1	2		2		Andalusian literature 2	2		2
	Ancient Arabic currency 1	3		3		Ancient Arabic currency 2	3		3
	Research Methodology&Library	2		2		Text realization	2		2
Educational	Teaching Curriculum	1	2	2	Educational	Teaching methods	1	2	2
General	English language	2		2					
Total Hours and Units		21	2	22	Total Hours and Units		19	2	20

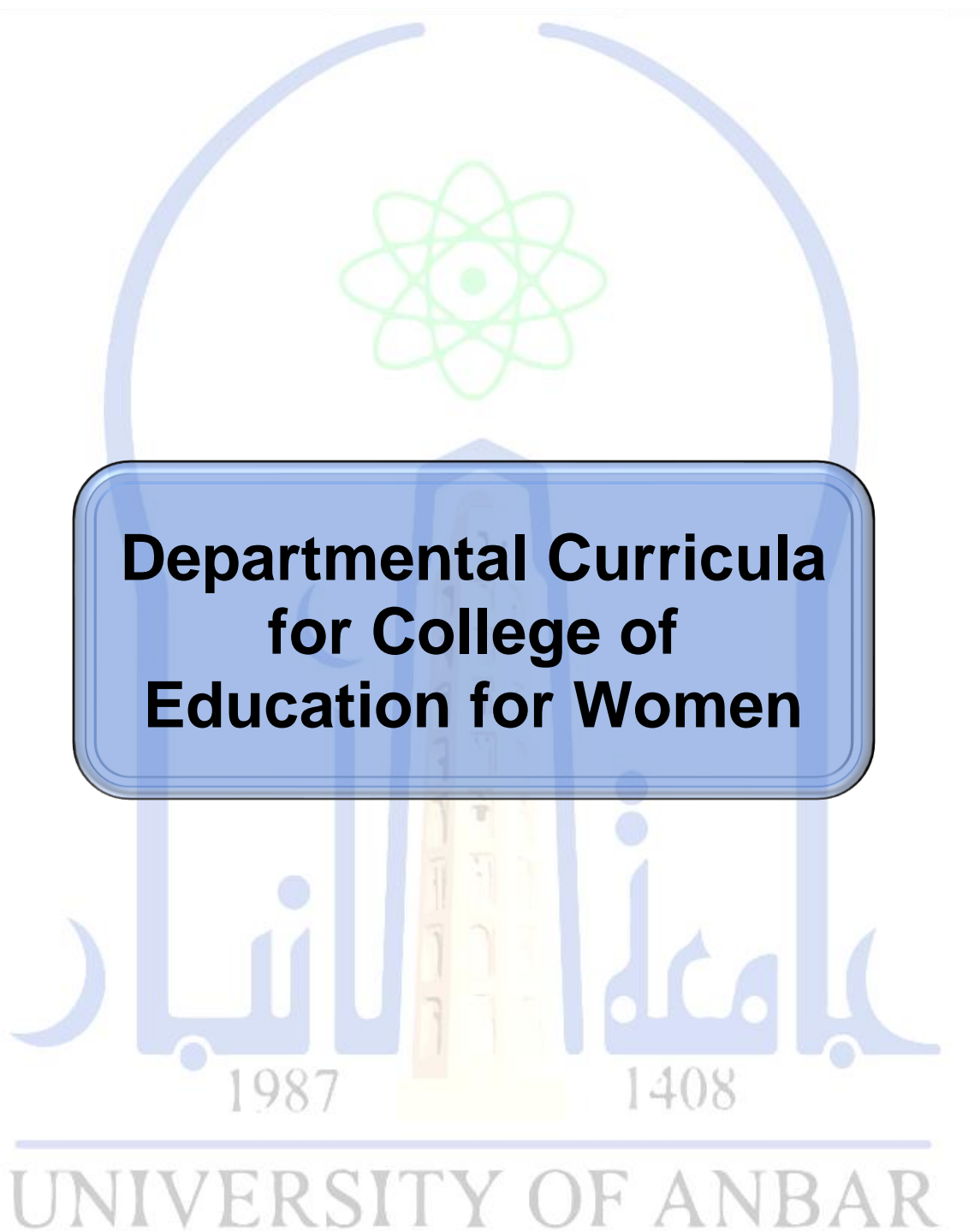
Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Grammar 7	4		4	Specialty	Facilitate Grammar	2		2
	Philology 1	3		3		Philology 2	3		3
	Modern Arabic literature 1	3		3		Modern Arabic literature 2	3		3
	Modern Arabic criticism 1	3		3		Modern Arabic criticism 2	3		3
	Artistic prose 1	3		3		Semantics	2		2
General	English language	2		2	Comparative literature	3		3	
Education	Measurement & Evaluation	2		2	Assistant	Research project		2	1
					Education	Educational administration	2		2
						Viewing&Application	2	2	3
Total Hours and Units		20		20	Total Hours and Units		20	4	22

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Studies in Quran sciences	2		2	Specialty	Studies in Quran sciences	2		3
	Recitation& Memorization	3	1	2		Recitation& Memorization	3		3
	Introduction to jurisprudence	3		3		Introduction to jurisprudence	3		3
	Hadith sciences	2		2		Hadith sciences	2		3
	Studies sharia	2		2		Logic principles	2		3
Assistant	Grammar& Morphology	3		3	Assistant	Grammar& Morphology	3		2
General	English language	2		2	General	Computer Science	1	1	2
Education	General psychology	2		2	Education	Foundations of education	2		2
Total Hours and Units		19	1	21	Total Hours and Units		19	2	21

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Studies in Quran sciences	3		3	Specialty	Studies in Quran sciences	3		3
	Recitation& Memorization	3		3		Recitation& Memorization	3		3
	The science of interpretation	3		3		The science of interpretation	3		3
	Biography of the Prophet	2		2		Biography of the Prophet	2		2
	Introduction to jurisprudence	2		2		Introduction to jurisprudence	2		2
Assistant	Grammar& Morphology	3		3	Assistant	Grammar& Morphology	3		3
Education	Developing psychology	2		2	Education	Educational management&secondary education	2		2
General	Rhetoric	2		2					
Total Hours and Units		20		20	Total Hours and Units		18		18

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Curricula of interpretation	3		3	Specialty	Curricula of interpretation	3		3
	Recitation & Memorization	3		3		Recitation & Memorization	3		3
	jurisprudence of transactions	2		2		jurisprudence of transactions	2		2
	Islamic belief	3		3		Inimitability in Quran	2		2
	Analytical talk	3		3		Analytical talk	3		3
Assistant	Grammar	2		2	Assistant	Grammar	2		2
General	Rhetoric	2		2	General	Principle of Scientific research	2		2
Educational	Curricula & Methods of teaching Islamic education	2		2	Educational	Psychological counselling & Mental health	2		2
Total Hours and Units		20		20	Total Hours and Units		19		20

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Interpretation methods	3		3	Specialty	Interpretation methods	3		3
	Memorization & Interpretation	2	1	3		Memorization & Interpretation	2	1	3
	Usul Fiqh	3		3		Comparative Religions science	3		3
	Islamic systems	3		3		criminal jurisprudence	2		2
	Methods of hadith scholars	3		3		Grammar	2		2
Assistant	criminal jurisprudence	2		2	Assistant	Graduation research	1	2	2
Educational	Measurement & Evaluation	2		2	Educational	Classroom observation and practical application	1	2	2
General	Grammar	2		2					
Total Hours and Units		20		21	Total Hours and Units		14	5	17



**Departmental Curricula
for College of
Education for Women**

1987 1408
UNIVERSITY OF ANBAR

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	zoology	2	2	3	Specialty	Botany	2	1	3
	Cytology1	1	2	2		Cytology2	1	2	2
General	Analytical chemistry	1	2	2	General	Organic chemistry	1	2	2
	Arabic language	2	-	2		English language	2	-	2
	Geology	2	-	2		Computer science	2	2	3
Educational	Human rights	1	-	1	Educational	Democracy	1	-	1
	Educational Psychology	2	-	2		Foundations of education	2	-	2
Total Hours and Units		11	6	14	Total Hours and Units		11	7	15

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Invertibrates1	2	2	3	Specialty	Invertibrates2	2	2	3
	Histology	2	2	3		Embryology	2	2	3
	Plant Anatomy	2	2	3		Biochemistry	2	2	3
	Phycology	2	2	3		Archegonia	2	2	3
Assistant	Scientific research methods	2	-	2	Assistant	Bio Statistics	2	2	3
Educational	Developmental Psychology	2	-	2	Educational	Educational administration	2	-	2
General	English Language	2	-	2					
Total Hours and Units		14	8	18	Total Hours and Units		12	10	17

UNIVERSITY OF ANBAR

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Entomology	2	2	3	Specialty	Applied Entomology	2	2	3
	Chordate	2	2	3		Mycology	2	2	3
	Genetics 1	2	2	3		Plant Taxonomy	2	2	3
	Microbiology	2	2	3		Biotechnology	2	2	3
	Plant Morphology	2	2	3		Animal Physiology	2	2	3
	Micro techniques	1	2	2		Genetics 2	2	2	3
Educational	Educational Counselling & psychological Health	2		2	Educational	Teaching Methods	2	-	2
					General	English Language	2	-	2
Total Hours and Units		13	12	19	Total Hours and Units		16	12	22

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Parasitology1	2	2	3	Specialty	Parasitology2	2	2	3
	Applied Bacteria	2	2	3		Environmental Pollution	2	2	3
	Plant Physiology	2	2	3		Immunology	2	2	3
	Ecology	2	2	3		General Health	2		2
General	English Language	2		2	Educational	School applications		4	2
Educational	teaching applications		4	2	Assistant	Optional	2		2
	Molecular biology	2	2	3		Measurement & Evaluation	2		2
	Metabolism	2	2	3					
Assistant	Graduation Research Project								3
Total Hours and Units		14	16	22	Total Hours and Units		12	10	20

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Analytical chemistry 1	2	3	3.5	Specialty	Analytical chemistry 1	2	3	3.5
	Organic chemistry1	2	3	3.5		Organic chemistry 1	2	3	3.5
	Inorganic Chemistry 1	2	-	2		Inorganic Chemistry 1	2	-	2
	Computer science	2	2	3		Biology	2	2	3
General	Arabic language	2	-	2	General	English language	2	-	1
	Human Rights	2	-	2		Mathematics	2	-	2
Educational	Educational Psychology	2	-	2	Educational	Foundation of education	2	-	2
Total Hours and Units		14	8	18	Total Hours and Units		14	8	17

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Inorganic chemistry	4	3	5.5	Specialty	Analytical chemistry	4	3	5.5
	Organic chemistry	4	3	5.5		Physical chemistry	4	3	5.5
	Physics	2		2		Mathematics	2		2
General	Scientific Research Methods	2		2	General	Freedoms	2		2
	Computer science	2	2	3		English language	2		1
Educational	Developing psychology	2		2	Educational	Educational administration & Secondary education	2		2
Total Hours and Units		16	8	20	Total Hours and Units		16	6	18

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Organic chemistry 1	2	3	3.5	Specialty	Organic chemistry 2	2	3	3.5
	Physical chemistry 1	2	3	3.5		Physical chemistry 2	2	3	3.5
	Coordination chemistry	4	3	5.5		Industrial chemistry	4	3	5.5
	Biochemistry	4		4		Pollution	2	1	2.5
Educational	Curricula & Teaching Methods	2		2	Educational	Guidance & Mental Health	2		2
Total Hours and Units		14	9	18.5	Total Hours and Units		12	10	17

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Biochemistry 1	2	3	3.5	Specialty	Biochemistry 2	2	3	3.5
	Instrumental Analysis	4	3	5.5		Industrial Chemistry	4	-	4
	Organic Characterization	2	3	3.5		Optional	2	-	2
Educational	Research Project	-	3	1.5		Quantum Chemistry and Spectroscopy	4	-	2
	Educational practice	-	4	2	Viewing & Application	2	2	3	
	Measurement and Evaluation	2	-	2					
Total Hours and Units		10	16	18	Total Hours and Units		14	5	14.5

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Geomorphology	2	1	3	Specialty	Climatology	2	1	3
	Africa G.	2		2		Australia's G.	2		2
	Weather Geography	2	1	3		Geomorphology	2	1	3
	Maps	2	1	3		Remote sensing	2	1	3
	Dynamic geography	2		2		Dry regions	2		2
General	English language	2		2	General	Computer science	2	1	3
	Arabic language	2		2	Assistant	History of Ancient Arab World	2		2
	Human rights	1		1	Educational	General Psychology	2		2
Educational	Foundations of education	2		2					
Total Hours and Units		17	3	20	Total Hours and Units		16	4	20

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Europe G.	2		3	Specialty	Asia G.	2		2
	Applied Climatology	2	1	3		Geography of Oil&Energy	2		2
	Population G.	3		3		Water Resources G.	3		3
	Basics of geomorphology	2	1	3		Rural Geography	2		2
	Development & Planning	2		2		Research Project	3		3
	thematic maps	2	1	3		Modern Technology	2	1	3
Assistant	Islamic State H.	2		2	General	Computer science	2	1	3
Educational	Developing psychology	2		2	General	Freedom&Democracy	1		1
					Educational	English language Educational administration & Secondary education	2		2
					Educational		2		2
Total Hours and Units		17	3	21	Total Hours and Units		21	2	23

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Agriculture geography	2		2	Specialty	Industry geography	2		2
	Geography of cities	2		2		Geography of Natural Resources	2	1	3
	North America	2		2		South America	2		2
	Geostatistics	2		2		Biogeographic	2		2
	Geography of tourism	2		2		Climatology	2	1	3
General	History of the modern Arab world	2		2	Geographical search methods	2		2	
	English language	2		2	General	English language3	2		2
Educational	Teaching methods	2		2	Educational	Educational guidance & Health mental	2		2
Total Hours and Units		16		16	Total Hours and Units		16	2	18

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Iraq G.	2		2	Specialty	Environment&Pollution	4		4
	Transportation Geography	2		2		social geography	2		2
	Geopolitics	2		2		Arab World G.	2		2
	Gis	2	1	3		Seas&Oceans G.	2		3
	Geographical thought	2		2	Assistant	Research project	2		1
Educational	Measurement & evaluation	2		2		Teaching Apps	2	1	1
	Practical view	2		2	Total Hours and Units				
Total Hours and Units		14	1	15	Total Hours and Units		14	1	13

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Grammar 1	3		3	Specialty	Grammar 2	3		3
	Morphology 1	3		3		Morphology	3		3
	History of Arabic Literature Pre-Islamic	3		3		Text of Arabic Literature Pre-Islamic	3		3
	Rhetoric 1	3		3		Rhetoric 2	3		3
	Language Skill (Expression)	2		2		Language Skills (Spelling & Composition)	3		3
Assistant	Quran Science & Hadith of the Prophet	3		3	Educational	Educational Psychology	2		2
Educational	Fundamental of Education	2		2	General	Democracy	1		1
General	Human Rights	1		1		English Language	2		2
Total Hours and Units		20		20	Total Hours and Units		20		20

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Grammar 3	3		3	Specialty	Grammar 4	3		3
	Morphology 3	3		3		Morphology 4	3		3
	Islamic Literature 1	3		3		Islamic Literature 2	3		3
	Rhetoric 3	2		2		Rhetoric 4	2		2
	Arabic Dictionary	2		2		Phonetics	2		2
	Prosody & Rhyme 1	3		3		Prosody & Rhyme 2	3		3
	Old texts	2		2		Educational	Educational Guidance	2	
Educational	Developing psychology	2		2	General	Computer science	1	2	2
General	English language	2		2		Total Hours and Units		19	2
Total Hours and Units		22		22	Total Hours and Units		19	2	20

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Grammar 5	3		3	Specialty	Grammar 6	3		3
	Linguistic 1	3		3		Linguistic 2	3		3
	Analysis of Quranic Text 1	2		2		Analysis of Quranic Text 2	2		2
	Abbasid literature1	3		3		Abbasid literature2	3		3
	Andalusian iiterature1	2		2		Andalusian literature 2	2		2
	Ancient Arabic Criticism 1	3		3		Ancient Arabic Criticism 2	3		3
	Curricula research & Library	2		2		Achieving Texts	2		2
Educational	Curricula methods	1	2	2	Educational	Teaching methods	1	2	2
					General	English language	2		2
Total Hours and Units		19	2	20	Total Hours and Units		21	2	22

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Grammar 7	4		4	Specialty	Grammar	2		2
	Philology 1	3		3		Philology 2	3		3
	Modern Arabic Literature 1	3		3		Modern Arabic Literature 2	3		3
	Modern Arabic Criticism 1	3		3		Modern Arabic Criticism 2	3		3
	Artistic prose	3		3		Semantics	2		2
Educational	Measurement & Evaluation	2		2	Comparative literature	3		3	
General	English language	2		2	Assistant	Research project	-	2	1
					Educational	Educational administration	2		2
						Viewing&Application	2	2	3
Total Hours and Units		20		20	Total Hours and Units		20	4	22

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Grammar 1	3		2	Specialty	Grammar 2	3		3
	Phonetics1	2	1	3		Phonetics2	2	1	3
	Introduction to literature (Prose & Prose)	3		2		Introduction to literature (Drama)	3		3
	Listening & Speaking1	2		2		Composition Writing	3		3
General	Human rights	2		2		Reading	3		3
	Arabic language	2		3	General	Computer science	2	1	4
Educational	Fundamentals of education	2		2		Educational	Educational Psychology	2	
Total Hours and Units		16	1	17	Total Hours and Units		18	2	22

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Morphology	3		3	Specialty	Grammar	3		3
	English Phonology1	2	1	3		English Phonology2	2	1	3
	One Act Play	2		3		Drama	2		2
	Short Story	2		2		Story	2		2
	16 th C. Poetry	2		2		17 th C. Poetry	2		2
	Advanced reading	2		3		An Introduction to Academic Writing	2		2
	Listening&Speaking2	2		3		An introduction to teaching methods	3		4
Educational	Adults' education	2		4	General	Computer science	1	1	2
Total Hours and Units		17	1	23		Total Hours and Units		17	2

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Grammar 1	3		3	Specialty	Grammar 2	3		3
	Linguistics 1	3		3		Linguistics 2	3		3
	Academic writing	2		3		Victorian Novel 2	3		3
	Victorian Novel 1	3		3		Victorian Poetry	3		3
	Renaissance Drama	3		3		Shakespearean Drama	3		3
	Romantic Poetry	2		2		Academic Writing & Research Paper	2		2
	Listening and Speaking 3	2		3		Educational	Counselling & Psychological Health	2	
Educational	Curricula Teaching Methods	4		3					
Total Hours and Units		22		23	Total Hours and Units		19		19

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Grammar 1	3		3	Specialty	Grammar 2	3		3
	Linguistics 1	3		3		Linguistics 2	3		3
	Modern English Novel	3		3		Modern American Novel	3		3
	Modern English Drama	3		3		Modern American Drama	3		3
	Modern Poetry 1	2		2		Modern Poetry 2	3		3
Educational	Viewing&Application	2		3	Advanced Listening&Speaking	3		3	
Assistant	Tests	3		3	Optional (Translation or literature history)	2		2	
					Assistant	Research Project			2
Total Hours and Units		19		20	Total Hours and Units		20		22

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Introduction to the sciences of the Qur'an	3		3	Specialty	Introduction to the sciences of the Qur'an	3		3
	Recitation & Memorization	3		3		Recitation & Memorization	3		3
	Introduction to Islamic jurisprudence	2		2		Introduction to Islamic jurisprudence	2		2
	Hadith sciences	3		3		Hadith sciences	3		3
	Logic principles	2		2		Logic principles	2		2
Assistant	Grammar	3		3	Assistant	Grammar	3		3
General	Democracy & Human rights	2		2	General	Computer science	2		2
	English language	1		1					
Total Hours and Units		21		21	Total Hours and Units		19		19

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Studies in the Qur'an sciences	3		3	Specialty	Studies in the Qur'an sciences	3		3
	Recitation & Memorization	3		3		Recitation & Memorization	3		3
	Interpretation science	3		3		Interpretation science	3		3
	Biography of the Prophet	2		2		Biography of the Prophet	2		2
	Jurisprudence of worship	2		2		Jurisprudence of worship	2		2
Assistant	Grammar	3		3	Assistant	Grammar	3		3
	Al-Balaghah (Bayan & Budaiya)	2		2	General	English language	2		2
Educational	Developing psychology	2		2	Educational	Educational administration & Secondary education	2		2
Total Hours and Units		20		20	Total Hours and Units		20		20

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Interpretation Methods	3		3	Specialty	Interpretation Methods	3		3
	Recitation & memorization	3		3		Recitation & memorization	3		3
	jurisprudence of transactions	2		2		jurisprudence of transactions	2		2
	Islamic belief	3		3		Qur'anic miracle	2		2
	Analytical talk	3		3		Analytical talk	3		3
Assistant	Grammar	2		2	Assistant	Grammar	2		2
	Rhetoric (meanings)	2		2		scientific research principles	2	1	3
Educational	Curricula & Methods of teaching Islamic education	2		2	Educational	Educational counseling & Mental health	3		3
	Teaching methods	2		2					
General	English language	2		2					
Total Hours and Units		22		22	Total Hours and Units		19	1	20

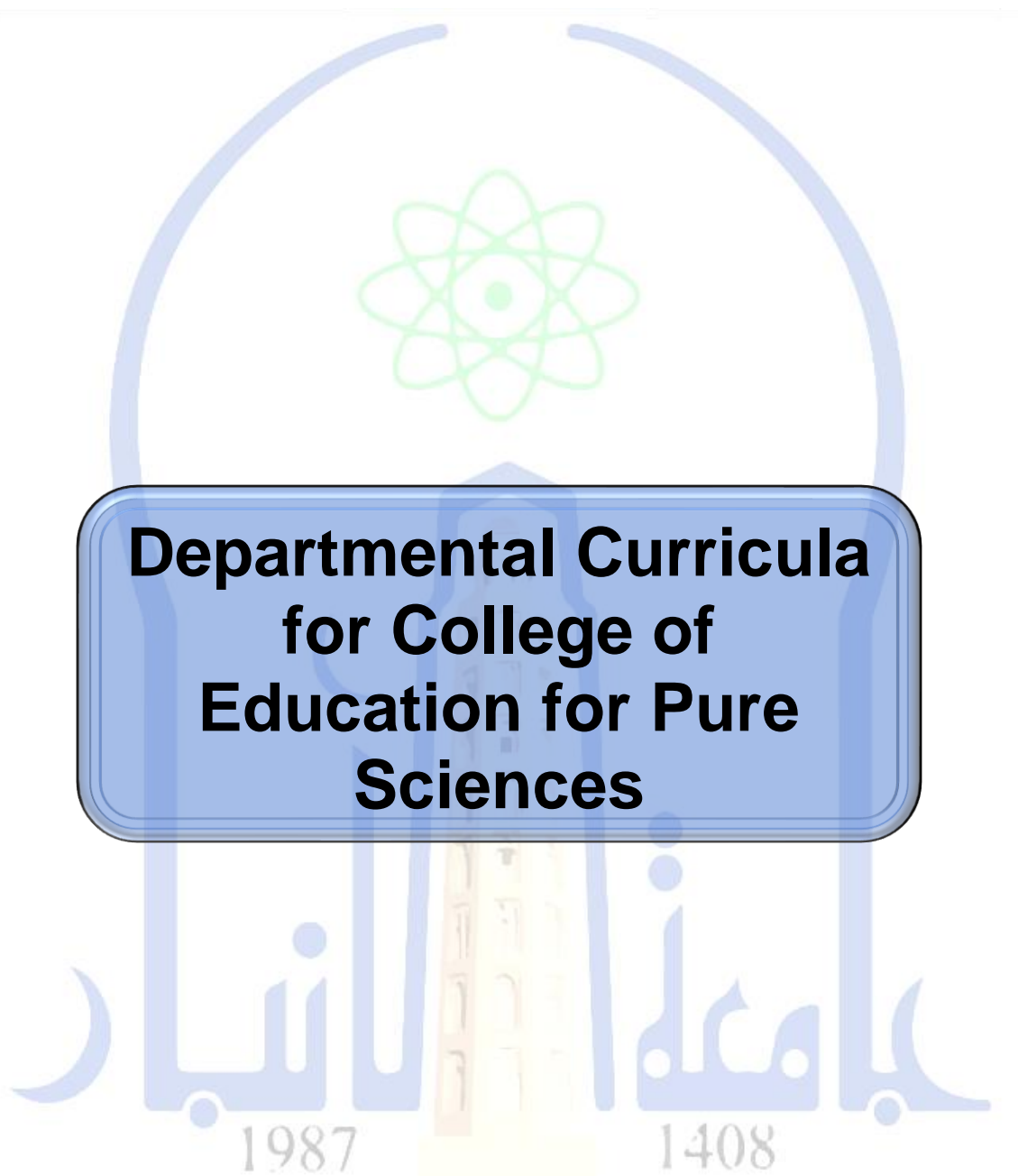
Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Interpretation methods	3		3	Specialty	Interpretation methods	3		3
	Recitation & Memorization	2	1	3		Recitation & Memorization	2	1	3
	Criminal jurisprudence	2		2		Criminal jurisprudence	2		2
	Usul al-Fiqh	3		3		Comparative Religions	3		3
	Islamic systems updated curricula	3		3	General	English language	2		2
		3		3		Grammar	2		2
Assistant	Grammar	2		2	Assistant	Graduation research	1	2	3
Educational	Measurement & Evaluation	2		2	Educational	Classroom observation & Practical application	1	2	3
Total Hours and Units		20	1	21	Total Hours and Units		16	5	21

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	History of Iraqi Contemporary1	3		3	Specialty	History of Iraqi Contemporary2	3		3
	Pre-Islamic Arab H. (Political &Urban)1	3		3		Pre-Islamic Arab H. (Social&Religious)2	3		3
	History of Islamic 1	3		3		History of Europe in Medieval 2	3		3
	History of Europe in Medieval 1	3		3		History of Era of Rashidun Caliphate	3		3
	Theoretical Research Methodology	2		2		Scientific Research Methodology	2		2
Assistant	Historical Geography	2		2	General	Freedoms &Democracy	2		2
General	Human Rights	2		2		Computer science	1	2	2
	Arabic language	2		2		English language	2		2
Educational	Education foundation	2		2	Educational	General Psychology	2		2
Total Hours and Units		22		22	Total Hours and Units		21	2	22

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	History of the Ancient Arab Country 1	3		3	Specialty	History of the Ancient Arab Country 2	3		3
	History of Arab Civilization in Andalusia 1	2		2		History of Arab Civilization in Andalusia 2	2		2
	History of the Umayyad State1	2		2		History of the Umayyad State2	2		2
	History of Europe in Renaissance1	2		2		History of Europe in Renaissance2	2		2
	History of Modern Arabic Countries 1	2		2		History of Modern Arabic Countries 2	2		2
	History of Ancient World Civilization	2		2		Assistant	Geography of the Arab Homeland	2	
Educational	Developing Psychology	2		2	Educational	Educational management	2		2
General	English language	2		2					
Total Hours and Units		17		17	Total Hours and Units		15		15

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	History of the Abbasid State1	3		3	Specialty	History of the Abbasid State2	3		3
	Civilization (Islamic Systems)	3		3		Civilization (Thought)	3		3
	Modern Iraq H. 1	2		2		Modern Iraq H. 2	2		2
	Modernization in Islamic Countries	2		2		History of Asia 2	2		2
	History of Europe in the 19 th Century 1	2		2		History of Europe in the 19 th Century 2	2		2
	Philosophy of History 1	2		2	Assistant	Philosophy of History 2	2		2
	History of Asia 1	2		2	General	English language	2		2
Educational	Curricula & Teaching methods	2		2	Educational	Guidance & Mental health	2		2
Total Hours and Units		18		18	Total Hours and Units		18		18

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Islamic Emirate H.& Jurisdictions1	2		2	Specialty	Islamic Emirate H.& Jurisdictions2	3		3
	History of Contemporary Arab Countries 1	3		3		History of Contemporary Arab Countries 2	3		3
	History of The Contemporary World 1	3		3		History of The Contemporary World 2	3		3
	Americas H. 1	2		2		Americas H. 2	2		2
	History of Contemporary Iraq1	3		3		History of Contemporary Iraq 2	3		3
General	English language	2		2	Assistant	Research project	2		2
Educational	Measurement & Evaluation	2		2	Educational	Application	1	2	2
	Viewing	1	2	2					
Total Hours and Units		18	2	19	Total Hours and Units		17	2	18



**Departmental Curricula
for College of
Education for Pure
Sciences**

1987 1408
UNIVERSITY OF ANBAR

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Zoology	2	2	3	Specialty	Botany	2	2	3
	Cytology 1	1	2	2		Cytology 2	1	2	2
General	Analytical chemistry	1	2	2	General	Organic chemistry	1	2	2
	Arabic language	2		2		English language	2		2
	Geology	2		2		Computer science	2	2	3
Educational	Human rights	1		1	Educational	Democracy	1		1
	Education Psychology	2		2		Foundation of education	2		2
Total Hours and Units		11	6	14	Total Hours and Units		11	8	15

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Invertibrates1	2	2	3	Specialty	Invertibrates2	2	2	3
	Histology	2	2	3		Embryology	2	2	3
	Plant Anatomy	2	2	3		Biochemistry	2	2	3
	Phycology	2	2	3		Archegonia	2	2	3
Assistant	Scientific Research Methods	2		2	Assistant	Bio Statistics	2	2	3
Educational	Developmental Psychology	2		2	Educational	Educational Administration	2		2
	English Language	2		2					
Total Hours and Units		14	8	18	Total Hours and Units		12	10	17

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Entomology	2	2	3	Specialty	Applied Entomology	2	2	3
	Chordate	2	2	3		Mycology	2	2	3
	Genetics 1	2	2	3		Plant taxonomy	2	2	3
	Microbiology	2	2	3		Biotechnology	2	2	3
	Plant morphology	2	2	3		Animal Physiology	2	2	3
	Micro techniques	1	2	2		Genetics 2	2	2	3
Educational	Curricula & Teaching methods	2		2	Educational	Educational counselling & Psychological Health	2		2
						English language	2		2
Total Hours and Units		13	12	19	Total Hours and Units		16	12	22

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Parasitology1	2	2	3	Specialty	Parasitology2	2	2	3
	Applied bacteria	2	2	3		Environmental Pollution	2	2	3
	Plant Physiology	2	2	3		Immunology	2	2	3
	Ecology	2	2	3		General health	2		2
	Molecular biology	2	2	3		Optional	2		2
Educational	teaching applications		4	2	Educational	Cellular metabolism	2	2	3
	Measurement & Evaluation	2		2		School applications		4	2
	English language	2		2					
Assistant	Graduation research project						6		3
Total Hours and Units		14	14	21	Total Hours and Units		12	18	21

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Analytical Chemistry 1	2	3	3,5	Specialty	Analytical chemistry 2	2	3	3,5
	Organic chemistry 1	2	3	3,5		Organic chemistry2	2	3	3,5
	Inorganic chemistry 1	2		2		Inorganic chemistry 2	2		2
General	Computer science	2	2	3	Assistant	Biology	2	2	3
	Chemical Safety & Security	1		1	General	Mathematics	2		2
	Arabic language	2		2		Freedom & Democracy	1		1
	Human rights	1		1		English language	2		2
Educational	Educational Psychology	2		2	Educational	Fundamentals of education	2		2
Total Hours and Units		14	8	18	Total Hours and Units		15	8	19

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Inorganic chemistry	4	3	5.5	Specialty	Analytical chemistry	4	3	5.5
	Organic chemistry	4	3	5.5		Physical chemistry	4	3	5.5
Assistant	Methods of scientific research	2		2	General	Mathematics	2		2
General	English language	2		2		Physics	2		2
	Computer science	2	2	3	Educational	Educational administration	2		2
Educational	Developmental of Psychology	2		2					
Total Hours and Units		16	8	20	Total Hours and Units		14	6	17

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Organic Chemistry/1	2	3	3.5	Specialty	Organic Chemistry/2	2	3	3.5
	Physical Chemistry1	2	3	3.5		Physical Chemistry/2	2	3	3.5
	Inorganic Chemistry	4	3	5.5		Industrial Chemistry	4	3	5.5
	Biochemistry	4	-	4		Pollution	2	-	2
Educational	Curricula and Teaching method	2	-	2	General	English Language	2	-	2
					Educational	Educational Counselling & Psychological Health	2	-	2
Total Hours and Units		14	9	18.2	Total Hours and Units		14	9	18.5

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Biochemistry/1	2	3	3.5	Specialty	Biochemistry/2	2	3	3.5
	Instrumental Analysis	4	3	5.5		Industrial Chemistry	4		4
	Organic Identification	2	3	3.5		Selective Topic	2		2
		Physical Chemistry	4		4	Educational	Classroom Observation		4
Assistant	Graduation Research Project							6	3
Educational	Teaching Practicum	2		2					
	Measurement & Evaluation	2		2					
General	English language	2		2					
Total Hours and Units		18	9	22.5	Total Hours and Units		8	13	14.5

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Material properties	3	3	4	Specialty	Mechanics	3	3	4
	Electricity	3	3	4		Engineering optics	3	3	4
	Heat	2	2	2		Magnetism	2		2
	Calculus	3		3		Linear Algebra	2		2
Assistant	Computer sciences	1	2	2	General	English language	2		2
General	Arabic language	2		2		Freedom & Democracy	1		1
Educational	Human rights	1		1	Educational	Fundamentals of education	2		2
	General Psychology	2		2					
Total Hours and Units		17	8	20	Total Hours and Units		15	6	17

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Advanced electricity	3	3	4	Specialty	Advanced magnetism	3	3	4
	Physical optics	3	3	4		Thermodynamics	3		3
	Sound & Wave Motion	2		2		Differential equations	3		3
	Astronomy physics	3		3		Atmospheric Physics	2		2
	Advanced calculus	2		2		Health physics	2		2
Educational	Method of scientific research	2		2	Assistant	Programming	1	2	2
	Developmental Psychology	2		2	Educational	Educational Management	2		2
Total Hours and Units		17	6	19	Total Hours and Units		16	5	18

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Atomic Physics	3	3	4	Specialty	Molecular Physics	3	3	4
	Electronics	3	3	4		Electronic circuits	3	3	4
	Crystals science	2		2		Quantum mechanics 1	2		2
	Analytical mechanics	2		2		Statistical mechanics	3		3
	Complex functions	2		2		Groups Theory	2		2
	New& Renewable Energy	2		2	Assistant	English language	2		2
Educational	Curricula & Teaching method	2		2	Educational	Counseling & Psychological Health	2		2
Total Hours and Units		16	6	18	Total Hours and Units		17	6	19

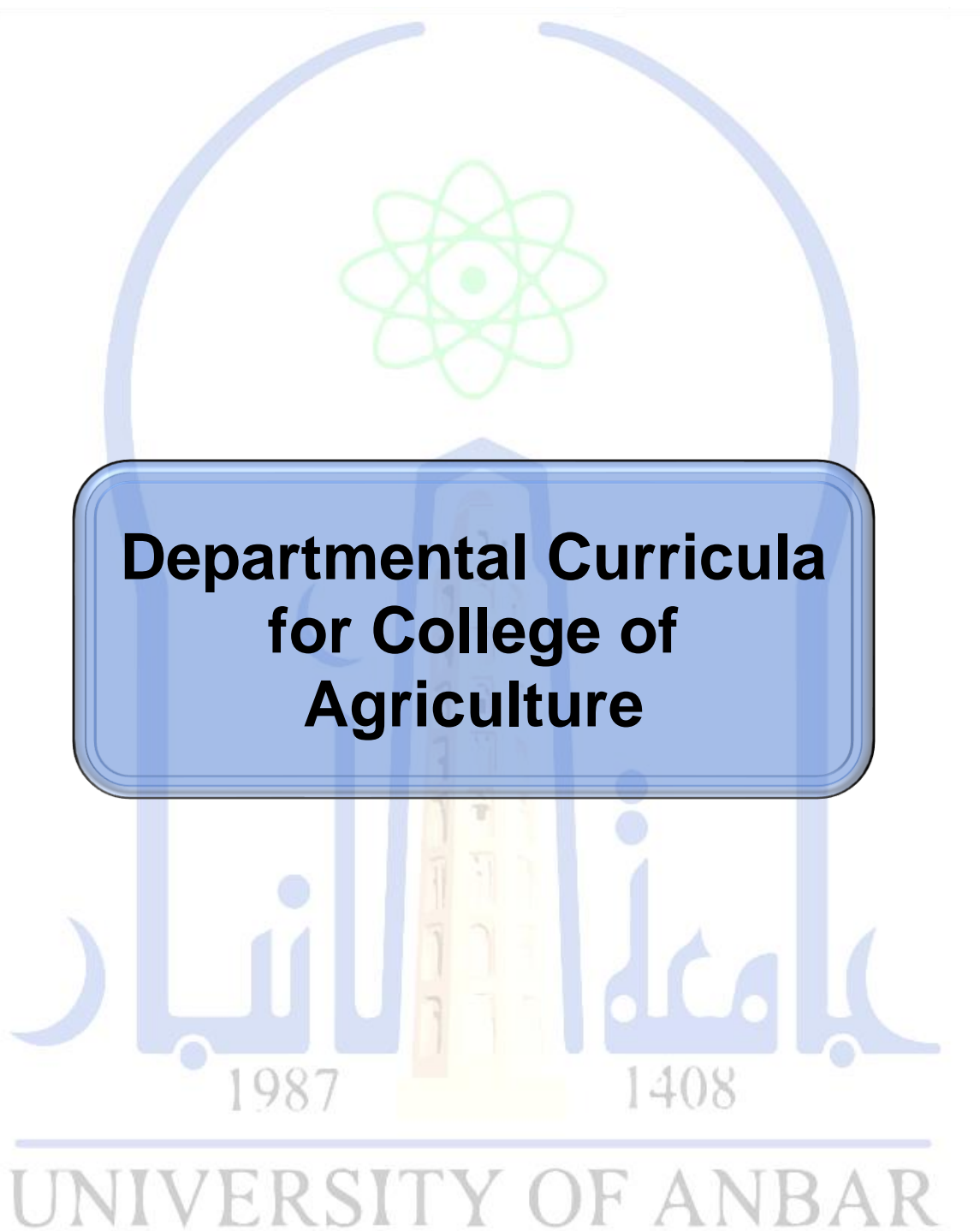
Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Nuclear Physics	3	3	4	Specialty	Nano Technology	2		2
	Quantum Mechanics2	2		2		Electrodynamics	3		3
	Electromagnetic	3		3		Laser	2		2
	Solid State Physics1	3		3		Solid state Physics2	3		3
	Audio- visual aids	1	2	2		Radiation Physics	3		3
Assistant	English language	2		2	Educational	Teaching Practicum		4	2
	Graduate projects						3		2
Educational	Measurement & Evaluation	2		2					
	Classroom observation	2		2					
Total Hours and Units		18	5	20	Total Hours and Units		16	4	17

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Calculus 1	3	2	4	Specialty	Calculus 2	3	2	4
	Fundamental of Mathematics 1	2	2	3		Fundamental of Mathematics 2	2	2	3
	Linear of Algebra 1	2	2	3		Linear of Algebra 2	2	2	3
General	Arabic language	2	0	2	General	English language	2	0	2
	Human right	1	0	1		Freedom & Democracy	1	0	1
	Physics 1	2	0	2		Physics 2	2	0	2
	Computer Science1	1	2	2		Computer Science2	1	2	2
Educational	Educational psychology	2	0	2	Educational	Fundamentals of Education	2	0	2
Total Hours and Units		15	8	19	Total Hours and Units		15	8	19

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Advance Calculus1	3	2	4	Specialty	Advance Calculus2	3	2	4
	Ordinary differential equation 1	2	2	3		Ordinary differential equation 2	2	2	3
	Groups Algebra 1	2	2	3		Groups Algebra 2	2	2	3
	Geometry 1	2	2	3		Geometry 2	2	2	3
General	English Language	2	0	2	Educational	Educational Administration	2	0	2
Assistant	Advance computer science 1	1	2	2	Assistant	Advance computer science2	1	2	2
	Scientific research Methodology	2	0	2					
Educational	Childhood psychology	2	0	2					
Total Hours and Units		15	10	21	Total Hours and Units		12	10	17

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specific	Mathematical analysis 1	2	2	3	Specific	Mathematical analysis 2	2	2	3
	Probability 1	2	2	3		Probability 2	2	2	3
	Partial Diff. Equations 1	2	2	3		Partial Diff. Equations 2	2	2	3
	Rings Algebra 1	2	2	3		Rings Algebra 2	2	2	3
	Numerical analysis 1	2	2	3		Numerical analysis 2	2	2	3
Educational	Curriculum & teaching methods	2	0	2	Educational	Educational guidance	2	0	2
					General	English language	2	0	2
Total Hours and Units		12	10	17	Total Hours and Units		14	10	19

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Complex Analysis1	2	2	3	Specialty	Complex Analysis2	2	2	3
	Mathematical statistics 1	2	2	3		Mathematical statistics 2	2	2	3
	Topology 1	2	2	3		Topology 2	2	2	3
	Functional analysis 1	2	2	3		Functional analysis2	2	2	3
	Modules 1	2	2	3		Modules 2	2	2	3
Educational	Measuring & evaluating	2	0	2	Educational	School apps	2	0	2
	Teaching apps	2	0	2	Assistant	Graduation project	2	0	2
General	English language	2	0	2					
Total Hours and Units		16	10	21	Total Hours and Units		14	10	19



**Departmental Curricula
for College of
Agriculture**

1987 1408
UNIVERSITY OF ANBAR

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
College requirement	Principles of Economics	2	3	3.5	Department requirement	Mathematical Economic 2	2		3.5
	Principles of Animal Production	2	3	3.5	College requirement	Principles of Agricultural Economics	2	3	3.5
	Principles of Horticulture	2	3	3.5		Principles of Plant Protection	2	3	3.5
University requirement	General Mathematics	2		3.5		Principles of Field Crops	2	3	3.5
	English language1	2		1	Principles of Agricultural Extension	2		3.5	
	Human rights & Public freedom	2		1	University requirement	Computer application	2	1	1.5
	Computer science	2	1	1.5					
Total Hours and Units		13	10	17.5	Total Hours and Units		11	10	19

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Department requirement	Microeconomic theory 1	2	3	3.5	Department requirement	Microeconomic theory2	2	3	3.5
College requirement	Principles of statistics	2	3	3.5		Agricultural statistics	2	3	3.5
	Principles of Food industry	2	3	3.5		Rural community	2	3	2
	Principles of Soil	2	3	3.5	Care& storage	2	3	3.5	
	Fertility&Fertilization	2	3	3.5	Machines&tools	2	3	3.5	
	Computer Application 2	2	3	1.5	College requirement	principles of Dairy	2	3	3.5
University requirement	English language 2	2		2	University requirement	Computer sciences	1	1	1.5
	Arabic language	2		1					
Total Hours and Units		15	13	15	Total Hours and Units		13	19	21

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Department requirement	Macroeconomic theory I	2	3	3.5	Department requirement	Macroeconomic theory 2	2	3	3.5
	Accounting principles	2	3	3.5		Agricultural accounting	2	3	3.5
	Agricultural catering & Credit	2	3	3.5		Agricultural Cooperative	2	3	3
	Agricultural marketing	2	3	3.5		Management of farm businesses	2	3	3.5
	Production economics	2	3	3.5		Operation Research	2	3	3.5
University requirement	Seminars & Research methods	2	3	3.5	University requirement	Seminars	1		1
Total Hours and Units		12	18	20	Total Hours and Units		11	15	18

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Department requirement	Econometrics I	2	3	3.5	Department requirement	Econometrics2	2	3	3.5
	Evaluation of Projects I	2	3	3.5		Evaluation of Projects 2	2	3	3.5
	Agricultural Development	2	3	3		Agricultural Planning	2	3	3
	Agricultural Policy	2	3	3.5		Analysis of Prices	2	3	3.5
	Economic of Natural Resources	2	3	3.5		Agricultural economy	2	3	3
	Exogenous Trade	2	3	3.5		Environment economy	2	3	3
University requirement	Graduation Research		3	1.5	University requirement	Graduation Research		3	1.5
Total Hours and Units		12	21	21.5	Total Hours and Units		12	21	22

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
College requirement	Surveying	2	3	2.5	College requirement	General animal	2	3	3.5
	Basics of plant protection	2	3	3.5		Poultry principles	2	3	3.5
	Analytical chemistry	2	3	3.5		Principles of field crops	2	3	3.5
	Principles of soil	2	3	3.5		Organic chemistry	2	3	3.5
	Principles of animal production	2	3	3.5		Principles of Statistics	2	3	3.5
University requirement	Human rights & public liberties	2		1	University requirement	Mathematics	2	3	3
	Computer applications 1	1	1	1.5		Computer applications 2	1	1	1
	English language 1	2		1					
Total Hours and Units		15	16	20	Total Hours and Units		13	16	21.5

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Department requirement	Animal production mechanization	2	3	3.5	Department requirement	Fundamentals of fish farming & production	2	1	2
	Fish principles	2	3	3.5	College requirement	Genetics	2	3	3.5
	Animal health products	2	3	3.5		Forage & pasture crops	2	3	3.5
College requirement	Biochemistry	2	3	3.5	College requirement	Principles of dairy science	2	3	3.5
	Principles of Agricultural Extension	2		3.5		Agricultural economics	2	3	3.5
	Principles of horticulture	2	3	2	University requirement	Computer applications2	2	3	1
	Microbiology Principles	2	3	3.5		Freedom & Democracy	2	3	3.5
University requirement	Arabic language	2		2					
	Computer sciences	2	1	2					
	English language	2		2					
Total Hours and Units		19	19	28	Total Hours and Units		11	16	18.5

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Department requirement	Animal feeding	2	3	3.5	Department requirement	Feed & Rations	2	3	3.5
	Hatching & Hatchery management	2	3	3.5		poultry technology	2	3	3.5
	Animal behavior & Environment	2	3	3.5		Physiology of domestic birds	2	3	3.5
	animal production economics	2	3	3.5		Breeding & improving animal	2	3	3.5
	Animal Physiology	2	3	2		Animal diseases	2	3	3.5
	Medicinal & veterinary insects	2	3	3.5		Reproductive Physiology	2	3	3.5
College requirement	Experiment design & analysis	2	3	3	University requirement	English language	2		1
Total Hours and Units		14	21	22.5	Total Hours and Units		14	18	22

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Department requirement	Sheep& goats' production	2	3	3.5	Department requirement	milk cows' production	2	3	3.5
	Poultry feed	2	3	3.5		poultry disease	2	3	2
	Breeding & improving domestic birds	2	3	3.5		Buffalo Production	2	3	3.5
	meat production	2	3	3.5		meat science	2	3	3.5
	Poultry production & Management	2	3	3.5		Molecular biology	2	3	3.5
College requirement	pasture management	2	3	3.5	University requirement	Seminars	2	3	1
University requirement	Graduation research project		3	1.5		Graduation research project	2	3	1.5
						English language		3	2
Total Hours and Units		12	21	22.5	Total Hours and Units		16	21	20.5

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
College requirement	Surveyor	2	3	3.5	College requirement	Principles of soil science	2	3	3.5
	Agricultural machinery & equipment	2	3	3.5		Animal production principles	2	3	3.5
	Principles of the food industry	2	3	3.5		Organic chemistry	2	3	3.5
	General plant	2	3	3.5		Statistic	3		2.5
	Principles of field crops	2	3	3.5		Engineering Drawing	2	3	1.5
University requirement	Mathematics	2		2	Principles of agricultural economics	3		2	
	Computer applications 1	1	1	1.5	Computer applications 1	1	1	1.5	
	English language	2		1					
	Human rights & Public freedoms	1		1					
Total Hours and Units		16	16	22	Total Hours and Units		15	13	18

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
College requirement	Microbiology Principles	2	3	3.5	Department requirement	Nurseries & Propagation	2	3	3.5
	Plant environment	2	3	3.5	College requirement	Biochemistry	2	3	3.5
	Organic Agriculture	2	3	3.5		Plant Anatomy	2	3	3.5
	Garden design principles	2	3	3.5		Plant physiology	2	3	3.5
	Genetics	2	3	3.5		Plant nutrition	2	3	3.5
	Garden plant insects	2	3	2.5		Principles of Agricultural Extension	2	3	2
University requirement	Arabic language	2		2		Jungles & ways to combat them	2	3	3.5
	English language	2		1	Freedom & Democracy	2	3	1	
	Computer applications 2	1	1	1.5	Computer applications	1	1	1.5	
Total Hours and Units		17	19	24.5	Total Hours and Units		17	25	25.5

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Department requirement	Principles of Deciduous Fruits1	2	3	3.5	Department requirement	Principles of deciduous Fruits 2	2	3	3.5
	Production of vegetables1	2	3	3.5		Production of vegetables 2	2	3	3.5
	Ornamental plant 1	2	3	3.5		Ornamental plant 2	2	3	2.5
College requirement	Design & Analysis of experiments	2	3	3.5	College requirement	Disease horticulture Crops	2	3	2.5
	Plant growth regulators	2	3	3.5		Beekeeping	2	3	3.5
	Irrigation&Drainage	2	3	3.5		Plant breeding	2	3	3.5
					University requirement	Medical& Aromatic plants	2	3	1
						English language	2		1.5
Total Hours and Units		12	18	20	Total Hours and Units		16	21	21.5

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Department requirement	Tissue culture	2	3	3.5	Department requirement	Palm production	2	3	3.5
	Permaculture fruit	2	3	3.5		Production of grapes & small fruits	2	3	3.5
	Protected Agriculture	2	3	3.5		Biotechnologies	2	3	3.5
	vegetable seeds production	2	3	3.5		Harvesting&storing horticultural crops	2	3	3.5
	Garden engineering	2	3	2.5		Soil fertility & fertilizers	2	3	3.5
	Farms Management	2	3	2.5		Seminars	2	3	1
University requirement	Graduation research project		3	1.5	University requirement	Graduation research project		3	1.5
					University requirement	English language	2		1
Total Hours and Units		12	21	20.5		Total Hours and Units		14	21

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
College requirement	Organic chemistry	2	3	3.5	College requirement	Principles of geology	2	3	3.5
	General Physics	2	3	3.5		Fruit production	2	3	3.5
	Engineering Drawing	2	3	1.5		Agricultural economy	2		1.5
	Principles of field crops	2	3	3.5		Computer applications	2	1	1.5
	Animal production principles	2	3	3.5		Analytic chemistry	2	3	3.5
University requirement	Mathematics	2		3.5	University requirement	Surveying	2	3	3.5
	English language	2		1.5		Mathematics	2		2.5
	Computer applications	1	1	1.5		English language	2		1.5
	Human rights	2		1.5					
Total Hours and Units		17	16	22.5	Total Hours and Units		17	13	21

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Department requirement	Atmospheric air soil environment	2	3	3.5	Department requirement	Soil, water, & plant analysis	2	3	3.5
College requirement	Principles of soil	2	3	3.5		Land settlement & modification	2	3	1.5
	Biochemistry	2	3	3.5	Agricultural guidance	2		3.5	
	Statistics	2		3.5	Plant physiology	1	3	1.5	
	Vegetable production	2	3	3.5	Foundations of prevention	2	3	2	
	Principles of Microbiology	2	3	3.5	Agricultural machinery & equipment	2	3	3.5	
University requirement	Computer applications	1	1	1.5	University requirement	Computer applications	1	1	1.5
	English language	1		1.5		Freedom & Democracy	2		3.5
	Arabic language	2		1.5					
Total Hours and Units		17	16	25.5	Total Hours and Units		14	16	20.5

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Department requirement	Soil & water pollution	2	3	3.5	Department requirement	Soil Morphology	2	3	3.5
	Organic matter	2	3	3.5		Salinity of soil	2	3	3.5
	Soil chemistry	2	3	3.5		Puncture	2	3	3.5
	Irrigation	2	3	3.5		Soil minerals	2	3	3.5
	Soil fertility and fertilization	2	3	3.5		College requirement	Economics of natural resources	2	3
	Soil physics	2	3	3.5	Remote Sensing	2	3	3.5	
College requirement	Design and analysis of experiments	2	3	3.5	University requirement	English language	2		1.5
Total Hours and Units		14	21	24.5	Total Hours and Units		14	18	22

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Department requirement	Soil survey and classification	2	3	3.5	Department requirement	soil management	2	3	3.5
	Soil Biology	2	3	3.5		land reclamation	2	3	3.5
	Hydrologic	2	3	3.5		desertification	2	3	3.5
	Soil & water maintenance	2	3	3.5		Fertilizer Technologies	2	3	3.5
	Soil, water, and plant relationship	2	3	3.5		Graduation project		3	1.5
	Irrigation systems technologies	2	3	3.5	College requirement	Plant nutrition	2	3	3.5
University requirement	Research Projects		3	1.5	University requirement	Seminars	2		1.5
					English language	2		1.5	
Total Hours and Units		18	21	22.5	Total Hours and Units		13	27	22

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
College requirement	General Chemistry	2	3	3.5	College requirement	Analytical Chemistry	2	3	3.5
	Mathematics	2		2		Engineering workshops	2	3	3.5
	Principles of Horticulture	2	3	3.5		Principles of Animal production	2	3	3.5
	Human rights	2		1		Principles of soil	2	3	3.5
	English language	2		1		Principles of Food Processing	2	3	3.5
	Agricultural economics	2		2		Statistics	2		3.5
	Engineering drawing	2	3	1.5		University requirement	Computer sciences	1	1
University requirement	Computer sciences	1	1	1.5					
Total Hours and Units		15	10	16	Total Hours and Units		13	16	22.5

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
College requirement	Principles of Microbiology	2	3	3.5	Department requirement	Food engineering labs	2	3	3.5
	Organic Chemistry	2	3	3.5		Health food	2	3	3.5
	Principles of Dairy	2	3	3.5		Factory management	2	3	2
	Analysis & Design Experiments	2	3	3.5	College requirement	Biochemistry	2	3	3.5
	Agricultural extension	2		2		Physical chemistry	2	3	3.5
	Computer sciences	2	1	1.5		Stores pests	2	3	3.5
	University requirement	Industrial crops	2	3	3.5	University requirement	Computer sciences	1	1
English language		2	1	1	Arabic language		2		1.5
Freedom & Democracy		2		1					
Total Hours and Units		17	17	22	Total Hours and Units		15	19	22.5

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Department requirement	Food Microbiology	2	3	3.5	Department requirement	Liquid dairy products	2	3	3.5
	Food Chemistry	2	3	3.5		Genetic Engineering	2	3	3.5
	Liquid Milk	2	3	3.5		Dairy Chemistry	2	3	3.5
	Molecular Biology	2	3	3.5		Metabolic pathways	2	3	3.5
	Agricultural Marketing	2	3	2		Bread and pastries	2	3	3.5
	Principles of Human Nutrition	2	3	2		Baan's microscopic revival	2	3	3.5
	Cereal Processing	2	3	3.5	University requirement	English language	2		1
Total Hours and Units		14	21	21.5	Total Hours and Units		14	18	22

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Department requirement	Biotechnology 1	2	3	3.5	Department requirement	Biotechnology2	2	3	3.5
	Food Processing1	2	3	3.5		Butter & ice cream	2	3	3.5
	Meat & fish processing	2	3	3.5		Therapeutic feeding	2	3	3.5
	Food Analysis	2	3	3.5		quality control	2	3	3.5
	Cheese making	2	3	3.5		Food Processing 2	2	3	3.5
	Handling & storage	2	3	3.5		English language	2	3	1
University requirement	Project graduation research		3	1.5	University requirement	Seminars	1	3	1
Total Hours and Units		12	21	22.5	Total Hours and Units		12	21	22.5

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
College requirement	General Plant	2	3	3.5	College requirement	Biochemistry	2	3	3.5
	Organic Chemistry	2	3	3.5		Agricultural Economy	2	3	3
	Surveying	2	3	2.5		Principles of Field Crops	2	3	3.5
	Mathematics	2		1.5		Soil Principles	2	3	3.5
	Engineering Drawing	2	3	3		Animal Production	2	3	3.5
University requirement	Human Rights	2		1.5	University requirement	Computer Applications 2	1	1	1.5
	English language 1	2		1		English language 2	2		1
Total Hours and Units		14	12	16.5	Total Hours and Units		13	16	19.5

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
College requirement	Principles of horticulture	2	3	3.5	Department requirement	Farm management	2	3	3.5
	Agricultural machinery & equipment	2	3	3.5		Oil & sugar crops	2	3	3.5
	Principles of agricultural extension	2		2	College requirement	Principles of Statistics	2	3	3.5
	principles of food industries	2	3	3.5		Plant environment	2	3	3.5
	Soil fertility & Fertilizers	2	3	3.5		Microbiology Principles	2	3	3.5
	plant classification	2	3	3.5		Irrigation & Drainage	2	3	3.5
University requirement	Computer applications 2	1	1	1.5	University requirement	Computer sciences	1	1	1.5
						Arabic language	2		2
						Freedom & Democracy	2		1
Total Hours and Units		13	16	21	Total Hours and Units		17	19	25.5

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Department requirement	Plant Genetics	2	3	3.5	Department requirement	Fibers crops	2	3	3.5
	Design and analysis of experiments	2	3	3.5		Grain crops	2	3	3.5
	Field crop mechanization	2	3	3.5		legume crops	2	3	3.5
	Field crop insects	2	3	3.5		Field crop diseases	2	3	3.5
	Land reclamation	2	3	3.5		Beekeeping	2	3	3.5
	Forage crops	2	3	3.5		Seed technology	2	3	3.5
					University requirement	English language	2		1.5
Total Hours and Units		12	18	21	Total Hours and Units		14	18	22.5

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Department requirement	Medicinal plants	2	3	3.5	Department requirement	Plant breeding	2	3	3.5
	Plant physiology	2	3	3.5		Growth regulators	2	3	3.5
	Weed biology	2	3	3.5		Weed biology	2	3	3.5
	Field crop management	2	3	3.5		Pasture management	2	3	3.5
	Cultivation of land	2	3	3.5		environmental stress	2	3	3.5
	Molecular inheritance	2		3		Seminars	1		1
University requirement	Graduation research project		3	1.5	University requirement	Graduation research project		3	1.5
Total Hours and Units		12	18	18.5	Total Hours and Units		11	18	16.5

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
College requirement	Common animal	2	3	3.5	College requirement	General plant	2	3	3.5
	Insect Principles	2	3	3.5		Inorganic chemistry	2	3	3.5
	Principles of horticulture	2	3	3.5		Insect Principles	2	3	3.5
	Principles of agricultural economics	2		2		Principles of soil science	2	3	3.5
University requirement	Human rights & public freedoms	1		1	University requirement	Mathematics	2		3
	Computer applications 1	1	1	1.5		Computer Sciences	1	1	1.5
	English language	1		1					
Total Hours and Units		11	10	16	Total Hours and Units		11	12	18.5

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
College requirement	Microbiology Principles	2	3	3.5	College requirement	Insect classification	2	3	3.5
	Plant classification	2	3	3.5		Medical & veterinary insects	2	3	3.5
	plant physiology	2	3	3.5		Principles of field crops	2	3	3.5
	Principles of Agricultural Extension	2	3	2		Analytical chemistry	2	3	3.5
	Principles of Statistics	2		3.5		Plant nutrition	2	3	3.5
	Machines & equipment	2	3	3.5		Freedom & Democracy	1		1
	Animal production principles	2	3	3.5		Computer applications 2	1	1	1.5
University requirement	Computer sciences	1	1	1.5	Arabic language	2		2	
Total Hours and Units		15	19	24.5	Total Hours and Units		14	16	22

Third Year										
Semester I					Semester II					
Category	Subject	Hours		Units	Category	Subject	Hours		Units	
		Theoretical	Practical				Theoretical	Practical		
College requirement	Biochemistry	2	3	3.5	College requirement	plant breeding	2	3	3.5	
	heredity	2	3	3.5		plant diseases	2	3	3.5	
	Design and analysis of experiments	2	3	3.5		The bush and ways to combat it	2	3	3.5	
	Fungi 1	2	3	3.5		fungi 2	2	3	3.5	
	Insect physiology	2	3	3.5		life technologies	2	3	3.5	
	Ecology	2	3	3.5		snake worms	2	3	3.5	
						University requirement	beekeeping	2	3	3.5
							English language1	2		1
Total Hours and Units		12	18	17.5	Total Hours and Units		16	21	25.5	

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Department requirement	Vegetable diseases and protected cultivation	2	3	3.5	Department requirement	agricultural dream	2	3	3.5
College requirement	Crop diseases	2	3	3.5		Fruit diseases	2	3	3.5
	pesticides	2	3	3.5		Plant viruses	2	3	3.5
	Insect environment	2	3	3.5		Orchard's insects	2	3	3.5
	Pest stores	2	3	3.5		Crop insects	2	3	3.5
	Vital resistance	2	3	3.5		Integrated pest management	2		2
	Graduation research project			3	1.5	University requirement	Graduation research project		3
					Seminars		2		1
					English language 1		2		1
Total Hours and Units		12	21	22.5	Total Hours and Units		15	18	23



**Curricula for
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First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Human biology	2	2	3		Human Anatomy	1	2	2
	Principles of Pharmacy Practice	2		2		Pharmaceutical Calculations	2	2	3
	Analytical Chemistry	3	2	4		Medical Physics	2	2	3
	Medical Terminology	1		1		Organic Chemistry I	3	2	4
	Mathematics and Biostatistics	3		3		Histology	2	2	3
	Computer Sciences		2	1		Human Rights	1		1
	English Language	2		2		Computer Sciences		2	1
	Arabic Language	2		2					
Total Hours and Units		15	6	18	Total Hours and Units		11	12	17

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Organic Chemistry2	3	2	4		Organic Chemistry 3	2	2	3
	Medical Microbiology 1	3	2	4		Medical Microbiology2	3	2	4
	Physical Pharmacy1	3	2	4		Physical Pharmacy 2	3	2	4
	Physiology 1	3	2	4		Physiology 2	3	2	4
	Biosecurity and Biosafety	1	2	2		Pharmacognosy 1	3	2	4
	Computer Sciences		2	1		Computer Sciences		2	1
	English Language	2		2		Arabic Language	2		2
	Democracy	1		1					
Total Hours and Units		16	12	22	Total Hours and Units		16	12	22

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Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Inorganic Pharmaceutical Chemistry	2	2	3		Organic Pharm. Chemistry 1	3	2	4
	Pharmacognosy 2	2	2	3		Pharmacology1	3		3
	Pharmaceutical Technology 1	3	2	4		Pharmaceutical Technology 2	3	2	4
	Biochemistry 1	3	2	4		Biochemistry 2	3	2	4
	Pathophysiology	3	2	4		Pharmacognosy3	2	2	3
						Medical Ethics	1		1
						English Language	2		2
Total Hours and Units		13	10	18	Total Hours and Units		17	8	21

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Pharmacology2	3	2	4		Pharmacology3	2		2
	Organic Pharm. Chemistry 2	3	2	4		Organic Pharm. Chemistry 3	3	2	4
	Clinical Pharmacy1	2	2	3		Clinical Pharmacy2	2	2	3
	Biopharmaceutics	2	2	3		General Toxicology	2	2	3
	Public Health	2		2		Industrial Pharmacy1	3	2	4
						Communication Skills	2		2
						English Language	2		2
Total Hours and Units		12	8	16	Total Hours and Units		16	8	20

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Fifth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Organic Pharm. Chemistry4	2		2		Pharmacoeconomic	2		2
	Industrial Pharmacy 2	3	2	4		Applied Therapeutics 2	2		2
	Applied Therapeutics1	3		3		Therapeutic Drug Monitoring (TDM)	2	2	3
	Clinical Chemistry	3	2	4		Advanced Pharmaceutical Analysis	3	2	4
	Hospital Training		4	2		Clinical Laboratory Training		4	2
	Clinical Toxicology	2	2	3		Dosage Form Design	2		2
						Pharmaceutical Biotechnology	1		1
						Graduation project	1		1
Total Hours and Units		13	10	18	Total Hours and Units		13	8	17





**Curricula for
College of Medicine**

1987 1408
UNIVERSITY OF ANBAR

First Year				
Category	Subject	Hours		Units
		Theoretical	Practical	
	Biosafety& Biosecurity	15	0	1
	Computers	30	60	4
	Arabic Language	30	0	0
	English Language	30	0	0
	Human Rights	30	0	2
	Foundation of Medicine	30	0	2
	Medical Biology	60	30	5
	Medical Chemistry	30	60	4
	General Physiology	30	0	2
	Medical Physics	30	60	4
	General Anatomy	60	120	8
Total Hours and Units		375	330	32

Second Year				
Category	Subject	Hours		Units
		Theoretical	Practical	
	Physiology	150	120	12
	Biochemistry	90	60	8
	Histology	45	90	6
	Anatomy	60	150	9
	Embryology	30	0	2
Total Hours and Units		435	420	37

Third Year				
Category	Subject	Hours		Units
		Theoretical	Practical	
	Pharmacology	90	60	8
	Microbiology	75	60	7
	Parasitology	60	60	6
	Pathology	60	45	5.5
	Community Medicine	30	30	3
	Internal Medicine	45	60	5
	General Surgery	30	0	2
Total Hours and Units		390	315	36.5

Fourth Year				
Category	Subject	Hours		Units
		Theoretical	Practical	
	Pathology	60	45	5.5
	Community Medicine	90	120	10
	Medical Ethics	30	0	2
	Obstetrics & Gynecology	75	90	8
	Forensic medicine	60	60	6
	Internal Medicine	135	90	12
	General Surgery	90	90	9
Total Hours and Units		495	495	52.5

Fifth Year				
Category	Subject	Hours		Units
		Theoretical	Practical	
	Psychiatry	45	30	4
	Dermatology	30	30	3
	ENT	30	30	3
	Ophthalmology	30	30	3
	Internal Medicine	90	90	9
	General Surgery	75	90	8
	Radiology	30	30	3
	Obstetrics & Gynecology	60	30	5
	Pediatrics	60	60	6
Total Hours and Units		450	420	44

Sixth Year				
Category	Subject	Hours		Units
		Theoretical	Practical	
	Internal Medicine	0	360	12
	General Surgery	0	360	12
	Obstetrics & Gynecology	0	300	10
	Pediatrics	0	300	10
Total Hours and Units		0	1320	44



**Departmental Curricula
for College of Science**

1987 1408
UNIVERSITY OF ANBAR

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Zoology	2	2	3	Specialty	Botany	2	2	3
Assistant	Analytic Chemistry	2	2	3	Assistant	Organic Chemistry	2	2	3
	Physics	2	2	3		Geology	2	2	3
	Mathematics	2		2		Biostatistics	2		2
	Computer Science 1	1	2	2		Computer Science2	1	2	2
	Safety &Biosecurity	1		1		Arabic Language	1		1
General	English Language	2		2	General	Human Rights	1		1
						Freedoms	1		1
Total Hours and Units		12	8	16	Total Hours and Units		12	8	16

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	General Microbiology 1	2	2	3	Specialty	General Microbiology 2	2	2	3
	Invertebrates	2	2	3		Parasitology	2	2	3
	Plant Anatomy	2	2	3		Plant Taxonomy	2	2	3
	Entomology	2	2	3		Insects Taxonomy	2	2	3
	Biochemistry 1	2	2	3		Plant groups	2	2	3
Assistant	Computer Science3	1	2	2	Assistant	Biochemistry 2	2	2	3
General	English Language	2		2	General	Computer Science 4	1	2	2
Total Hours and Units		13	12	18	Total Hours and Units		13	14	20

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Cell Biology	2	2	3	Specialty	Genetics	2	2	3
	Microbial Physiology	3	2	3		Soil and Water Microbiology	2	2	3
	Histology	2	2	3		Animal physiology	2	2	3
	Ecology	2	2	3		Environmental pollution	2	2	3
	Micro technique	2	2	3		Microbial Enzymes	2	2	3
	Plant Physiology	2	2	3		Immunology	2	2	3
General	English Language	2		2	Assistant	Research Method	1		1
Total Hours and Units		14	12	20	Total Hours and Units		13	12	18

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Bacterial Toxins	2	2	3	Specialty	Virology	2	2	3
	Food Microbiology	2	2	3		Chordates	2	2	3
	Biotechnology and Genetic Engineering	2	2	3		Industrial Microbiology	2	2	3
	Biodiversity and Evolution	2	2	3		Microbial Genetics	2	2	3
	Pathogenic Bacteria	2	2	3		Fungi Taxonomy	2	2	3
	Molecular Biology	2	2	3		Antibiotics	2	2	3
	Mycology	2	2	3		Endocrinology	2	2	3
	Research Project		2	1		Research Project		2	1
Total Hours and Units		14	16	22	General	English Language	2		2
Total Hours and Units		14	16	22	Total Hours and Units		16	16	24

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Human rights 1	1	2	1		Safety & biosecurity	1		1
	Computer 1	2	2	3		Computer 2	2	2	3
	Analytical Chemistry	2		3		Biostatistics	2	2	3
	Mathematics	2	2	2		Arabic language	1		1
	Principle of Biotechnology1	2	2	3		Principle of Biotechnology2	2	2	3
	Cell biology	2		3		Cell Physiology	2	2	3
	English language	2		2		Biophysics	2	2	3
Total Hours and Units		13	8	17	Total Hours and Units		12	10	17

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Biochemistry 1	2	2	3		Metabolism 2	2	2	3
	Environmental Biotechnology	2	2	3		Microbiological Physiology	2	2	3
	Microbiology 1	2	2	3		Medical microbiology	2	2	3
	Histology&Microscopic preparations	2	2	3		Biological control	2	2	3
	Computer Science 1	2	2	3		Computer Science 2	2	2	3
	English Language	2		2		Freedom&Democracy	2		2
Total Hours and Units		12	10	17	Total Hours and Units		12	10	17

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Molecular biology	2	2	3		Microbial genetic	2	2	3
	Virology	2	2	3		Immunology	2	2	3
	Research methodology	2		2		Mycology	2	2	3
	Animal physiology	2	2	3		Plant physiology	2	2	3
	Elective 1	2	2	3		Elective 2	2	2	3
	Biochemical techniques	2	2	3		Fermentations	2	2	3
	English language	2		2					
Total Hours and Units		14	10	19	Total Hours and Units		12	12	18

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Descriptive Analytical Chemistry	2	3	4	Specialty	Volumetric Analytical Chemistry	2	3	4
	Inorganic Chemistry1	3		3		Inorganic Chemistry2	3		2
	General Physics	2	2	3		Organic Chemistry1	2		2
	Computer Science 1	2	2	2	Assistant	Geology	2		2
	Human Rights	1		1		Computer Science2	2	2	2
	English Language	2		2		Arabic Language	1		1
Optional	Mathematics	2		2		Democracy	1		1
Total Hours and Units		14	7	17	Total Hours and Units		13	5	14

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Structural Inorganic Chemistry	2	2	3	Specialty	Main-Group Elements Chemistry	2	2	3
	Gravimetric Analysis	2	3	3.5		Separation Methods	2	2	3.5
	Thermodynamic Physical Chemistry	3	2	4		Equilibriums Physical Chemistry	2	3	4
	Organic Chemistry2	2	2	3		Organic Chemistry 3	2	2	3
Optional	pharmaceutical chemistry	2		2		Environmental Chemistry	2		2
	Calculus Equations 1	2		2		Assistant	Calculus Equations 2	2	2
Assistant	Computer Science3	1	2	2	Computer Science 4		2		2
Total Hours and Units		14	11	19.5	Total Hours and Units		14	11	19.5

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Coordination Chemistry 1	2	2	3	Specialty	Coordination Chemistry 2	2	2	3
	Kinetic & Photochemistry	3	2	4		Electric Chemistry	2	3	3
	Biochemistry 1	2	2	3		Biochemistry 2	2	2	3
	Organic Chemistry 4	2	2	3		Organic Chemistry 5	2	2	3
	Fundamentals of Industrial Chemistry	2		2		Applications of Industrial Chemistry	2		2
optional	Bio inorganic Chemistry	2		2	Optional	Research Method	2		2
Assistant	English Language	2		2					
Total Hours and Units		15	8	19	Total Hours and Units		12	9	16

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Spectroscopy Instrumental Analysis	3	2	4	Specialty	Electrical Instrumental Analysis	2	3	4
	Fundamental of Polymers	2	2	3		Spectrum Chemistry	2		3
	Quantum Chemistry	3		2		Petrochemical	2	2	3
	Identification of Organic Spectrum 1	1	3	2.5		Identification of Organic Spectrum 2	2.5	2	2.5
	Biochemistry 3	2	2	3		Biochemistry 4	3	2	3
Optional	Metallic Organic Chemistry	2		2	Optional	Research Project		3	3
					Optional	Anhydrous solvent chemistry	2		2
					Assistant	English Language	2		2
Total Hours and Units		13	9	16.5	Total Hours and Units		15.5	12	22.5

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Practical Physics I		6	3	Specialty	Practical Physics 2		6	3
	Mechanics I	3		3		Magnetism	3		3
	Electricity	3		3		Mechanics 2	2		3
Optional	Geophysics	2		2	Optional	General chemistry	2	2	2
Assistant	Mathematics I	2		2	Assistant	Mathematics 2	2		2
	Programing Language I	2	2	2		Programing Language 2	2	2	2
	Human rights	1		1		Freedom & Democracy	1		1
	English Language	2		2		Arabic Language	2		2
Total Hours and Units		15	8	18	Total Hours and Units		14	10	18

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Practical Physics 1		6	3	Specialty	Practical Physics 2		6	3
	Analytical Mechanics1	2		2		Analytical Mechanics 2	2		2
	Electronics 1	3		3		Electronics 2	3		3
	Thermodynamics 1	3		3		Thermodynamics2	3		3
Optional	Numerical Analysis 1	2		2	Optional	Quantum Mechanics1	2		2
Assistant	Mathematics 3	2		2	Optional	Modern Physics	2		2
	Programing language1	2	2	2	Assistant	Mathematics 4	2		2
	English Language	2		2	Assistant	Programing Language 2	2	2	2
Total Hours and Units		16	8	19	Total Hours and Units		16	8	19

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Practical Physics 1		6	3	Specialty	Practical Physics 2		6	3
	Quantum Mechanics 2	2		2		Quantum Mechanics3	2		2
	Optics1	3		3		optics 2	3		3
	Laser Physics 1	2		2		Laser Physics 2	2		2
	Mathematical Physics 1	3		3		Mathematical Physics 2	3		3
Optional	Material science	2		2	Optional	Statistical Mechanics	2		2
Assistant	Semiconductors 1	2		2	Assistant	Semiconductors 2	2		2
	English Language 3	2		2		Modeling&Simulation	2		2
Total Hours and Units		16	6	19	Total Hours and Units		16	6	19

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Practical Physics 1		6	3	Specialty	Practical Physics 2		6	3
	Solid State Physics 1	3		3		Solid State Physics2	3		3
	Nuclear Physics 1	3		3		Nuclear Physics 2	3		3
	Electromagnetic theory 1	2		2		Electromagnetic theory 2	2		2
	Nanoscience 1	2		2		Nanoscience 2	2		2
Optional	Solar cells	2		2	Optional	Research Project	2		2
	Nuclear spectrum	2		2		Medical physics	2		2
Assistant	English Language	2		2	Assistant	Elementary particles	2		2
Total Hours and Units		16	6	19	Total Hours and Units		16	6	19

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Calculus1	4		4	Specialty	Calculus2	4		4
	Linear Algebra1	4		4		Linear Algebra2	4		4
	Foundation of Mathematics1	4		4		Foundation of Mathematics2	4		4
Assistant	General Physics1	2	2	3	Assistant	General Physics2	2	2	3
	Computer Science1	2	2	3		Computer Science2	2	2	3
	Human Rights	1		1		Freedoms&Democracy	1		1
	Arabic Language	1		1		English language1	2		2
Total Hours and Units		18	4	20	Total Hours and Units		19	4	21

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Advanced Calculus1	4		4	Specialty	Advanced Calculus2	4		4
	Group Theory1	4		4		Group Theory2	4		4
	Ordinary Differential Equation1	4		4		Ordinary Differential Equation2	4		4
	Numerical Analysis1	2	2	3		Numerical Analysis2	2	2	3
Assistant	Advanced Computer1	2	2	3	Assistant	Vector Analysis	2		2
	Research method	1		1		Advanced Computer2	2	2	3
	English language 2	2		2					
Total Hours and Units		19	4	21	Total Hours and Units		18	4	20

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Mathematical Analysis1	3		3	Specialty	Mathematical Analysis2	3		3
	Partial Differential Equation1	3		3		Partial Differential Equation2	3		3
	Ring Theory1	3		3		Ring Theory2	3		3
	Graph Theory1	3		3		Graph Theory2	3		3
	Principles of Statistics and Probability1	3		3		Principles of Statistics and Probability2	3		3
	Number Theory	3		3	Assistant	English language3	2		2
Total Hours and Units		18		18	Total Hours and Units		17		17

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Topology1	3		3	Specialty	Topology2	3		3
	Complex Analysis1	3		3		Complex Analysis2	3		3
	Mathematical Statistics1	3		3		Mathematical Statistics2	3		3
	Functional Analysis1	3		3		Functional Analysis2	3		3
Assistant	English language4	2		2		Operations Research	3		3
						Project	2		2
Total Hours and Units		14		14	Total Hours and Units		17		17

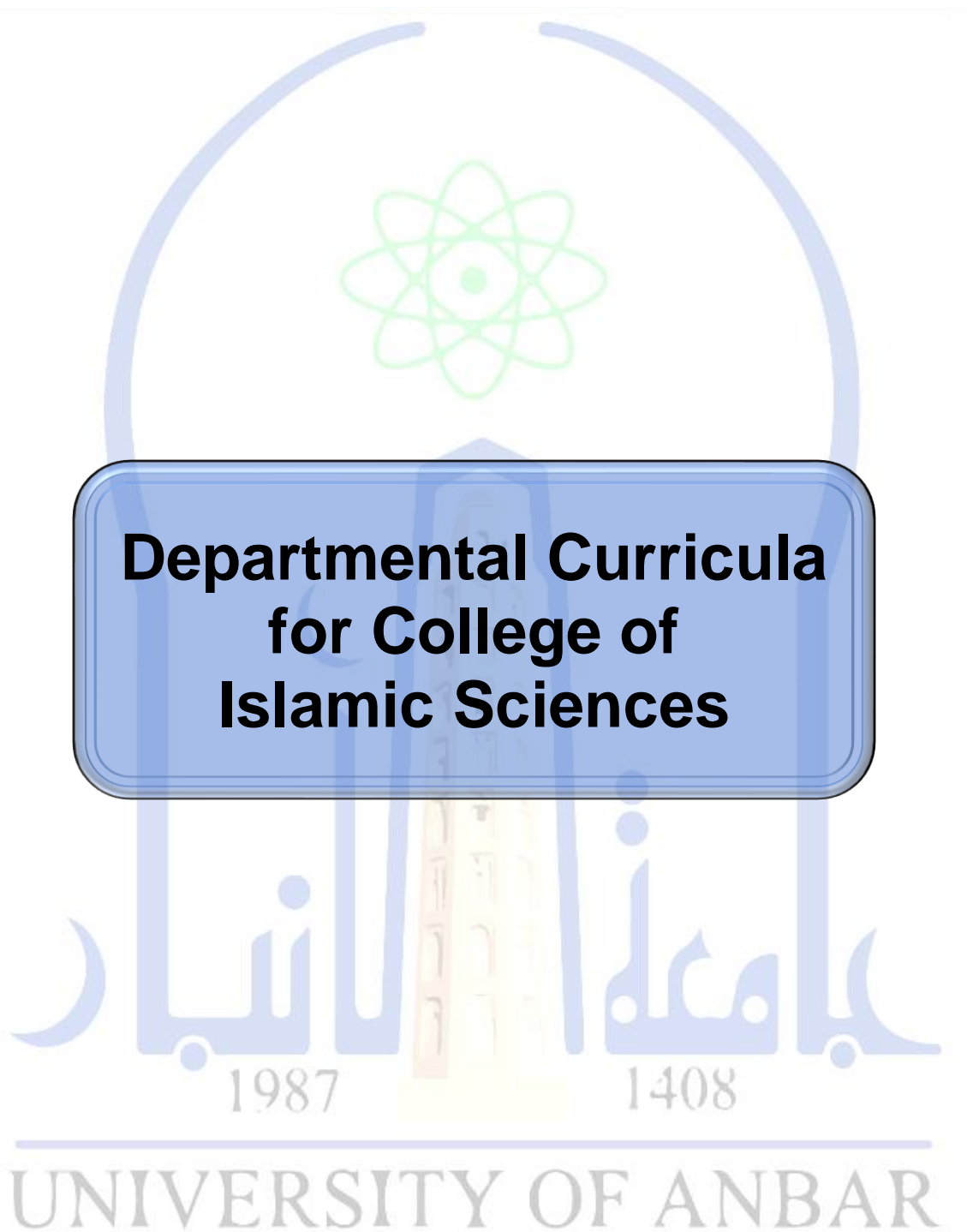
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First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Physical Geology1	2	3	3.5	Specialty	Physical Geology-2	2	3	3.5
Assistant	Biology	2	3	3.5	Assistant	Historical Geology	2	3	3.5
	Chemistry -1	2	3	3.5		Chemistry -2	2	3	3.5
	Physics -1	2	3	3.5		Physics -2	2	3	3.5
	Arabic Language	2		2		English Language	2		2
	Human right	2		2		Freedom&Democracy	2		2
	Mathematic	2		2		Geological Statistics	2		2
Total Hours and Units		14	12	20	Total Hours and Units		16	14	23

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Macro Paleontology	2	3	3.5	Specialty	Sedimentary Rocks	2	3	3.5
	Crystallography	2	3	3.5		Geomorphology	2	3	3.5
	Stratigraphy	2	3	3.5		Petrology	2	3	3.5
	Mineralogy	2	3	3.5		Hydrology	2	3	3.5
	Remote sensing	2	3	3.5		Structural Geology	2	3	3.5
	Sedimentology	2	3	3.5		Geographic Information System (GIS)	2	3	3.5
Total Hours and Units		12	18	21	Assistant	English Language	2		2
Total Hours and Units		12	18	21	Total Hours and Units		14	18	23

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Physics of the earth	2	3	3.5	Specialty	Gravity & Magnetic Method	2	3	3.5
	Petroleum Geology	2	3	3.5		Ore Minerals	2		2
	Geochemistry	2	3	3.5		Mechanic Rock	2	3	3.5
	Geology of Iraq	2		2		Optical Mineralogy	2	3	3.5
	Engineering Geology	2	3	3.5		Research Method	2		2
	Field Geology	2	3	3.5		Micro paleontology	2	3	3.5
Assistant	English Language	2		2	Field Survey			4	
Total Hours and Units		14	15	21.5	Total Hours and Units		12	12	22

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Hydrogeology	2	3	3.5	Specialty	Exploration Geochemistry	2	3	3.5
	Electric Method	2	3	3.5		Seismic Investigation	2	3	3.5
	Environmental Geology	2		2		Western desert geology	2	3	3.5
	Quaternary	2	3	3.5		Research project	2		2
	Geotectonic	2		2	Optional	Well Logging	2	3	3.5
	Igneous & Metamorphic Rocks	2	3	3.5	Assistant	English Language	2		2
Total Hours and Units		12	12	18	Total Hours and Units		12	12	18



**Departmental Curricula
for College of
Islamic Sciences**

1987 1408
UNIVERSITY OF ANBAR

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Grammar	3		3		Grammar	3		3
	History of Quran	3		3		Morphology	3	0	3
	Memorizing&Reciting	2	1	3		Memorizing&Reciting	2	1	3
	Ethic of Quran	2		2		An approach to Tafseer	2		2
	Educational psychology	2		2		Foundation of Education	2		2
	Human rights	2		2		Democracy	2		2
	Computer science	1	2	3		Computer science	1	2	3
	English Language	2		2		Prophet Biography	2	1	2
Total Hours and Units		17	3	20	Total Hours and Units		17	4	20

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Grammar	3		3		Grammar	3		3
	Quran sciences	3		3		Quran sciences	3		3
	Memorizing&Reciting	2	1	3		Memorizing&Reciting	2	1	3
	Methods of Mufscreen	2		2		Methods of Mufscreen	2		2
	Foundation of Tafseer	2		2		Rules of Tafseer	2		2
	Quran Eloquence	2		2		Quran Eloquence	2		2
	Development psychology	2		2		logics	2		2
	English Language	2		2		Islamic jurisprudence	3		3
	Computer science	1	2	3		Computer science	1	2	3
Total Hours and Units		19	3	22	Total Hours and Units		20	3	23

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Grammar	2		2		Grammar	3		3
	Hadith sciences	2		2		Hadith sciences	2		2
	Islamic jurisprudence	2		2		Interpreting Ahkam Ayah	3		3
	Doctrines	2		2		Doctrines	2		2
	Foundations of Jurisprudence	2		2		Foundations of Jurisprudence	2		2
	Methods of research	2		2		Methods of research	2		2
	Scientific miracles in Quran	2		2		Scientific miracles in Quran	2		2
	Methods of Education	2		2		Methods of Teaching	2		2
	English Language	2		2					
Total Hours and Units		18		18	Total Hours and Units		18		18

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Grammar	2		2		Graduation project	4		4
	Objective interpretation	2		2		Scientific application	12		12
	Analytical interpretation	2		2					
	Quranic story	2		2					
	Measurement and evaluation	2		2					
	Educational application	2		2					
	Contemporary Quranic Study	2		2					
	English Language	2		2					
	Graduation research	2		2					
Total Hours and Units		18		18	Total Hours and Units		16		16

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	History of hadith documentation	3		3		Islamic jurisprudence 2	2		2
	Hadith term	3		3		Computer	2		2
	Memorizing&Reciting	2		2		Memorizing Hadith	2		2
	Quran sciences	2		2		Library	2		2
	English language	2		2		Hadith Science	3		3
	Islamic jurisprudence 1	2		2		Principals of Rijal science	3		3
	Grammar	2		2		Human rights	2		2
	Methods of research	2		2		Morphology	2		2
Total Hours and Units		18		18	Total Hours and Units		18		18

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Methods of Muhadtheen	3		3		Foundations of Tafseer	2		2
	Odd hadith science	3		3		Grammar	2		2
	Hadith of personal rules	2		2		Hadith Eloquence	2		2
	Prophet biography	3		3		Memorizing Quran	2		2
	Foundations of jurisprudence	2		2		Ahel albeit Biography	2		2
	English language	2		2		Doctrine	2		2
	Computer Science	2		2		Rejal Science	3		3
	Methods of interpreting hadith	2		2		Principals of hadith documentation	3		3
Total Hours and Units		19		19	Total Hours and Units		18		18

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Strange Hadith	3		3		Rijal Science	3		3
	Chains of transmission	3		3		Reasons of the difference among Muhadtheen	2		2
	Methods of teaching	2		2		Islamic Systems	2		2
	Grammar	2		2		Doctrine	2		2
	Educational psychology	2		2		Memorizing Quran and hadith	2		2
	English language	2		2		Analytical Hadith	2		2
	Methods of Muhadtheen	3		3		Criticism of Hadith text	2		2
	Analytical interpretation	3		3		Religions	2		2
Total Hours and Units		20		20	Total Hours and Units		17		17

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Orientalists and hadith	2		2		Jurisprudence of Hadith 2	2		2
	Grammar	2		2		Elal Science 2	3		3
	English language	2		2		Project of research	2		2
	Elal Science 1	2		2		Application & performance	2		2
	Jareh & Taadeel	2		2		Science of Tabaqat	2		2
	Modern schools	3		3		Reasons of hadith reporting	3		3
	Jurisprudence of Hadith 1	2		2					
Total Hours and Units		17		17	Total Hours and Units		14		14

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Greek Philosophy	2		2		Memorizing & Reciting	2	1	3
	An Approach to study Aqida	2		2		An Approach to study Islamic thoughts	2		2
	Sufiism and Ethics	2		2		Placed Religions	2		2
	Grammar 1	2		2		grammar 2	2		2
	Jurisprudence (worship)	3		3		Educational Psychology	2		2
	Democracy	2		2		Quran Sciences	2		2
	Computer Sciences	2	1	3		Hadith Sciences	2		2
	English Language	2		2		Prophet Biography	3		3
Total Hours and Units		18		18	Total Hours and Units		18		18

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Principals of Interpreting Quran	2		2		Grammar & Morphology	3		3
	Grammar 3	2		2		Logics	3		3
	Theology	3		3		Ahel Albait Biography	3		3
	Logics	2		2		Eloquence	2		2
	Islamic Systems	2		2		Computer Sciences	2	1	3
	Foundations of Daawa	2		2		Development psychology	2		2
	Hadith of doctrine	3		3		Religions	2		2
	English language	2		2					
Total Hours and Units		18		18	Total Hours and Units		18		18

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Memorizing & Reciting	2	1	3		Analytical interpretation	3		3
	Methods of Teaching	2	1	3		Schools of theology	3		3
	Islamic Thought	3		3		Grammar	2		2
	Analytical Hadith	2		2		Islamic philosophy	3		3
	Theology	3		3		Foundations of jurisprudence	2		2
	Jurisprudence	3		3		English language	2		2
	Eloquence	2		2		Method of research	2	1	3
Total Hours and Units		19	2	19	Total Hours and Units		18	1	18

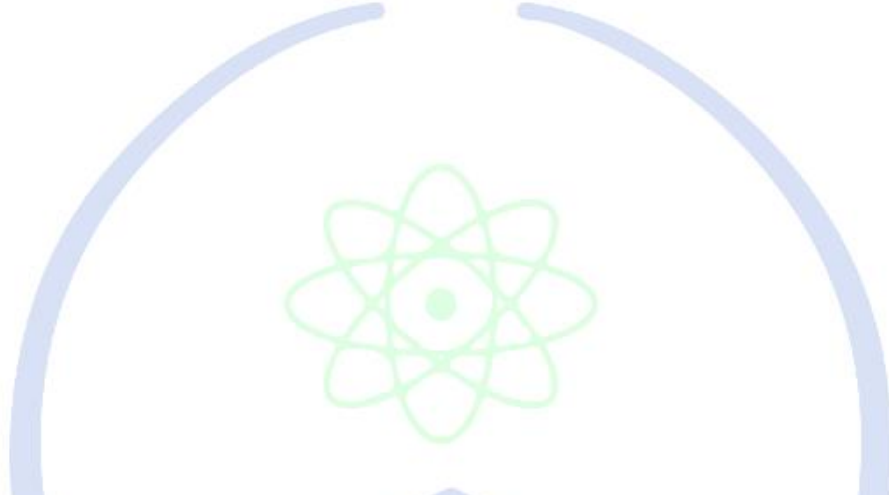
Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Foundations of Jurisprudence	3		3		Applying & performance e	4		4
	Theology	3		3		Project of research	2		2
	Methods of Muhadtheen	2		2		Methods of Mutaklmeeen	3		3
	Grammar	2		2		Interpreting Aqida Ayah	3		3
	Orientation	3		3		Religious Sociology	2		2
	Contemporary Theology	2		2					
	English language	2		2					
Total Hours and Units		17		17	Total Hours and Units		14		14

First Year									
Semester I					Semester II				
Category	Subject	Hours			Category	Subject	Hours		Units
		Theoretical	Practical	Units			Theoretical	Practical	
	Jurisprudence (worship) 1	3		3		Jurisprudence (worship) 2	3		3
	Approach to shariah	3		3		Grammar & Morphology	2		2
	Quran science	2		2		Foundations of jurisprudence	4		4
	Memorizing& reciting	2		2		Rights & freedoms	2		2
	Grammar & Morphology	4		4		English language	2		2
	Approach to study law1	2		2		Computer science	2		2
	Library	2		2		Approach to study law 2	1	1	2
						logics	2		2
Total Hours and Units		18		18	Total Hours and Units		19	1	19

Second Year									
Semester I					Semester II				
Category	Subject	Hours			Category	Subject	Hours		Units
		Theoretical	Practical	Units			Theoretical	Practical	
	Jurisprudence of personal rules	4		3		Jurisprudence of personal rules	4		4
	Foundations of Fiqh1	3		3		Foundations of Fiqh2	3		3
	Memorizing Quran	2		2		Hadith science	2		2
	Theology	2		2		Theology	2		2
	grammar	3		4		Grammar 2	3		3
	Computer science	1	1	2		Prophet Biography 2	2		2
	English language	2		2		Educational psychology	2		2
	Prophet biography	2		2		Logics	2		2
Total Hours and Units		19	1	20	Total Hours and Units		20		20

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Jurisprudence	3		3		Jurisprudence	3		3
	Foundations of Jurisprudence	3		3		Foundations of Jurisprudence	3		3
	Ayat Al ahkam interpretation	2		2		Ahadith Al Ahkam	2		2
	Grammar	3		4		Grammar	3		3
	Jurisprudence Rules	2		2		Economy	3		3
	Eloquence	3		2		Methods of teaching	2		2
	Principles of Education	3		2		Shariah	2		2
	Islamic Systems	2		2		English language	2		2
	Memorizing Quran	1		1		Principles of Daawa	1		1
Total Hours and Units		21		21	Total Hours and Units		20		20

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Comparative jurisprudence	3		3		Comparative jurisprudence	3		3
	Foundations of Jurisprudence	3		3		Foundations of Jurisprudence	3		3
	Hadith Documentation	2		2		Islamic comparative jurisprudence	2		2
	Grammar	3		3		Pleadings	2		2
	Jurisprudence of felony	4		4		Application & performance	4		4
	Purpose of Shariah	2		2		Grammar	3		3
	Measurement and Evaluation	2		2		Graduation research	1		1
	Civil pleading	2		2		English language	2		2
						Memorizing Quran	1		1
Total Hours and Units		21		21	Total Hours and Units		21		21



**Departmental Curricula
for College of
Applied Sciences - Heet**

1987 1408
UNIVERSITY OF ANBAR

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Fundamental of analytical chemistry	2	2	3	Specialty	Quantitative analytical chemistry	2	2	3
	Inorganic chemistry1	2		2		Inorganic chemistry2	2		2
Assistant	General Physics	2	2	3	Assistant	General Biology	2	2	3
	Mathematics	2		2		Statistics	2		2
	Safety & Chemical Security	1		1	General	Human rights	1		1
General	Arabic language	2		2		English language	2		2
	Computer science1					Computer science2			
Total Hours and Units		12	6	15	Total Hours and Units		12	6	15

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Gravimetric Analytical Chemistry	2	2	3	Specialty	Applied Analytical Chemistry	2	2	3
	Inorganic Chemistry (Essential Elements)	2	2	3		Physical Chemistry2	2	2	3
	Physical Chemistry I	2	2	3		Organic Chemistry2	2	2	3
	Organic Chemistry I	2	2	3	Assistant	Nanotechnology	2		2
Assistant	Liner Algebra	2		2	General	Freedom	1		1
General	English language1	2		2		Computer science4	1	2	2
	Computer science3	1	2	2					
Total Hours and Units		14	10	19	Total Hours and Units		11	8	15

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Stereo Chemistry	2		2	Specialty	Mechanism of Chemical Reactions	3		3
	Coordination Inorganic Chemistry	2	2	3		Metabolism	2		2
	Physical Chemistry (Kinetic)	2	2	3		Food Chemistry	2	2	3
	Chemistry of Heterocyclic Compounds	2		2		Environmental Chemistry	2		3
	Basic of Biochemistry	2	2	3		Natural Products	2		2
	Industrial Chemistry	3		3		Polymer Chemistry	2	2	3
General	English language	2		2	General	Methodology	2		2
Total Hours and Units		15	6	18	Total Hours and Units		15	4	17

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Quantum Chemistry	2		2	Specialty	Spectroscopy	2		2
	Organic Identification 1	2	4	4		Drug Industries	2	2	3
	Chemistry of Petrol	2		2		Organic Identification2	2	4	4
	Clinical Chemistry	2	2	3		Instrumental Analysis 2	2	3	3
	Instrumental Analysis1	2	3	3		Research Project		4	2
	Research Project		4	2		Assistant	Selective Topics	2	
Assistant	Selective Topics	2		2	General	English language4	2		2
Total Hours and Units		12	13	18	Total Hours and Units		12	13	18

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Mechanics	2	4	4	Specialty	Geometric optics	2	3	3
	Material properties	2		2		Electricity & Magnetism	2	3	3
	Biology 1	2	3	3		Biology2	2	3	3
Assistant	General Chemistry	2	3	3	Assistant	Introduction of Biophysics	2	3	3
	Mathematics 1	3		3		Mathematics 2	3		3
General	Computer Science1	1	2	2	General	Organic Chemistry	2	3	3
	Arabic Language	2		2		Chemical Safety & Security	2		2
	Human Rights	2		2		English Language	2		2
Total Hours and Units		16	12	21	Total Hours and Units		17	15	22

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Medical Physics 1	2		3	Specialty	Medical Physics 2	2		3
	Solid State Physics1	3		3		Solid State Physics2	3		3
	Microbiology 1	2	3	3		Microbiology2	2	3	3
	Molecular Genetics	2	3	3		Healthy Culture	2		2
Assistant	Linear Algebra	3		3	Assistant	Biochemistry	2	3	3
General	Computer Science2	1	2	2	General	Differential Equations	3		3
	English Language	2		2		Freedom	2		2
Total Hours and Units		15	8	19	Total Hours and Units		16	6	19

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Electronics1	2	3	3	Specialty	Electronics2	2	3	3
	Histology	2	3	3		Physiology	2	3	3
	Devices1	2	3	3		Devices2	2	3	3
	Bioinformatics1	2	3	3		Bioinformatics2	2	3	3
	Nervous System	2	3	3		Immunology	2	3	3
	Medical Laboratory1	2	3	3		Medical Laboratory2	2	3	3
	Design & Analysis of Experiments1	2	3	3		Design & Analysis of Experiments2	2	3	3
General	Research Methodology	2		2					
	English Language	2		2					
Total Hours and Units		18	21	25	Total Hours and Units		14	21	21

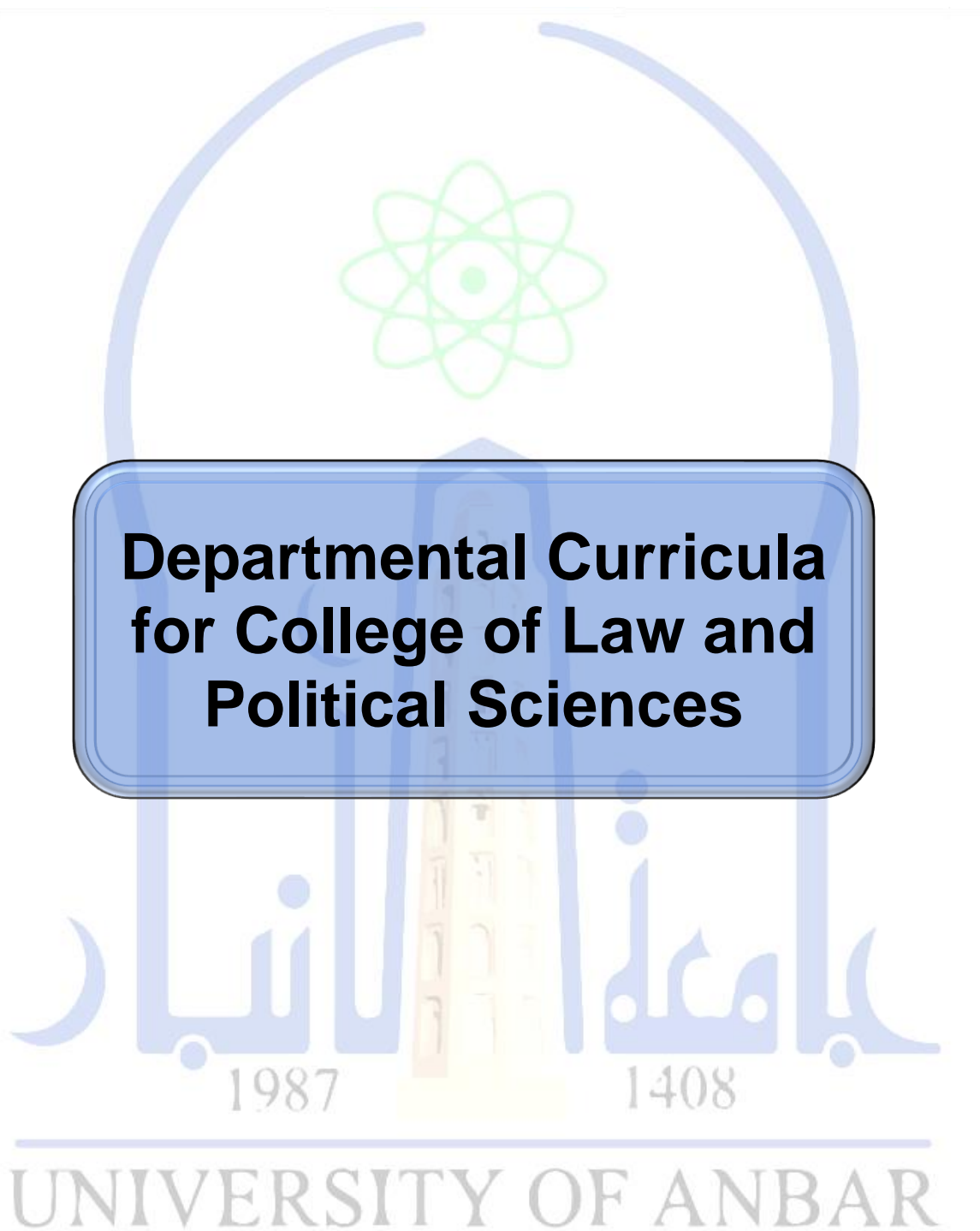
Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Metabolism & Biophysics	2		2	Specialty	Biophysics	2		2
	Molecular Biology2	2	3	3		Molecular Biology1	2	3	3
	Modern Physics 2	3		3		Modern Physics1	3		3
	Bacteriological Analysis (Optional)	2	3	3		Physical Therapy	2	3	3
	Radiographic Imaging	2		2		Clinical Chemistry	2	3	3
General	Graduation Project		4	2	General	Graduation Project		4	2
	English Language	2		2					
Total Hours and Units		13	10	17	Total Hours and Units				

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Biology 1	1		1	Specialty	Biology 2	2	2	3
	General Chemistry	2		2		Geology 2	2	2	3
	Geology 1	1	2	2		Microbiology 1	2	2	3
Support	Mathematics 1	2		3	Support	Chemical safety & security	1		1
	General Physics	2	2	3		Mathematics 2	2		2
General	Human Rights	2	2	3	General	English language 1	2		2
	Arabic Language	2	2	3		Computer science 2	1	2	2
	Computer science 1	2	2	3					
Total Hours and Units		17	10	20	Total Hours and Units		12	8	16

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Inorganic Chemistry	2	2	3	Specialty	Climatology	2		2
	Biometrics	2		2		Hydrology 2	2	2	3
	Principles of Environmental Science 1	2	2	3		Principles of Environmental Science 2	2	2	3
	Environmental Chemistry 1	2	2	3		Environmental Chemistry 2	2	2	3
	Hydrology 1	2	2	3		Microbiology 2	2	2	3
Assistant	Linear Algebra	2		2	General	Freedom	2		2
General	Computer science 3	1	2	2		English language 2	2		2
Total Hours and Units		13	10	18	Total Hours and Units		14	8	18

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Air and Water Pollution	2	2	3	Specialty	Soil Pollution	2	2	3
	Solid waste management and treatment I	2		2		Solid waste management and treatment2	2		2
	Sewage water treatment	2		2		Food Pollution	2	2	3
	Automated analysis technologies I	2	2	3		Automated analysis technologies 2	2	2	3
	Satisfactory analysis 1	2	2	3		Satisfactory analysis 2	2	2	3
	Biochemistry	2	2	3		Liquidation & water treatment	2		2
	Environmental Physics	2		2	Assistant	Research Methodology	2		2
	Plant anatomy	2	2	3	General	English Language3	2		2
Total Hours and Units		16	10	21	Total Hours and Units		18	10	23

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
Specialty	Graduation Project		4	2	Specialty	Graduation Project		4	2
	Industrial chemistry	2	2	3		Toxicology	2		2
	Remote Sensing	2		2		Environmental Planning & Economics	2		2
	Environmental Safety & Health	2		2		Environmental Isotopes	2		2
	Renewable Energy	2		2		Environmental Engineering	2		2
	Environmental Laws and Regulation	2		2		Environmental nanotechnologies	2		2
	Desertification	2		2		geographic information systems	2		2
	Molecular Biology	2		2	General	English Language4	2		2
Total Hours and Units		14	6	17	Total Hours and Units		14	4	16



**Departmental Curricula
for College of Law and
Political Sciences**

1987 1408
UNIVERSITY OF ANBAR

First Year				
Category	Subject	Hours		Units
		Theoretical	Practical	
	Constitutional			3
	History of law			2
	The entrance of the law			3
	Crime & punishment			2
	Islamic law			2
	Democracy			2
	Computer Science			1
	English language			2
	Arabic language			1
Total Hours and Units				18

Second Year				
Category	Subject	Hours		Units
		Theoretical	Practical	
	Commitments			4
	General penalties			3
	Administrative Law			3
	Political systems			1
	Public Finance			2
	Personal status and inheritance			3
	Commercial law			2
	English language			2
	Computer Science			1
Total Hours and Units				21

Third Year				
Category	Subject	Hours		Units
		Theoretical	Practical	
	Named contracts			3
	Special penalties			3
	General International law			3
	Commercial Companies			1
	Civil pleadings and proofs			3
	Administrative district			2
	Origins of trials			2
	English language			2
	Search Assets			1
	Virtual tribunal			1
Total Hours and Units				21

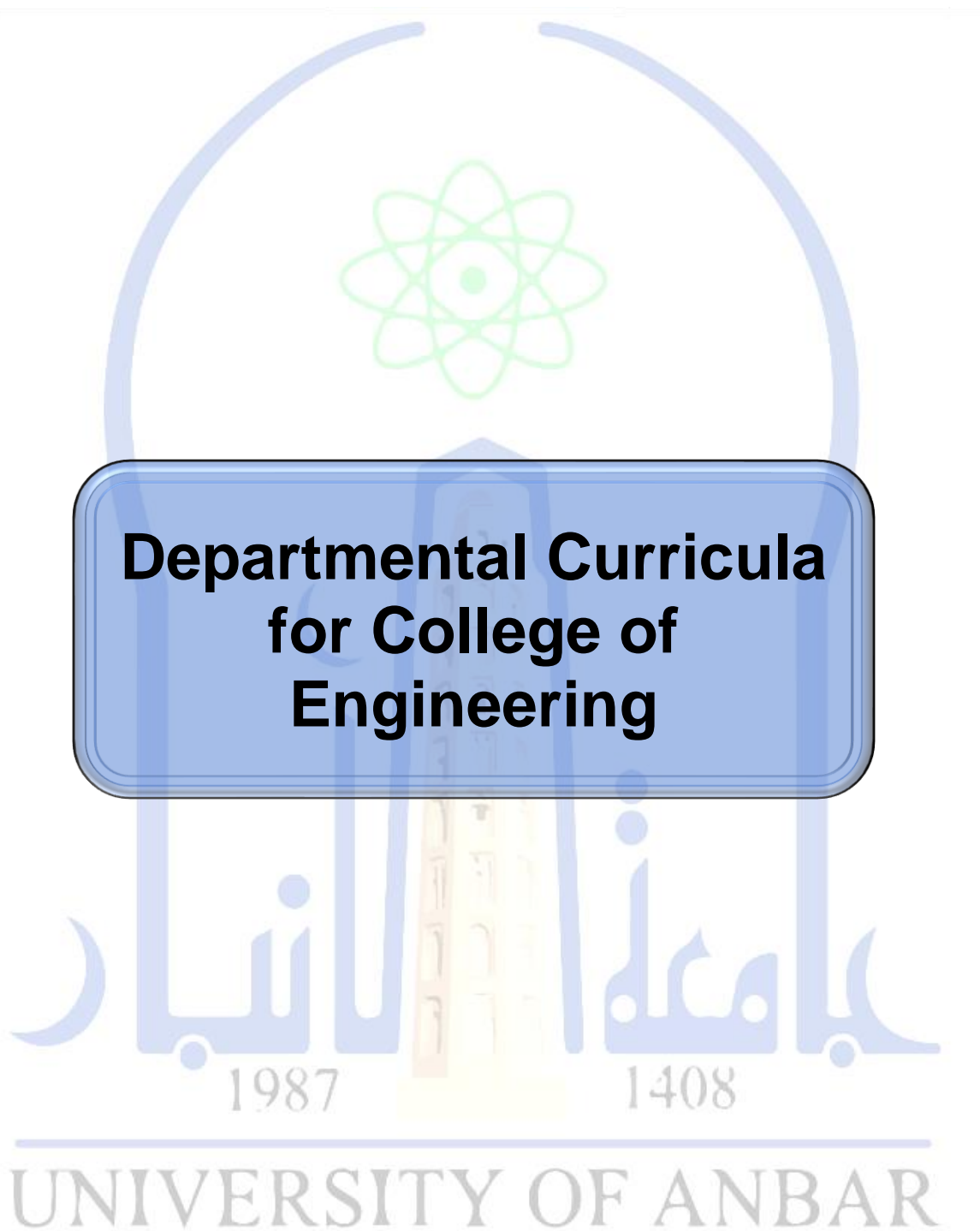
Fourth Year				
Category	Subject	Hours		Units
		Theoretical	Practical	
	Rights in kind			3
	Work & Guarantee			2
	International law Private			3
	Commercial papers			2
	Humane international			1
	Implementation of Organizations			1
	Principles of Origins of trials Jurisprudence			2
	Criminal investigation			1
	English language			2
	Pediatric medicine and Graduation Project			1
Total Hours and Units				19

First Year				
Category	Subject	Hours		Units
		Theoretical	Practical	
	Introduction to politics			3
	Computer Science			1
	human rights			2
	Principles of Economics			2
	English language			2
	Arabic language			2
	political systems			3
	Introduction to the study of law			2
	History of international relations			2
Total Hours and Units				19

Second Year				
Category	Subject	Hours		Units
		Theoretical	Practical	
	Arab political systems			3
	English language			2
	international law			2
	Ancient and Medieval Thought			3
	principles of international relations			3
	Political Sociology			2
	Contemporary Iraq			2
	local governments			2
	Computer Science			1
Total Hours and Units				20

Third Year				
Category	Subject	Hours		Units
		Theoretical	Practical	
	Asia & Africa			3
	International organizations			2
	English language			2
	Principles of Public Policy			3
	International Economic Relations			2
	modern western thought			3
	Introduction to the study of strategy			3
	Arab Islamic thought			3
Total Hours and Units				21

Fourth Year				
Category	Subject	Hours		Units
		Theoretical	Practical	
	Political systems in Europe & the Americas			2
	Political parties and public opinion			2
	Research Methodology			2
	English language			2
	Foreign Policy			3
	Contemporary Western thought			3
	Islamic political thought			3
	regional political systems			2
	Diplomacy			2
Total Hours and Units				21



**Departmental Curricula
for College of
Engineering**

1987 1408
UNIVERSITY OF ANBAR

First Year											
Semester I					Semester II						
Category	Subject	Hours			Units	Category	Subject	Hours			Units
		Theoretical	Tutorial	Practical				Theoretical	Tutorial	Practical	
College requirement	Calculus I	3	1		3	Department requirement	Applied Physics	3			3
	Physics	3		3	4		Construction Materials	2	1	3	3
	Chemistry	3		3	4		Calculus 2	3	1		3
	Fundamentals of Electrical Engineering	2	1	2	2	College requirement	Engineering Mechanics (Static)	4	1		3
	Computer Science	2	1	3	3		Engineering Drawing	3	2	3	3
University requirement	English Language I	2			2	University requirement	Arabic Language	2			2
	Human Rights	1			1		Democracy	1			1
Total Hours and Units		16	3	11	19	Total Hours and Units		18	5	6	19

Second Year											
Semester I					Semester II						
Category	Subject	Hours			Units	Category	Subject	Hours			Units
		Theoretical	Tutorial	Practical				Theoretical	Tutorial	Practical	
Department requirement	Engineering Surveying 1	2	1	3	3	Department requirement	Engineering Surveying 2	2	1	3	3
	Strength of Materials 1	3	1		3		Strength of Materials 2	2	1	3	3
	Concrete Properties	2	1	3	3		Building Construction	2	1	2	3
	Dynamics	3	1		3		Engineering Geology	3			3
College requirement	Calculus 3	3	1		3		Fluid Mechanics	2	1	3	3
University requirement	English Language 2	2			2	College requirement	Calculus 4	3	1		3
Total Hours and Units		17	5	6	17	Total Hours and Units		14	5	11	18

Third Year											
Semester I					Semester II						
Category	Subject	Hours			Units	Category	Subject	Hours			Units
		Theoretical	Tutorial	Practical				Theoretical	Tutorial	Practical	
Department requirement	Structure 1	3	1		3	Department requirement	Structure 1	3	1		3
	Reinforced concrete 1	3	1		3		Reinforced concrete 2	3	1		3
	Construction Management	3			3		Engineering economy	3			3
	Soil Mechanics1	2	1	3	3		Soil Mechanics2	2	1	3	3
	Hydrology	3	1		3		Traffic Engineering	3	1		3
College requirement	Engineering Statistics	3			3	College requirement	Engineering Numerical methods	2	1	3	3
University requirement	English language 3	2			2						
Total Hours and Units		19	4	3	20	Total Hours and Units		17	5	6	18

Fourth Year											
Semester I					Semester II						
Category	Subject	Hours			Units	Category	Subject	Hours			Units
		Theoretical	Tutorial	Practical				Theoretical	Tutorial	Practical	
Department requirement	Hydraulic Structures	3			3	Department requirement	Sanitary and Environmental Engineering	3	1	2	4
	Computer Applications in civil engineering	1		3	2		Methods of Construction & Estimation	3	1		3
	Highway Engineering	2	2	3	3		Steel Structures	3	1		3
	Foundation Engineerin1	3	1		3		CE Elective Class2	2	2		2
	CE Elective Class1	2	1		2		CE Elective Class3	2	2		2
College requirement	Final Year ProjectI	2		3	3	College requirement	Final Year Project2	2		3	3
University requirement	English Language4	2			2	University requirement	Ethics & Leadership Skills	2			2
Total Hours and Units		15	4	9	18	Total Hours and Units		17	7	5	19

First Year											
Semester I						Semester II					
Category	Subject	Hours			Units	Category	Subject	Hours			Units
		Theoretical	Tutorial	Practical				Theoretical	Tutorial	Practical	
College requirement	Calculus-I	3	1		3	Department requirement	Applied physics	3		3	4
	Physics	3		3	4		Principles of Manufacturing Process	2	1	2	3
	Computer Science	2	1	3	3	College requirement	Engineering Drawing	2	2	3	3
	Chemistry	3		3	4		Calculus 2	3	1		3
	Fundamentals of Electrical Engineering	2	1	2	3		Engineering Mechanics (Static)	3	1		3
University requirement	English language1	2			2	University requirement	Arabic language	2			2
	Human rights	1			1		Democracy	1			1
Total Hours and Units		16	3	11	19	Total Hours and Units		16	5	8	19

Second Year											
Semester I						Semester II					
Category	Subject	Hours			Units	Category	Subject	Hours			Units
		Theoretical	Tutorial	Practical				Theoretical	Tutorial	Practical	
Department requirement	Fluid Mechanics1	2	1	2	3	Department requirement	Fluid Mechanics2	2	1	2	3
	Strength of Materials 1	2	1	2	3		Strength of Materials 2	2	1	2	3
	Thermodynamics 1	2	1	2	3		Thermodynamic2	2	1	2	3
	Engineering Mechanics (Dynamics)	2	2		2		Engineering Metallurgy	2	2	2	3
	Computer Programming	2		2	3		Electrical Machines	2		2	3
	Mechanical drawing	2	1	2	3	College requirement	Calculus 4	3	1		3
College requirement	Calculus 3	3	1		3		English Language2	2			2
Total Hours and Units		15	7	10	20	Total Hours and Units		15	6	10	20

Third Year											
Semester I					Semester II						
Category	Subject	Hours			Units	Category	Subject	Hours			Units
		Theoretical	Tutorial	Practical				Theoretical	Tutorial	Practical	
Department requirement	Engineering Analysis	3	1	-	3	Department requirement	Heat Transfer2	2	1	2	3
	Heat Transfer1	2	1	2	3		Gas Dynamics	3	1		3
	Theory of Machines1	2	1	2	3		Theory of Machines 2	2	1	2	3
	Internal Combustion Engines	2	2	2	3		Manufacturing Processes	3	1		3
	Research Methodology	1			1		Engineering Economy	3			3
College requirement	Engineering Statistics	3			3		Industrial Engineering & Safety	2	1		2
	University requirement	Ethics & leadership skills	2				2	College requirement	Engineering Numerical Methods	2	1
English Language3		2			2						
Total Hours and Units		17	5	6	20	Total Hours and Units		17	6	7	20

Fourth Year											
Semester I					Semester II						
Category	Subject	Hours			Units	Category	Subject	Hours			Units
		Theoretical	Tutorial	Practical				Theoretical	Tutorial	Practical	
Department requirement	Design of Machine Elements 2	3	1		3	Department requirement	Control Engineering & Measurements	3	1		3
	Air Conditioning	2	1	2	3		Design of Machine Elements 2	3	1		3
	Power Plants	2	1	2	3		Refrigeration	2	1	2	3
	Mechanical Vibrations	2	1	2	3		Elective 2	2			2
	Engineering Materials	3			3		Elective 3	2			2
	Elective 1	2			2		Final Year Project 2	2	1	3	3
	Final Year Project 1	2	1	3	3	University requirement	English Language 4	2			2
Total Hours and Units		16	5	9	20		Total Hours and Units		16	4	3

First Year											
Semester I						Semester II					
Category	Subject	Hours			Units	Category	Subject	Hours			Units
		Theoretical	Tutorial	Practical				Theoretical	Tutorial	Practical	
College requirement	Chemistry	3		3	4	Department requirement	Applied Physics	3		2	4
	Physics	3		3	4		Engineering Geology	2	1	3	3
	Calculus 1	3	1		3	College requirement	Calculus 2	3	1		3
	Fundamentals of Electrical Eng.	2		2	2		Engineering Drawing	2	2	3	3
University requirement	Arabic language	2			2	College requirement	Engineering Mechanics (Static)	3	1		3
	English Language 1	2			2		Computer Science	2	1	3	3
	Human rights	1			1	University requirement	Democracy	1			1
Total Hours and Units		16	1	8	18	Total Hours and Units		16	6	11	20

Second Year											
Semester I						Semester II					
Category	Subject	Hours			Units	Category	Subject	Hours			Units
		Theoretical	Tutorial	Practical				Theoretical	Tutorial	Practical	
Department requirement	Fluid Mechanics	2	1	3	3	Department requirement	Open Channels	2	1		2
	Engineering Mechanics (Dynamics)	3	1		3		Concrete Technology	3		3	3
	Engineering surveying 1	2		3	2		Engineering surveying 2	2		2	2
	Building Materials Technology	2		2	3		Construction for Water Resources Projects	2		-	2
	Computer Programming	2		2	3		Strength of Materials	3		2	3
College requirement	Calculus 3	3	1		3	Soil Physics	2	2	2	3	
University requirement	English Language 2	2			2	College requirement	Calculus 4	3	1		3
Total Hours and Units		16	3	10	19	Total Hours and Units		17	4	9	18

Third Year											
Semester I					Semester II						
Category	Subject	Hours			Units	Category	Subject	Hours			Units
		Theoretical	Tutorial	Practical				Theoretical	Tutorial	Practical	
Department requirement	E. Hydrology	2	1		2	Department requirement	Foundations E.	2	2		2
	Soil Mechanics	2	2	3	3		Ground Water Hydrology	2	1		2
	Environmental E.	2	1	3	3		Hydraulic Structures	2	1	2	3
	Theory of Structures	3			3		Water Quality Control	2	1	2	3
	E. Management	3	2		3		Sanitary E.	2	1		2
	Hydraulic Machines	3	1		3		Reinforced Concrete Design	2			3
College requirement	E. Statistics	3			3	College requirement	E.Numerical Methods	2	1	2	3
						University requirement	English language3	2			2
Total Hours and Units		18	7	6	20	Total Hours and Units		16	7	6	20

Fourth Year											
Semester I					Semester II						
Category	Subject	Hours			Units	Category	Subject	Hours			Units
		Theoretical	Tutorial	Practical				Theoretical	Tutorial	Practical	
Department requirement	E. optimization	3	1		3	Department requirement	Drainage E.	3	1		3
	Irrigation Engineering	3	1		3		Methods of Construction & Estimation	3	1		3
	Design of Dams	3	1		3		Safety & Operation of Dams	3	1		3
	Design & evaluation of on-farm irrigation systems	2	1		2		Design of reinforced concrete hydraulic structure. DWE elective class	3	1		3
	Remote sensing & GIS In hydraulic structure. DWE elective class.	3	1		3		Water resources Planning & Management	3	1		3
	Senior Design 1	2	1	3	3		Senior Design 2	2		3	3
University requirement	Leadership Skills & professional Ethics	2			2	University requirement	English language4	2			2
Total Hours and Units		18	6	3	19	Total Hours and Units		19	5	3	20

First Year											
Semester I						Semester II					
Category	Subject	Hours			Units	Category	Subject	Hours			Units
		Theoretical	Tutorial	Practical				Theoretical	Tutorial	Practical	
College requirement	Calculus 1	3	1		3	Department requirement	Applied Physics	3			3
	Physics	3		3	4		Fundamentals of EE 2	3	1	3	4
	Fundamentals of EE 1	2	1	2	3	College requirement	Engineering Drawing	2	2	3	3
	Computer Science	2	1	3	3		Engineering Mechanics 1 (Static)	3	1		3
	Chemistry	3		3	4		Calculus 2	3	1		3
University requirement	Arabic Language	2			2	University requirement	English Language 1	2			2
	Human Rights	1			1		Democracy	1			1
Total Hours and Units		16	3	11	20	Total Hours and Units		17	5	6	19

Second Year											
Semester I						Semester II					
Category	Subject	Hours			Units	Category	Subject	Hours			Units
		Theoretical	Tutorial	Practical				Theoretical	Tutorial	Practical	
Department requirement	Electromagnetics 1	2	1		2	Department requirement	Electromagnetics 2	2	1		2
	Fundamentals of Electronics 1	2	1		2		Fundamentals of Electronics 2	2	1		2
	DC Machines 1	2	1		2		DC Machines 2	2	1		2
	Electric Circuits 1	2	1		3		Electric Circuits 2	2	1		3
	Digital Techniques 1	2			2		Digital Techniques 2	2		2	3
	EE Lab 21			6	2		EE Lab 22			6	2
College requirement	Calculus 3	3	1		3	College requirement	Calculus 4	3	1		3
University requirement	English Language 2	2			2		Engineering Statistics	3			3
Total Hours and Units		15	5	6	18	Total Hours and Units		16	5	8	20

Third Year											
Semester I						Semester II					
Category	Subject	Hours			Units	Category	Subject	Hours			Units
		Theoretical	Tutorial	Practical				Theoretical	Tutorial	Practical	
Department requirement	AC Machines1	2	1		2	Department requirement	AC Machines 2	2	1		2
	Electronics 1	3	1		3		Electronics 2	3	1		3
	Electric power1	2	1		2		Electric power 1	2	1		2
	Signals & Systems 1	2	1		2		Signals & systems 2	2	1		2
	Analog communications & Noise	2	1		2		Digital communications	2	1		2
	E. Economy	3			3		English language3	2			2
	Computer programming	1		3	2		Computer networks	3	1		3
	EE Lab 31			6	2		EE Lab 32			6	2
Total Hours and Units		15	5	9	18	Total Hours and Units		16	6	6	18

Fourth Year											
Semester I						Semester II					
Category	Subject	Hours			Units	Category	Subject	Hours			Units
		Theoretical	Tutorial	Practical				Theoretical	Tutorial	Practical	
Department requirement	Information theory	2			2	Department requirement	Power system analysis	2	1		2
	Control theory 1	2	1		2		Control theory 2	2	1		2
	Electric power3	2	2		2		Power electronics	2	2		2
	Digital electronics	2	1		2		Programmable Logic controller (PLC)	2	1		2
	E. project 1	3			3		E. Project 2	3			3
	EE Lab 41			3	1		EE Lab 42			3	1
College requirement	Engineering numerical methods	2	1	3	3	Advanced communication systems	2	1		2	
University requirement	English language 4	2			2	Ethics & Leadership skills	2			2	
Total Hours and Units		15	5	6	17	Total Hours and Units		15	6	3	16

First Year											
Semester I						Semester II					
Category	Subject	Hours			Units	Category	Subject	Hours			Units
		Theoretical	Tutorial	Practical				Theoretical	Tutorial	Practical	
Department requirement	Principle of Chemical Eng. 1	3	1		3	Department requirement	Principle of Chemical Eng. 2	3	1		3
College requirement	Calculus-I	3	1		3	College requirement	Organic Chemistry	2		2	3
	Physics	2		2	3		Engineering Drawing	1	1	3	2
	General Chemistry	2		2	3		Calculus 2	3	1		3
University requirement	Computer science	1	1	2	2	University requirement	Engineering mechanics (Static)	2	1		2
	Human Rights	1			1		Democracy	1			1
	Arabic Language	2			2		English Language-I	2			2
Total Hours and Units		14	3	6	18	Total Hours and Units		14	4	5	16

Second Year											
Semester I						Semester II					
Category	Subject	Hours			Units	Category	Subject	Hours			Units
		Theoretical	Tutorial	Practical				Theoretical	Tutorial	Practical	
Department requirement	Fluid Mechanics1	3	1		3	Department requirement	Fluid Mechanics 2	2	1	2	3
	Workshop Engineering	0		3	1		Engineering Materials	2		2	3
	Physical Chemistry	2		2	3		Mass Transfer	3	1		3
	Technology of Chemical Industries 1	2			2		Technology of Chemical Industries 2	2			2
	Thermodynamics I	3	1		3		Analytical Chemistry	2		2	3
College requirement	Calculus 3	3	1		3	Thermodynamics 2	3	1	2	3	
University requirement	English language 2	2			2	College requirement	Calculus 4	3	1		3
Total Hours and Units		15	3	5	17	Total Hours and Units		17	4	6	20

Third Year											
Semester I					Semester II						
Category	Subject	Hours			Units	Category	Subject	Hours			Units
		Theoretical	Tutorial	Practical				Theoretical	Tutorial	Practical	
Department requirement	Principles of Heat Transfer 1	3	1		3	Department requirement	Heat Transfer with Phase Change II	2	1	2	3
	Composite Materials	2		2	3		Technology of Natural Gas	2	1		2
	Properties of Petroleum & Natural Gas	2	1	2	3		Water Treatment	2			2
	Technology of Petrochemical Industries1	3			3		Technology of Petrochemical Industries2	3			3
	Unit Operations1	3	1		3		Unit Operations2	3	1	2	4
	Reactor Design1	3	1		3		Reactor Design2	3	1		3
College requirement	E. Statistics	3			3	College requirement	E. Economy	3			3
						University requirement	English Language3	2			2
Total Hours and Units		19	4	4	21	Total Hours and Units		20	4	4	22

Fourth Year											
Semester I					Semester II						
Category	Subject	Hours			Units	Category	Subject	Hours			Units
		Theoretical	Tutorial	Practical				Theoretical	Tutorial	Practical	
Department requirement	Petroleum Refining E.1	3	1		3	Department requirement	Petroleum Refining E. 2	3	1		3
	Industrial Equipment Design	3	1		3		Industry Safety	2			2
	Environmental E.	2			2		Corrosion E.	2	1		2
	Processes Control	2	1	2	3		Technology of catalysts	2			2
	Transport phenomena	3			3		Modelling &Simulation	2		2	3
	Project design1			4	2		Project Design 2	0		4	2
College requirement	E. numerical methods	2	1	3	3	University requirement	English language 4	2			2
							E. skills & Ethics	3			3
Total Hours and Units		15	4	9	19	Total Hours and Units		16	2	6	19



**Curricula for
College of Dentistry**

1987 1408
UNIVERSITY OF ANBAR

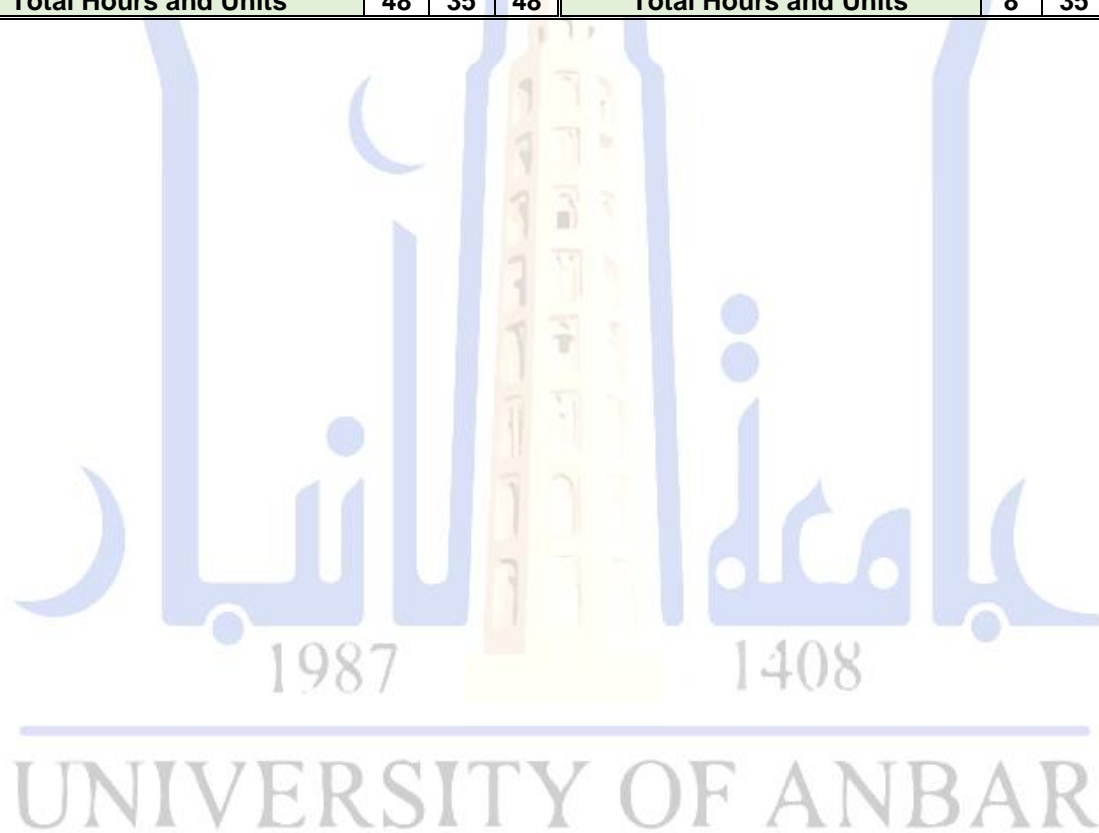
First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Medical Physics	2	2	6		Medical Physics	2	2	6
	Medical Chemistry	2	2	6		Medical Chemistry	2	2	6
	Medical Biology	2	2	6		Medical Biology	2	2	6
	Dental Anatomy	1	2	4		Dental Anatomy	1	2	4
	Computer Science	1	2	4		Computer Science	1	2	4
	Arabic language	1		2		Arabic language	1		2
	Human Rights	2		2		Human Rights	2		2
	English language	1		2		English language	1		2
Total Hours and Units		12	10	32	Total Hours and Units		12	10	32

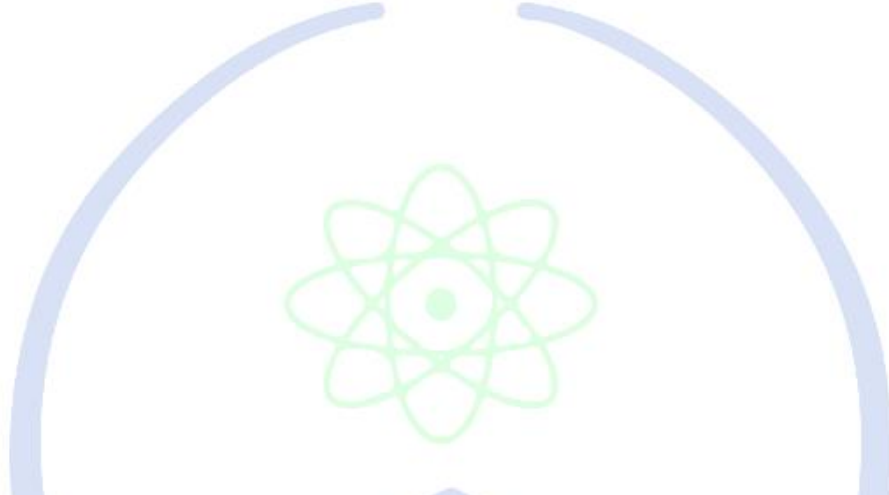
Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Prosthodontics	1	4	6		Prosthodontics	1	4	6
	Dental Material	1	2	4		Dental Material	1	2	4
	Oral Histology	1	2	4		Oral Histology	1	2	4
	General Histology	2	2	6		General Histology	2	2	6
	Physiology	2	2	6		Physiology	2	2	6
	Anatomy	2	3	7		Anatomy	2	3	7
	Biochemistry	1	2	6		Biochemistry	1	2	6
	Democracy & freedom	1		2		Democracy & freedom	1		2
Total Hours and Units		11	17	41	Total Hours and Units		11	17	41

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Prosthodontics	1	6	4		Prosthodontics	1	6	4
	Restorative Dentistry	2	9	8		Restorative Dentistry	2	9	8
	Oral Surgery	1	2	4		Oral Surgery	1	2	4
	Community Dentistry	1	2	4		Community Dentistry	1	2	4
	Pharmacology	2	2	6		Pharmacology	2	2	6
	General Pathology	2	2	6		General Pathology	2	2	6
	microbiology	2	2	6		microbiology	2	2	6
	Radiology	1	3	4		Radiology	1	3	4
Total Hours and Units		12	28	42	Total Hours and Units		12	28	42

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Prosthodontics	1	3	5		Prosthodontics	1	3	5
	Restorative Dentistry	1	6	8		Restorative Dentistry	1	6	8
	Oral Surgery	1	5	7		Oral Surgery	2	5	7
	Periodontology	1	3	5		Periodontology	1	3	5
	Orthodontics	1	5	7		Orthodontics	1	5	7
	Oral Pathology	2	3	7		Oral Pathology	2	3	7
	General Medicine	1	3	5		General Medicine	1	3	5
	General Surgery	1	3	5		General Surgery	1	3	5
Total Hours and Units		9	31	49	Total Hours and Units		9	31	49

Fifth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
	Prosthodontics	1	6	8		Prosthodontics	1	6	8
	Restorative Dentistry	1	6	8		Restorative Dentistry	1	6	8
	Oral Surgery	1	6	8		Oral Surgery	1	6	8
	Oral Medicine	1	3	5		Oral Medicine	1	3	5
	Periodontology	1	6	5		Periodontology	1	6	5
	Pedodontics	1	3	5		Pedodontics	1	3	5
	Orthodontics	1	2	5		Orthodontics	1	2	5
	Preventive Dentistry	1	3	4		Preventive Dentistry	1	3	4
Total Hours and Units		48	35	48	Total Hours and Units		8	35	48





**Departmental Curricula
for College of
Computer Science & IT**

1987 1408
UNIVERSITY OF ANBAR

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
CSIT110	Computer Technology	2	2	3	CSDC105	Microprocessors	2	2	3
CSIT107	Programming in C++1	3	2	4	CSDC116	Discrete Structures	3		3
CSIT109	Logic Design	2	2	3	CSIT108	Programming in C++ 2	3	2	4
CSDC113	Mathematics 1	3		3	CSIT111	Logic Design 2	2	2	3
UOA140	English language 1	2		2	CSDC114	Mathematics 2	3		3
UOA135	Human Rights	1		1	UOA137	Arabic	1		1
Total Hours and Units		13	6	16	Total Hours and Units		14	6	17

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
CSDC210	Computational Theory 1	2		2	CSDE205	Computational Theory 2	2		2
CSDC209	Database Management Systems 1	2	2	3	CSDE213	Data Base programming	2	2	3
CSDC207	Object Oriented Programming1	3	2	4	CSDE206	Gaming Programming	2	2	3
CSIT201	Data Structures	2	2	3	CSDE211	Object Oriented Programming 2	3	2	4
CSDC203	Advanced Mathematics	3		3	CSDC208	Algorithms	2	2	3
UOA201	Freedom & Democracy	1		1	CSDC204	Numerical Analysis	2	2	3
					UOA232	English language2	2		2
Total Hours and Units		13	6	16	Total Hours and Units		15	10	20

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
CSDC306	Visual Programming 1	2	2	3	CSDE312	Visual Programming2	2	2	3
CSDC308	Computer Graphics 2D	2	2	3	CSDE310	Computer Graphics 3D	2	2	3
CSDC307	Computer Architecture	2		2	CSDE308	Internet of Things	2	2	3
CSDC305	Computer Networks1	2	2	3	CSDE311	Computer Networks2	2	2	3
CSDC310	Compilers 1	2	2	3	CSDE307	Compilers 2	2	2	3
CSDC307	Mobile Applications Programming	2	2	3	CSDC309	Software Engineering	2		2
UOA301	English language 3	2		2					
Total Hours and Units		14	10	19	Total Hours and Units		12	10	17

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
CSIT401	Operating Systems 1	2	2	3	CSDE408	Operating Systems 2	2	2	3
CSDC404	Computer Security1	2	-	2	CSDE411	Computer Security2	2		2
CSDC405	Artificial Intelligence1	2	2	3	CSDE413	Artificial Intelligence2	2	2	3
CSDC403	PHP Web Development	2	2	3	CSDE409	Web Programming – Asp	2	2	3
CSDC406	Digital Image Processing	2	2	3	CSDE412	Computer Vision	2	2	3
CSDE407	Research Methodology	2		2	CSDC410	Project in CS	-	12	6
					UOA401	English language4	2		2
Total Hours and Units		12	8	16	Total Hours and Units		12	20	22

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
CSIT107	Structured programming	3	2	4	CSIT108	Structured programming	3	2	4
CSIT110	Fundamental of Information Technology	2	2	3	CSIT112	Discrete Structures	2		2
CSIT109	Logic Design 1	2	2	3	CSIT111	Logic Design 2	2	2	3
ISDC115	Mathematic 1	3		3	ISDC116	Mathematic 2	3		3
UOA135	Human Right	1		1	ISDC117	Principles of Information Systems	2		2
UOA140	English language	2		2	UOA137	Arabic language	1		1
Total Hours and Units		13	6	16	Total Hours and Units		15	4	15

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
ISDC207	Object Oriented Programming 1	3	2	4	ISDE211	Object Oriented Programming 2	3	2	4
CSIT201	Data Structures	2	2	3	ISDE317	Algorithms	2	2	3
ISDE215	Computational Theory1	2		2	ISDE218	Computational Theory 2	2		2
ISDC202	Design and Analysis of Information Systems	2		2	ISDC205	Design and Analysis of Databases	2	2	3
ISDC203	Advanced Mathematics	3		3	ISDE219	Design Internet Pages	2	2	3
ISDE212	Introduction to E-Business Systems	2		2	ISDC303	Numerical Analysis	2	2	3
UOA201	Freedom&Democracy	1		1	UOA240	English language	2		2
Total Hours and Units		17	4	17	Total Hours and Units		15	10	20

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
ISDC308	Visual Programming1	2	2	3	ISDE323	Visual Programming 2	2	2	3
ISDE321	Compiler 1	2	2	3	ISDE324	Compiler 2	2	2	3
ISDC305	Principles of Computer Network	2	2	3	ISDE325	Data Network	2	2	3
ISDC306	Database Management systems	2	2	3	ISDE326	Distributed Databases	2	2	3
UOA340	English language 3	2		2	ISDC309	Software Engineering	2		2
ISDC307	Project Management Systems	2		2	ISDC327	Data Management Systems	2		2
						Decision Support Systems	2		2
Total Hours and Units		12	10	16	Total Hours and Units		14	8	18

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
ISDC406	Information Security I	2		2	ISDE425	Information Security 2	2		2
CSIT402	Multimedia Computing 1	2	2	3	ISDE427	Multimedia Computing 2	2	2	3
ISDC405	Artificial Intelligent1	2	2	3	ISDE429	Artificial Intelligent 2	2	2	3
ISDE414	Information retrieve &Search engine	2		2	ISDE313	E- Commerce	2		2
ISDC403	Data Warehouse	2		2	ISDC404	Data Mining	2		2
ISDC422	Web application programming	2	2	3	ISDE419	Mobile applications programming	2	2	3
CSDE423	Research Methodology	2		2	UOA440	English language4	2		2
					ISDC407	Project		12	6
Total Hours and Units		14	6	17	Total Hours and Units		14	18	23

First Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
NSCC107	Programming in C++1	3	2	4	NSCC108	Programming in C++ 2	3	2	4
NSCC110	Fundamentals of Information Technology 1	2	2	3	NSCE112	Fundamentals of Information Technology 2	2	2	3
NSCC114	Electrical Circuits	2	2	3	NSDC116	Networks Fundamentals	3		3
NSCC109	Logic Design 1	2	2	3	NSDC104	Discrete Mathematics	2		2
NSDC113	Mathematics 1	3		3	NSCE111	Logic Design 2	2	2	3
UOA140	English language	2		2	NSDC103	Mathematics 2	3		3
UOA135	Freedom & Human Rights	1		1	UOA137	Arabic language	1		1
Total Hours and Units		15	4	19	Total Hours and Units		16	3	19

Second Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
NSCC201	Data Structures	2	2	3	NSDC209	Algorithms	2	2	3
NSDC203	Advanced Mathematics	3		3	NSDC202	Numerical Analysis	2	2	3
NSDC204	Digital Electronic	2	2	3	NSDC206	Computer Architecture	2		2
NSDC205	Microprocessors	2	2	3	NSDC207	Computer Networks	2	2	3
NSDE210	Data Communication	2		2	NSDC213	Web Design	2	2	3
NSDC208	Object Oriented Programming 1	3	2	4	NSDE211	Object Oriented Programming 2	3	2	4
UOA201	Democracy	1		1	UOA223	English language	2		2
NSDE212	Information Theory & Coding	2		2					
Total Hours and Units		17	4	21	Total Hours and Units		15	5	20

Third Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
NSDC305	Visual Programming1	2	2	3	NSDE301	Software Engineering (Elective)	2		2
NSDE309	Database Management Systems (Elective)	2	2	3	NSDC304	Visual Programming 2	2	2	3
NSDC306	Wireless Networks	2	2	3	NSCE302	Multimedia	2	2	3
NSDC303	Web Programming	2	2	3	NSDE312	Distributed Database (Elective)	2	2	3
NSDE308	Digital Signal Processing 1	2		2	NSDC307	Network Programming	2	2	3
UOA323	English language	2		2	NSDE313	Digital Signal processing 2	2		2
Total Hours and Units		12	4	16	Total Hours and Units		12	4	16

Fourth Year									
Semester I					Semester II				
Category	Subject	Hours		Units	Category	Subject	Hours		Units
		Theoretical	Practical				Theoretical	Practical	
NSDC408	Network Protocols & Services	2	2	3	NSDC406	Switching & Routing in the Network	2	2	3
NSDC413	Information Security	2		2	NSDC404	Networks Security	2		2
NSDC409	Artificial Intelligence 1	2	2	3	NSDE411	Artificial Intelligence2	2	2	3
NSDC405	Web Application Development 1	2	2	3	NSDC403	Web Application Development 2	2	2	3
NSCC401	Operating Systems	2	2	3	NSDC407	Mobile Computing (Elective)	2	2	3
NSCC412	Research Methodology	1		1	NSDC410	Project in CNS		12	6
UOA423	English language	2		2					
Total Hours and Units		13	4	17	Total Hours and Units		10	10	20