# Description of the academic program

**University name: Anbar University** 

College: College of Applied Sciences - Hit

Scientific Department: Department of Applied Chemistry

Name of the academic or professional program: Bachelor of Applied

Chemistry

Name of final degree: Bachelor of Applied Chemistry

**Academic system: courses** 

:Description preparation date

:File filling date 2/5/2024

ورارد النظيم العالي و البحث العلمي جاهعة الاثمار كلمة العلوم النظيمةية هممة

سم الكيسياء النطبيةيه

التوقيع:

اسم المعاون العلمي: ١. م. د. راسم فراج مسلم

التاريخ: 2/2/15/2

اسم رئيس القسم الم. د. مروان محمد فرحان

لتاريخ: 2/5/20

دقق الملف من قبل

شعبة ضمان الجودة والاداء الجامعي

اسم مدير شعبة ضمان الجودة والاداء الجامعي

التاريخ

التوقيع

### مصادقة السيد العميد

### 1. See the program

Leadership in higher education, scientific research and development of academic programs to achieve sustainable community development

### 2. Program message

Excellence in the quality of teaching, learning and scientific research by adopting analytical and critical thinking strategies to qualify human resources cognitively and intellectually Skilled in a . competitive and creative environment

### 3. Program Goals

- 1- Consolidating the scientific foundations in pure chemistry and developing the applied aspects
- 2- Stimulating students' research aspects with applied trends
- 3- Preparing competent cadres in the field of applied chemistry in industrial and clinical directions
- 4- Developing graduates' potential for employment optimum For devices Laboratory and understanding the outputs of various analyses
- 5- Contributing to the development of cadres working in the field of chemistry in state institutions and departments

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Comprehensive evaluation of college or university programs, and ensuring their quality is appropriate to the type of degree awarded

## 5.Other external influences

Sis there a sponsor for the program

* comments	percentage	Study unit	Number of courses	Program structure
				Enterprise requirements
				College requirement
				Department requirements
				summer training
Acceptable of the last				Other

<sup>.</sup>Notes may include whether the course is core or elective \*

	Name of the course or course	course code	Year/level
retical			13 (10 to 10 to
	retical	retical	retical

# 8. Expected learning outcomes of the programme

Knowledge	
A-1 To know how to deal with chemicals	A- Cognitive objectives
To have a culture of chemistry and the community's A-2 needs for safe handling	
the chemical management system A-3 To analyze	
A-4 To be able to completion Analyzes related to chemical components For materials	
the actual needs for developing uses A-5 To classify Various chemicals	
Skills	
B1 - The student's knowledge of dealing with chemical materials	B - The program's skill objectives
B2 - The student's ability to evaluate different chemical analyses	
B3 - Empowering students with applied trends in the field of chemistry	Learning outcomes 3
Value	
C-1 Developing the ability to read external books related to chemistry	C- Emotional and value goals.
peers C-2 Group work with	
. C-3 Thinking towards green chemistry and preserving the environment.	Learning outcomes 5
Stimulating the ability to deal transparently and C-4 professionally with society.	

# 9. Teaching and learning strategies

- How to present/ present (lectures)
- Student groups

workshops -

Brai	insto	rming	ideas	_
Dia	11366	/1	lucus	

E-learning on campus -

Experiential learning -

Education application -

# 10. Evaluation methods

- Learning matrix
- Feedback from students
- Learning triangle

		Faculty me	mbers		
Preparing the sta	See A STATE OF STREET OF STREET	Special requirements/skills (if any)	Speciali	zation	Scientific rank
lecturer	angel		private	gener al	
	X		Analytic al chemist ry	chemi stry	·Mr
	Х		Bioche mistry	chemi stry	·Mr

Х	organic chemist ry	chemi stry	Assistant Professor
Х	organic chemist ry	chemi stry	Assistant Professor
Х	Bioche mistry	chemi stry	Assistant Professor
X	Analytic al	chemi stry	Assistant Professor
х	Library manage ment		Assistant Professor
х	Nano chemistr y	chemi stry	Teacher
х	analytic al chemistr y	chemi stry	Teacher
х		chemi stry	assistant teacher
X		chemi stry	assistant teacher
X		chemi stry	assistant teacher

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Profess	onal	deve	opment
			Opinicine

Orienting	new	faculty	mem	bers
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Briefly describes the process used to orient new, visiting, full-time, and part-time faculty at the institution and department levels

## Professional development for faculty members

Briefly describe your academic development plan and arrangements For faculty members, such as teaching and learning strategies, assessment of learning outcomes, professional development, etc

### 12. Acceptance standard

Establishing regulations related to enrollment in the college or institute, whether central ) (admission or others mentioned

### 13. The most important sources of information about the program

Remember briefly

### 14. Program development plan

							F	rogr	am sk	ills c	hart			VALUE OF THE PARTY	
	Learn	ing c	outco	mes r	equir	ed fr	om t	he pr	ogran	nme					
Value				Skil	ls			Kn	owle	dge		Essent ial or	Course Name	Cours	Year/le vel
C4	С3	C2	C1	В4	В3	B2	B 1	A 4	А3	A 2	A1	optio ?nal	Name	Code	•
<b>✓</b>	~	<b>V</b>	~	<b>√</b>	<b>√</b>	<b>√</b>	<b>V</b>	<b>✓</b>	<b>√</b>	<b>✓</b>	✓	Basic	Foundati ons of analytica I chemistr y		the first
1	✓	<b>√</b>	✓	<b>√</b>	<b>√</b>	1	~	<b>√</b>	<b>✓</b>	<b>√</b>	<b>√</b>	Basic	Inorgani c chemistr y		The first course
✓	1	1	<b>V</b>	1	~	1	<b>V</b>	<b>V</b>	1	~	1	Basic	cytology		1
1	1	<b>V</b>	1	✓	<b>√</b>	<b>√</b>	<b>V</b>	~	<b>V</b>	<b>V</b>	<b>V</b>	Basic	General physics		
												my choice	Calculato rs		
												my choice	mathem atics		
					7 (4)							my choice	Arabic		

									Pro	gram	skills	chart			
L	.earn	ing o	utco	mes	requ	ired	fron	the	prog	ramn	ne				
Val	ue			Skil	lls			Kno	owled	dge		Essential or	Course Name	Course Code	Year/leve
C4	С3	C2	C1	B4	В3	B2	B 1	A4	А3	A2	A1	optional ?			
<b>√</b>	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	1	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	Basic	Quantitative analysis chemistry		
✓	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	<b>✓</b>	<b>√</b>	1	<b>✓</b>	<b>✓</b>	<b>V</b>	<b>√</b>	Basic	Inorganic chemistry		the first
✓	<b>✓</b>	<b>✓</b>	/	<b>V</b>	<b>V</b>	<b>V</b>	1	1	<b>V</b>	<b>V</b>	<b>√</b>	Basic	General biology		The second
												my choice	Statistics		course
1.75												my choice	human rights		
	25 15											my choice	English		
												my choice	ComputerII		

									Pro	gram	skills	chart			
L	earn	ing c	utco	mes	requ	ired	fron	the	prog	ramn	ne				
Val	ue			Ski	lls			Kno	owled	dge		Essential	Course Name	Course Code	Year/level
C4	СЗ	C2	C1	B4	В3	B2	B 1	A4	А3	A2	A1	or optional ?			
<b>√</b>	<b>V</b>	<b>~</b>	<b>✓</b>	<b>√</b>	<b>V</b>	<b>V</b>	1	✓	<b>√</b>	<b>√</b>	<b>~</b>	Basic	Gravimetric analytical chemistry		
<b>√</b>	<b>V</b>	<b>✓</b>	<b>V</b>	<b>√</b>	<b>√</b>	<b>V</b>	1	~	<b>√</b>	<b>√</b>	<b>√</b>	Basic	chemistry ( similar (elements		the second
<b>√</b>	<b>V</b>	1	1	<b>V</b>	1	1	1	<b>V</b>	1	1	<b>√</b>	Basic	Physical chemistryl		The first course
✓	<b>V</b>	<b>V</b>	1	1	<b>√</b>	1	1	1	1	1	1	Basic	Organic Chemistryl		
												my choice	Linear algebra		
							18				153	my choice	English		
						ST ST						my choice	ComputerII		

									Pro	gram	skills	chart		No.	
L	.earn	ing o	utco	mes	requ	ired f	rom	the	prog	ramn	ne				
Value Skills						Kno	owled	dge		Essential or	Course Name	Course Code	Year/leve		
C4	СЗ	C2	C1	В4	В3	B2	B 1	A4	А3	A2	A1	optional ?	Nume		
✓	<b>V</b>	<b>✓</b>	<b>V</b>	<b>✓</b>	<b>√</b>	<b>✓</b>	1	1	<b>✓</b>	V	1	Basic	Gravimetric analytical chemistry		
<b>/</b>	1	<b>V</b>	~	1	~	~	1	~	~	~	1	Basic	Physical chemistryll		the
<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	1	~	~	1	~	1	~	~	Basic	Organic Chemistryll		second The
											17	my choice	Nano technologies		course
												my choice	Freedoms		
							164	8118				my choice	ComputerVI		

				(34)					Pı	rogra	m ski	lls chart			
L	earn	ing o	utco	mes	requ	ired	from	the	prog	ramn	ne				
Val	ue		, A	Ski	lls			Kno	owled	dge		Essential or	Course Name	Course Code	Year/I
C4	СЗ	C2	C1	B4	В3	B2	B 1	A4	А3	A2	A1	optional ?		Code	
✓	~	<b>V</b>	~	~	<b>V</b>	<b>V</b>	1	~	<b>V</b>	~	<b>V</b>	Basic	Stereochemistry		
<b>√</b>	<b>V</b>	<b>V</b>	<b>V</b>	<b>√</b>	<b>V</b>	<b>✓</b>	1	<b>V</b>	<b>√</b>	✓	~	Basic	Inorganic ( coordination) chemistry		the tl i
/	1	1	1	<b>✓</b>	✓	1	1	<b>V</b>	~	<b>V</b>	<b>V</b>	Basic	Kinetic physical chemistry		The f
<b>√</b>	<b>√</b>	<b>V</b>	<b>√</b>	1	✓	<b>V</b>		<b>√</b>	<b>V</b>	<b>V</b>	<b>√</b>	Basic	Heterogeneous organic chemistry		
<b>/</b>	<b>V</b>	1	~	<b>V</b>	<b>V</b>	1		<b>V</b>	<b>V</b>	✓	<b>√</b>	Basic	Basics of biochemistry		
												my choice	English		
												my choice	Industrial chemistry		

									Pr	ograi	m skil	ls chart			
L	earn	ing o	utco	mes	requ	ired	from	the	prog	ramn	ne				
Val	ue			Skil	ls			Kno	owled	dge		Essential or	Course Name	Course Code	Year/le
C4	СЗ	C2	C1	В4	В3	B2	B 1	A4	А3	A2	A1	optional ?		Couc	
/	✓	<b>✓</b>	<b>V</b>	<b>√</b>	<b>V</b>	<b>V</b>	7	<b>√</b>	<b>√</b>	<b>√</b>	✓	Basic	Mechanics of organic reactions		
/	1	~	1	1	<b>V</b>	1	1	1	1	~	1	Basic	Cellular metabolism		the thi
/	<b>✓</b>	V	1	1	1	~	1	1	1	1	<b>V</b>	Basic	Food chemistry		The secon
/	<b>√</b>	~	~	1	1	<b>V</b>	1	1	1	1	<b>V</b>	Basic	Environmental chemistry		cours
/	<b>✓</b>	<b>V</b>	<b>V</b>	<b>✓</b>	✓	<b>V</b>		<b>V</b>	1	<b>V</b>	<b>✓</b>	Basic	Natural products		
/	1	1	~	~	<b>V</b>	<b>V</b>		1	<b>V</b>	<b>√</b>	<b>√</b>	Basic	Polymer chemistry		
												my choice	Research methodology		

								Progr	am sk	ills ch	art				
	L	earnir	ng out	come	s requ	ired fr	om th	e pro	gramr	ne					
Value				Skill	S			Kno	wledg	e		Essenti al or	Course Name	Cour se	Year/lev el
C4	СЗ	C2	C1	B4	В3	B2	B 1	A4	А3	A2	A1	option §al		Code	
✓	1	<b>V</b>	1	1	1	1	1	1	1	1	✓	Basic	Organic diagnosisi		
<b>√</b>	<b>V</b>	V	~	1	<b>V</b>	~	1	1	~	1	1	Basic	Oil chemistry		
✓	<b>V</b>	~	~	1	1	1	1	1	1	1	<b>√</b>	Basic	Clinical chemistry		the fourth
<b>✓</b>	<b>√</b>	1	1	1	~	1	1	1	V	~	<b>V</b>	Basic	Automated analysis I		The first course
<b>✓</b>	1	1	1	1	~	1	1	1	1	1	1	Basic	research project		9:-
<b>√</b>	<b>√</b>	<b>√</b>	1	1	1	1	1	1	1	1	<b>√</b>	my choice	Organic diagnosisl		
<b>√</b>	<b>√</b>	<b>V</b>	~	1	1	~	~	1	1	~	~	my choice	Optional subject		

								Progra	m ski	lls cha	irt				
	Le	arnin	goute	omes	requi	red fro	om the	e prog	ramm	e					
Value	Value				S			Kno	wledg	е		Esse ntial	Course Name	Cour	Year/lev el
C4	С3	C2	C1	B4	В3	B2	B1	A4	А3	A2	A1	or option Sal		Code	
✓	1	~	<b>✓</b>	1	1	1	1	1	1	1	1	Basic	Spectrum	1	
<b>✓</b>	1	1	1	1	1	1	1	1	1	1	1	Basic	Organic diagnosisII		
1	1	1	<b>√</b>	1	~	1	1	1	1	1	~	Basic	Instrumental analysis II		41-
1	1	1	1	1	1	1	1	1	1	1	1	my choice	EnglishIV		the fourth
<b>√</b>	1	1	1	1	1	~	1	1	1	1	1	my choice	Optional subject		The second course

	Course description	
1. Course Name		
2. Course Code	1625年1月3年1日 1487年1日 1187日 1	
	15	

4. The date th	is description w	as prepared				
455278-11-127-02-2-3						
5. Available at	tendance forms				120	
5. Number of	study hours (to	tal)\number of units (tota	1)			
7. Name of the	e course admin	istrator ( if more than one	name is m	nentioned)		Parket
lame: Email						
3. Course obje	activas			San Carlo Carlo		
s. Course obje	ctives		•	Objective	s of the	stu
			•	subject		
			•	subject		
). Teaching an	nd learning strat	regies	•	subject	The strate	gV
9. Teaching an	nd learning strat	tegies	•	subject	The strate	ву
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<ol> <li>Teaching an</li> <li>Course str</li> </ol>		regies	•	subject	The strate	ву
0. Course str Evaluation	ructure Learning	Name of the unit or	Carried Carried Carried	d learning	The strate	the
	ucture -		Carried Carried Carried			gy the wee

11. Course evaluation		
	f 100 according to the tasks assigned to the student, suc y, written exams, reports, etc	h as daily
	Required prescribed books (Methodolo	ogy, if any)
	Main references (sources)	
	books and supporting Recor references (scientific journals, reports.	mmended )
	Electronic references, websites	