Republic of Iraq Ministry of Higher Education & Scientific Research Supervision and Scientific Evaluation Directorate Quality Assurance and Academic Accreditation

Academíc Program Specífícatíon Form for The Academíc

University of Anbar College of Education for Women Department Department of Chemistry Date Of Form Completion : 30/1/2021

Dean 's Name

Prof. Dr. Nasra H Jadoaa

Date : 13/10/2019

Dean's Assistant For Scientífic Affairs

Asst. Prof. Dr. Fíras F Alí

Date : 13/10/2019

Head of Department

Asst Prof. Dr. Ríyadh M Jíhad Date : 13/10/2019

Quality Assurance and University Performance Manager Prof. Dr. Ahmed Abdul Sattar Date : 13/10/2019



TEMPLATE FOR PROGRAMME SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

PROGRAMME SPECIFICATION

This Programme Specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It is supported by a specification for each course that contributes to the programme.

1. Teaching Institution	University of Anbar
2. University Department/Centre	College of Education for Women Department Department of Chemistry
3. Programme Title	Chemistry
4. Title of Final Award	Bachelor in Chemistry
5. Modes of Attendance offered	Courses
6. Accreditation	
7. Other external influences	
8. Date of production/revision of	30/1/2019
this specification	

9. Aims of the Programme

1. Preparing graduates with high theoretical and practical skills to meet the needs of education in schools and community service in the field of teaching.

2. Providing graduates with practical skills for teaching in accordance with the scientific developments taking place in the methodological vocabulary and modern teaching methods following up on the teaching of chemistry.

3. Preparing graduates to actively participate in the country's progress and achieve social benefits for society.

10. Learning Outcomes, Teaching, Learning and Assessment Methods
A. Knowledge and Understanding
The student has the ability to know and understand the principles, theories and basics of chemistry.
The student has the ability to understand modern and advanced scientific topics in the field of chemistry.
Have a student who is able to understand chemistry and the equations for studying it.
□ Have a student able to understand the basics of the work of laboratory devices that are used in chemical analysis.
Teaching and Learning Methods
□ Daily theoretical lectures.
□ Practical lectures in laboratories.
□ Graduation projects for students of the completed stage and their discussion.
Assessment methods
□ Monthly and quarterly written exams.
□ Quick exams (Quizzes).
□ Homework.
□ Writing scientific reports and research.
C. Thinking Skills
\Box Description and analysis of chemical applications.
\Box Analyze problems related to chemistry and discuss possible solutions.

D. General and Transferable Skills (other skills relevant to employability and personal development)

□ Analyzing and discussing the results of laboratory experiments for use in understanding chemical phenomena.

□ The ability to write and draft laboratory reports on the results of examinations and scientific tests.

 \Box The ability to derive the results of experiments.

Teaching and Learning Methods

 \Box Daily theoretical lectures.

□ Practical lectures in laboratories.

□ Graduation projects for students of the completed stage and their discussion.

Assessment Methods

 \Box Monthly and quarterly written exams.

 \Box Quick exams (Quizzes).

☐ Homework.

□ Writing scientific reports and research.

11. Program	me Structure			
First year				12. Awards and Credits
Level/Year	Course or Module Code	Course or Module Title	Credit rating	
Course	EWC 1101	Arabic Language	2	Bachelor Degree
Course	EWC 1102	English Language	2	Requires (x) credits
Course	EWC 2101	Educational Psychology	2	
Course	EWC 2102	Human Rights	2	
Course	EWC 2103	Foundations of Breeding	2	
Course	EWC 3101	Life sciences	٣	
Course	EWC 3102	Calculators – 1	٣	
Course	EWC 3103	Mathematics - 1	۲	
Course	EWC 3104	Analytical - 1	3.5	
Course	EWC 3105	Analytical - 2	3.5	

Course	EWC 3106	Organic – 1	3.5
Course	EWC 3107	Organic - 2	3.5
Course	EWC 3108	Inorganic - 1	2
Course	EWC 3109	Inorganic - 2	2
Second yes	ar		
Course	EWC 2201	Developmental Psychology	2
Course	EWC 2202	Liberties	2
Course	EWC 2203	Educational administration	2
Course	EWC 3201	Mathematics - 2	2
Course	EWC 3202	Physics	2
Course	EWC 3203	Research Method	2
Course	EWC 3204	Calculators - 2	2
Course	EWC 3205	Organic - 3	5.5
Course	EWC 3206	Inorganic - 3	5.5
Course	EWC 3207	Physics – 1	5.5
Course	EWC 3208	Analytical - 3	5.5
Third year			
Course	EWC 2301	Counseling and mental health	2
Course	EWC 2301	Curriculum and teaching methods	2
Course	EWC 3301	Pollution	2.5
Course	EWC 3302	Organic - 4	3.5
Course	EWC 3303	Organic - 5	3.5
Course	EWC 3304	Industrial - 1	5.5
Course	EWC 3305	Physics – 2	3.5
Course	EWC 3306	Physics – 3	3.5

Course	EWC 3307	Inorganic - 4	3.5
Course	EWC 3308	Biochemistry – 1	2.5
Fourth yea	r		
Course	EWC 2401	Measuring and evaluating	۲
Course	EWC 2402	school apps	۲
Course	EWC 3401	Optional	۲
Course	EWC 3402	Research Project	1.5
Course	EWC 3403	Biochemistry - 2	3.5
Course	EWC 3404	Biochemistry - 3	3.5
Course	EWC 3405	Quantum and spectra	2
Course	EWC 3406	Organic Diagnostics	3.5
Course	EWC 3407	Automatic analysis	5.5
Course	EWC 3408	Industrial - 2	4

13. Personal Development Planning

Creating an action plan based on awareness, values, reflection, goal-setting and planning for personal development within the context of a career

14. Admission criteria .

• Adopting the admission requirements for students in accordance with the regulations of the Ministry of Higher Education and Scientific Research (central admission)

• Personal interview of the department.

• To be fit for a medical examination.

• High school average.

• The absorptive capacity of the college.

15. Key sources of information about the programme

• Market needs.

• Local trends of the province.

• Studies and questionnaires.

	Curriculum Skills Map																		
	please tick in the relevant boxes where individual Programme Learning Outcomes are being assessed																		
									Р	rogra	mme	Lear	ning C	Outcon	ies				
Year / Course Course Title Core (C) Title or Option (O)		K I	Knowle unders	edge an tandin	nd 1g	S	ubjec sl	t-speci tills	fic	r	Fhinkir	ng Skill	S	Skills (or) Other skills relevant to employability and personal development					
				A1	A2	A3	A4	B 1	B2	B3	B4	C1	C2	C3	C4	D1	D2	D3	D4
Course		Arabic Language		\checkmark															
		English Language			\checkmark			\checkmark											
Course		Educational Psychology		\checkmark				\checkmark											
		Human Rights			\checkmark			\checkmark											
Course		Foundations of Breeding		\checkmark				\checkmark											
		Life sciences		V				\checkmark											
Course		Calculators – 1		V	\checkmark			\checkmark											
		Mathematic s - 1			V			\checkmark											
Course		Analytical - 1						\checkmark											
		Analytical - 2																	
Course		Organic – 1																	
		Organic - 2																	
Course		Inorganic - 1						\checkmark											
Course		Inorganic - 2																	
Course		Developme ntal						\checkmark											

	Psychology										
Course	Liberties	V									
Course	Educational administrati on	V	V								
Course	Mathematic s - 2				\checkmark	\checkmark					
Course	Physics	V									
Course	Research Method				\checkmark						
Course	Calculators - 2		V		\checkmark						
Course	Organic - 3	\checkmark									
Course	Inorganic - 3	\checkmark			\checkmark						
Course	Physics – 1										
Course	Analytical - 3		V		\checkmark	\checkmark					
Course	Counseling and mental health	\checkmark	\checkmark		\checkmark						
Course	Curriculum and teaching methods	V	V		V						
Course	Pollution										
Course	Organic - 4										
Course	Organic - 5										
Course	Industrial - 1	V									
Course	Physics – 2										
Course	Physics – 3										
Course	Inorganic - 4				\checkmark						
Course	Biochemistr y – 1				\checkmark						

Course	Measuring and evaluating		\checkmark			\checkmark					
Course	school apps	· · ·									
Course	Optional										
Course	Research Project										
Course	Biochemistr y - 2										
Course	Biochemistr y - 3										
Course	Quantum and spectra										
Course	Organic Diagnostics					V					
Course	Automatic analysis				\checkmark						
Course	Industrial - 2										

Curriculum Skills Map																			
	ple	ase tick in th	e relevant bo	oxes	wher	e indi	vidu	al Pr	ograi	nme I	Learn	ing O	utcom	ies are	bein	g asse	essed		
									P	rogra	mme	Lear	ning C	Outcon	nes				
Year/ Level	Course Code	Course Title	Core (C) Title or Optio	K U	Inowle	edge an standin	nd Ig	S	ubjec sl	t-speci kills	fic	,	Thinkir	ng Skill	S	Gen Sk relev and	eral and ills (or) (vant to e personal	Transfer Other sk mployat develop	rable ills oility oment
			n(O)	A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4	D1	D2	D3	D4
Course		General introduction		V	\checkmark			V				V							
		Alkanes																	
Course		Alkane preparation		V	\checkmark							V							
		Alkane reactions		V	V							V							
Course		Alkene preparation		V	\checkmark				\checkmark			V							
		Alkene reactions		V								V							
Course		Alkyne preparation		V	\checkmark							V							
		Alkyne reactions			V			V				V							
Course		Phenol preparation		V				V				V							
		Phenol reactions		V				\checkmark				V							
Course		Carboxylic acid										$\sqrt{1}$							
		preparation																	

	Carboxylic											
	acid reactions				·	· ·						
Course	Ester	\checkmark						V				
Course	Fster							1				
Course	reactions	V	\bigvee		V			,				
Course	Aldehyde preparation	V						V				
Course	Aldehyde reactions	V	V									
Course	Ketone preparation	\checkmark						V				
Course	Ketone reactions		\checkmark									
Course	Amine preparation	V						V				
Course	Amine reactions	V										
Course	Alkali metals	V										
Course	Alkali earth metals	V						V				
Course	Boron group											
Course	Carbon group	V										
Course	Nitrogen group					\checkmark		V				
Course	Oxygen group	V										
Course	Halogens group	V						V				
Course	Nobel gas group							V				
Course	Electrolytes											
Course	Acid and base											
Course	Solutions											
Course	pH calculations							V				

Course	Buffer solutions	V	\checkmark				V				
Course	Common ion	· √									
Course	Methods of concentration expression	V	V								
Course	Volumetric titrations	v			 V						
Course	Acid-base titration curve	v					V				
Course	Precipitation titrations	v									
Course	Mohr method	\checkmark									
Course	Volhard method	V					V				
Course	Fajan method										
Course	Oxidation- reduction titration	V									
Course	Potential cell	\checkmark			 						
Course	Complex formation titrations						V				
Course	Water hardness										