

**Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department**



Academic Program and Course Description Guide

2024



University of Al Mosul
Faculty of Basic Education
Department of General Sciences



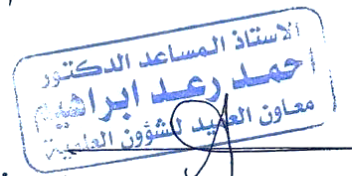
Peer review program for Iraqi universities

**Name of final degree: Bachelor of Education In general
sciences**

Academic system: semester

Description preparation date 17-3-2024

File filling date 17-3-2024



Signature: *Asst. Prof. Dr. TRWOAA TAREQ HAMEED*
Head of Department Name:

Signature:

Scientific Associate Name:

Ahmed Raad Ibrahim

Date: 17/3/2024

Date: 17/3/2024

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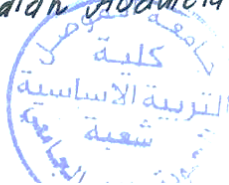
Division of Quality Assurance and University Performance

Name of the Director of the Quality Assurance and University
Performance Division *Dr. Halah Abdulrahman Mohammed*

Date: 17/3/2024

Signature:

Hal



Authentication of the Dean

1. Program vision

Seeking college Basic Education to be one of the leading higher education institutions at the University of Mosul In the field of modern education and scientific research through its scientific, research and administrative activities, it also works to provide an integrated path for its students and professors to make them active and creative in serving society in the fields of learning and teaching living languages.

2. Program message

Working to prepare and graduate leading scientific and leadership competencies in languages, sciences and literature, and to develop the balance of knowledge in the field of scientific research to serve the local, regional and international community, as well as training and refining the minds of students scientifically and cognitively, and emphasizing social and cultural values and responding to the requirements of the local market.

3. Program Goals

- 1. Embodying the vision, mission and goals of a university Kufa , and applying the best educational practices with a focus on ensuring and enhancing quality and performance.**
- 2. Preparing specialized cadres capable of serving the community and preparing for the preparation of future specializations.**
- 3. Spreading the culture of human diversity in society, transferring knowledge and linguistic skills, writing academic research, and creative scientific achievement through student- and teaching-focused activities.**
- 4. The college seeks to conclude scientific and cultural cooperation agreements with corresponding colleges and corresponding departments in different colleges to achieve best practices in the fields of teaching, learning and translation.**
- 5. Focusing on the educational and moral aspects of all its members and spreading the spirit of dedication, tolerance, commitment and work to serve the nation.**
- 6. Paying attention to intellectual and cultural construction through openness to the experiences of other countries in the fields of languages, literature and translation.**
- 7. Focusing on the educational and moral aspect of the student and instilling a spirit of dedication, tolerance and commitment.**

4. Program accreditation
nothing

5. Other external influences
nothing

6. Program structure				
comments *	percentage	Study unit	Number of courses	Program structure
Basic course		90	90	Enterprise requirements
			Yes	College requirements
			Yes	Department requirements
			nothing	summer training
				Other

7. Program description				
Credit hours		Name of the course or course	Course or course code	Year/level
practical	theoretic al			
	2	Arabic	BEAR24 F1061	2023-2024/ first
2	1	Computer	BEMA24F1121	
	2	Basics of psychology	BEKI24F1041	
	3	General biology	BESC24F1091	

	2	Logic mathematic	BESC24F1041	
	2	Fundamentals and principles of basic education	BEKI24F1031	
	2	Islamic education (civilization for non-Muslims)	BEIS24F1031	
	3	General physics	BESC24F1061	
	2	Human biology	BESC24F1081	
	2	Chemical safety and security	BESC24F1101	
	2	Arabic	BESE24F2041	2023-2024 / second biology
	2	English	BESC24F2251	
1	2	the computer	BEMA24F2041	
	2	Orientation mental health	BESE24F2051	
	2	Wave motion and sound	BESC24F2071	
	2	Material properties	BESC24F2221	
2	2	Classic mechanics	BESC24F2231	
	1	Democracy	BEHI24F2101	
	3	Educational statistics	BESE24F2041	
	2	Educational psychology	BESE24F2041	
	2	Calculus	BESC24F2081	
2	2	Optical physics	BESC24F2211	
2	2	Thermodynamics	BESC23F2091	
2	3	Electric and magnetic	BESC23F2271	
	2	Arabic	BESE24F2041	2023-2024/ Second Year Chemistry
	2	English	BESC24F2251	
1	2	the computer	BEMA24F2041	
	2	Counseling and mental health	BESE24F2051	

2	2	Inorganic chemistry	BESC24F2061	
2	2	Volumetric analytical chemistry	BESC24F2051	
2	2	physical chemistry	BESC24F2091	
	1	Democracy	BEHI24F2101	
	3	Educational statistics	BESE24F2041	
	2	Educational psychology	BESE24F2041	
2	2	Gravimetric analytical chemistry	BESC24F2181	
2	2	organic chemistry	BESC24F2041	
2	2	Chemistry of represented elements	BESC24F2171	
	2	Calculus	BESC24F2201	
				2023-2024 / second Biology
	2	Arabic	BESE24F2041	
	2	English	BESC24F2251	
1	2	the computer	BEMA24F2041	
	2	Orientation mental health	BESE24F2051	
2	2	Microbiology	BESC24F2021	
2	2	cytology	BESC24F2141	
-	2	Virology	BESC24F2151	
	1	Democracy	BEHI24F2101	
	3	Educational statistics	BESE24F2041	
	2	Educational psychology	BESE24F2041	

2	2	Invertebrate science T	BESC24F2121	
2	2	Histology and embryology	BESC24F2131	
	2	Biochemistry	BESC23F2301	
2	2	Plant Physiology	BESC23F2311	

				2023-2024 / Third Physics
	2	Arabic	BESC24F3011	
	3	General teaching methods	BESKI24F3071	
	3	Educational research methodology	BEKI24F3101	
	3	Modern physics	BESC24F3341	
	2	Quantum mechanics	BESC24F2231	
	2	Astronomy	BESC24F3231	
-	2	English	BEEN24F3011	
	2	Curricula and textbooks	BEKI24F4061	
2	2	Electronics science	BESC23F3271	
	3	Solid state physics	BESC23F3321	
2	2	Methods of teaching science	BEKI23F3071	
2	2	Radioactivity	BESC24F3241	
				2023-2024 / Third Chemistry
	2	Arabic	BESC24F3011	
	3	General teaching methods	BESKI24F3071	

	3	Educational research methodology	BEKI24F3101	
2	2	Coordination Chemistry	BESC24F3301	
2	2	Organic mechanics	BESC24F3221	
2	2	Industrial chemistry	BESC23F3071	
-	2	English	BEEN24F3011	
	2	Curricula and textbooks	BEKI24F4061	
2	2	Oil and petrochemicals	BESC23F3191	
2	2	Biochemistry	BESC23F3011	
	2	Methods of teaching science	BEKI23F3071	
2	2	Soil chemistry	BESC24F3241	
				2023-2024 / Third Biology
	2	Arabic	BESC24F3011	
	3	General teaching methods	BESKI24F3071	
	3	Educational research methodology	BEKI24F3101	
2	2	animal Physiology	BESC24F3171	
2	2	Parasitology	BESC24F3181	
2	3	Plant and animal production	BESC24F3331	
-	2	English	BEEN24F3011	
	2	Curricula and textbooks	BEKI24F4061	
2	2	Immunology	BESC24F3031	
2	2	world of insects	BESC24F3151	

	2	Methods of teaching science	BEKI23F3071	
	2	Plant classification	BESC24F3291	
				2023-2024 / Fourth Year Chemistry
	2	Arabic	BEAR23F4041	
	3	Professional ethics		
2	2	Educational supervision administration	BEKI23F4051	
2	1	Food industry	BESC23F4091	
-	2	General teaching methods	BESC23F4041	
	1.5	Computer		
2	2	Analytical chemistry	BESC24F4061	
	2	clinical Chemistry	BESC24F4051	
2	2	Graduation research project		
	12	Application		
				2023-2024 Fourth Physics
	2	Arabic	BEAR23F4041	
	3	Professional ethics		
2	2	Educational supervision administration	BEKI23F4051	
	2	General teaching methods	BESC23F4091	
2	1	Food industry	BESC23F4041	
	1.5	Computer		

8. Expected learning outcomes of the programme	
Knowledge	
The academic program, in its three branches, aims to achieve the educational and scientific goals of students. By	.

the end of this program, students will be able and qualified to provide the required level of various requirements of government institutions and others	
Skills	
Within the program, students develop different and diverse skills educationally, scientifically, and culturally	Within the program, students develop different and diverse skills educationally, scientifically, and culturally
Value	
Be direct and indirect. There are many direct tests, including written tests, oral tests, discussion, and active participation during the lecture Social and cultural activities at the college, university, or community level (according to the course objectives), as well as indirect ones, such as conducting questionnaires	

9. Teaching and learning strategies
Lecture method -Discussion method Method of interrogation Method of practical application in the laboratory

10. Evaluation methods
Written tests. Oral exams Activities and reports. - Active participation during the lecture

			11. Education institution
			Faculty
			Faculty Members
Number of the teaching staff	Special Requirements/	Specialization	Academic Rank

		Skills (if applicable)				
Lecture r	Staff			Special	General	
				Biophysics	physics	1. A. P.D .. Safaa Al-Din Abdullah Suleiman
				Organic	Chemistry	2. Prof. Dr. Rawaa Tariq Hamid
				Biological technologies	Biology	3. P. Walaa Hamdoun Shukr
				Inorganic	Chemistry	4. P. . Dr.. Asim Adel Sabah
				Plant production	agriculture	5. P..A. .D. Saad Ahmed
				Inorganic	Chemistry	6. Prof. Dr. Anwar Muhammad Amin
				Inorganic	Chemistry	7. A..P..D. Muhammad Fathi Khalil
				Biochemistry	Chemistry	8. A..P..D. Intisar Ghanem Taha
				Plant	Biology	9. A.P.D . Ghaida Salah
				Laser	Physics	10. A.P . Duraïd Hazem
				Plasma physics	Physics	11. L . Thamer Muhammad Ali
				Microbiology	Biology	12. L. . Farah Younis Hussein
				Microbiology	Biology	13. L .D. Omar Ghayath Muhammad
				Analytical Chemistry	chemistry	14. L.D. . Dhuri Ziad Fathallah

				Embryonic tissue	Biology	15. L.D. Saimaa Sami Saleh
				Microbiology	Biology	16. L.D. . Mohsen AliAhmed
				Thioritical Physics	physics	17. L.D. . Saja Ismail Khalil
				Inorganic	Chemistry	18. L. D. . Anas Hazem Muhammad
				Animal physiology	Biology	19. L..D. Ali Esmat Sharif
				Solid physics	physics	20. L . Sahar Abdul Ghani
				Animal physiology	Biology	21. L . Omar Qidar Hassan
				Nuclear physics	Physics	22. L Hala Diaakharoofa
				Microbiology	Biology	23. L . Israa Nazim Lateef
				Teaching methods	Teaching methods	24. L.. Heba Muhammad Saleh
				Industrial	chemistry	25. A.I.. Ahmed Saad Allah Ahmed
				Artificial intelligence	Software engineering	26. A. L . Roaa Amer hussin
				Physics	physics	27. A.I . . Hala Akram Hadi
				Geochemistry	Geologist	28. A.I. . Ali Salem Thanoun
				Plant protection	agriculture	29. M. M. Laith Hamdi Abdullah
				Physics	physics	30. A.L. . Saba, Suleiman
				Inorganic	chemistry	31. A.L. . Iman Ramzi Muhammad

				Inorganic	chemistry	32. M.M. Iman Muhammad Yahya
				Biology	Biology	33. A.L. . Ahmed Saadi Jabr
				Biology	Biology	34. M. M. Nawras Talal Ghanem
				Teaching methods	Teaching methods	35. A.L..Shaima Maher Muhammad
				Biology	Biology	36. A.L. Ahmed Thabit Jabar
				Biology	Biology	37. A. L. Noraws Talal Ghanim
				Physics	Physics	38. A. L. Abdul Mo'min hameed
				Biology	Biology	39. A.L. Shyma mohamed taher
				Biology	Biology	40. A.L. . Alaa Ibrahim Ahmed
				Plant protection	agriculture	41. A.L Nashwan Hazim mohamed
				Chemistry	Chemistry	42. A.L. Saada Mohammed Ali
				Industrial chemistry	Chemistry	43. A.L Argam Khairy Ayoob
				Inorganic	Chemistry	44. A.I. Ahmed Abdul Mohsin
				Biology	Biology	45. A.L. Shirin hussin Yonis
				Embryonic tissue	Biology	46. L. Najlaa Gazal Fathi

12. Professional Development

Mentoring new faculty members

Briefly describes the process used to mentor new, visiting, full-time, and part-time .faculty at the institution and department level

Professional development of faculty members

The increasing use of materials and references that rely on information technology or the Internet

Change in course content based on the results of new scientific research in the field, updating the infrastructure and ongoing programs, experimenting with different methods of teaching (distance, automated, traditional, etc

13. Acceptance Criterion

 **Central admission takes place through the Ministry of Higher Education and Scientific Research.**

14. The most important sources of information about the program

- Methodological books approved by sectoral committees.
- Basic references for each course.
- Foreign sources that support each course.
- Scientific journals, reports...etc
- E-books, websites, etc
- Field visits through observation material for all departments

15. Program Development Plan

Searching for modern sources from reliable electronic sites, as well as diversity in methods of delivering lectures and using all modern methods used in teaching.

Curriculum skills chart																			
Please check the boxes corresponding to the individual learning outcomes from the program subject to evaluation																			
Learning outcomes required from the programme																			
General and transferable skills (or) Other skills related to employability and personal development				thinking skills				Subject-specific skills				Knowledge and understanding				Basic Or optional	Course Name	Course Code	Year/level
D4	D3	D2	D1	C4	C3	C2	C1	B4	B3	B2	B1	A4	A3	A2	A1				
		/	/	/	/	/			/	/		/	/	/	/		general chemistry	BESC22F1021	
/	/				/	/	/			/	/	/	/	/	/		Logic (mathematics)	BESC22F1041	
	/	/	/	/					/	/			/	/	/		General physics	BESC22F1061	
	/	/	/		/	/	/	/					/	/	/		Human biology	BESC22F1081	
																	biology	BESC22F1091	
																	Laboratory security and safety	BESC22F1101	

/	/	/			/	/			/	/	/		/	/	/		Arabic	BEAR22F1061	
/	/	/		/	/							/	/	/	/		human rights	BEHI22F1051	
		/	/	/				/		/	/		/	/	/		Basics of psychology	BEKI22F1041	
	/					/	/			/		/	/	/	/		the computer	BEMA22F1051	
		/	/	/			/	/	/			/	/	/	/		English	BEEN22F1111	
			/	/	/	/							/	/	/		Islamic education	BEIS22F1031	
							/	/	/	/			/	/	/		Principles of basic education	BEKI22F1031	
				/	/	/				/	/	/					Invertebrates	BESC22F2121	The second phase
		/	/		/	/	/						/	/			Histology	BESC22F2131	
/	/	/		/	/			/		/	/	/	/				cytology	BESC22F2141	
	/					/	/			/		/	/	/	/		the computer	BEMA22F2041	

/				/	/	/		/		/	/		/	/	/		Microbiology	BESC 22F2021	
/				/	/	/		/		/	/		/	/	/		Environment and pollution	BESC 22F2011	
				/	/	/		/		/	/		/	/	/		Virology	BESC22F2151	
/			/	/	/								/	/	/		organic chemistry	BESC 22F2041	
/							/	/		/	/	/	/	/			Embryology	BESC 22F2261	
/			/	/	/			/	/	/			/	/	/		Soil chemistry	BESC 22F2281	
/						/	/	/				/	/	/			Inorganic chemistry 1	BESC22F2061	
/						/	/	/				/	/	/			Inorganic chemistry 2	BESC22F2171	
	/	/	/		/	/	/			/	/			/			Analytical chemistry 1	BESC22F2051	
	/	/	/		/	/	/			/	/			/			Analytical Chemistry 2	BESC22F2181	
/				/	/	/	/			/	/		/		/		Physical chemistry	BESC22F2191	
/										/	/	/	/	/	/		Calculus	BESC 22F2081	

/			/	/	/		/	/		/	/	/	/	/	/		Heat and thermodynamics	BESC 22F2091	
/			/	/	/					/	/	/	/	/	/		Optical physics	BESC22F2211	
/			/	/	/		/	/		/	/	/	/	/	/		Wave motion and sound	BESC22F2071	
							/	/		/	/	/					Material properties	BESC22F2221	
/	/			/	/	/		/		/		/		/			Physics of mechanics	BESC22F2231	
/						/	/	/	/	/	/	/	/				Linear algebra	BESC 22F2201	
/	/			/	/					/	/	/	/	/	/		Electrical physics	BESC 22F2271	
/	/			/	/		/	/		/	/	/	/	/	/		Environmental and health education	BESC22F2241	
	/	/		/	/					/	/	/	/	/	/		English	BEEN22F2251	
/	/	/		/	/		/	/		/	/	/	/	/	/		Democracy	BEHI22F2101	

/				/	/					/	/	/	/	/	/		Arabic	BEAR22F2041	
/				/	/		/	/		/	/	/	/	/	/		Educational psychology	BESE22F2041	
	/					/	/			/		/	/	/	/		the computer	BEMA22F2051	
	/	/	/	/			/	/			/	/			/		Psychological health	BESE22F2051	
/	/	/	/			/	/				/	/	/	/	/		Educational guidance	BEKI22F2131	
/	/			/	/					/	/	/	/	/	/		Educational statistics	BEKI22F2141	
/	/			/	/		/	/		/	/	/	/	/	/		Biochemistry1	BESC22F3011	third level
/	/			/	/		/	/		/	/	/	/	/	/		Biochemistry 2	BESC22F3311	
	/	/		/	/					/	/	/	/	/	/		Vegetable production	BESC22F3021	
/				/	/					/	/	/	/	/	/		Microbiology	BESC22F3041	
/				/	/		/	/		/	/	/	/	/	/		Phosphorus is a plant	BESC22F3051	
	/	/	/	/			/	/			/	/			/		Organic Chemistry1	BESC22F3061	

/	/	/	/			/	/				/	/	/	/	/		Industrial Chemistry1	BESC22F3071	
/				/	/	/		/		/	/		/	/	/		Coordination inorganic chemistry	BESC22F3301	
/				/	/	/		/		/	/		/	/	/		Electrical physics	BESC22F3091	
				/	/	/		/		/	/		/	/	/		Physical chemistry	BESC22F3101	
/			/	/	/								/	/	/		Atomic physics	BESC22F3111	
/							/	/		/	/	/	/	/			Relativistic physics	BESC22F3121	
/			/	/	/			/	/	/			/	/	/		Quantum physics	BESC22F3131	
/						/	/	/				/	/	/			animal production	BESC22F3141	
	/	/	/		/	/	/			/	/			/			Insects	BESC22F3142	
/				/	/	/	/			/	/		/		/		Immunology	BESC22F3031	
/				/	/	/		/		/	/		/	/	/		Faslaja is an animal	BESC22F3144	
/				/	/	/		/		/	/		/	/	/		Parasitology	BESC22F3145	

				/	/	/		/		/	/		/	/	/		Industrial Chemistry2	BESC22F3146	
/			/	/	/								/	/	/		My lunch metabolism	BESC22F3147	
/							/	/		/	/	/	/	/			Organic diagnosis 3	BESC22F3148	
/			/	/	/			/	/	/			/	/	/		Organic chemistry2	BESC22F3149	
/						/	/	/				/	/	/			Astronomy	BESC22F3150	
	/	/	/		/	/	/			/	/			/			Radioactivity	BESC22F3151	
/				/	/	/	/			/	/		/		/		Solid physics	BESC22F3321	
	/	/	/	/					/	/			/	/	/		Electronic	BESC22F3154	
				/	/	/			/	/			/	/	/		to watch	Without code	
	/	/	/		/	/	/	/					/	/	/		Algae fungi	BESC22F3281	
/	/	/			/	/			/	/	/		/	/	/		Zoning (taxonomy)	BESC22F3291	
																	the computer		

																	Arabic		
	/					/	/			/		/	/	/	/		Research Methods	BEKI22F3101	
			/	/	/	/	/		/	/			/	/	/		Educational techniques	BEAR22F3061	
	/	/	/	/					/	/			/	/	/		Measurement and evaluation	BEKI22F3061	
			/	/	/	/	/		/	/			/	/	/		General teaching methods	BEKI22F3071	
	/	/	/	/					/	/			/	/	/		Scientific education (watching)	Without code	
				/	/	/			/	/			/	/	/		Genetics	BESC22F4011	The fourth stage
	/	/	/		/	/	/	/					/	/	/		Serums and vaccines	BESC22F4031	
/	/	/			/	/			/	/	/		/	/	/		General teaching methods	BESC22F4041	

/	/	/		/	/							/	/	/	/		Clinical biochemistr y	BESC22F4051	
			/	/	/	/	/		/	/			/	/	/		Analyze me	BESC22F4061	
	/	/	/	/					/	/			/	/	/		Laser	BESC22F4081	
				/	/	/			/	/			/	/	/		Electromagn etism	BESC22F4091	
	/	/	/		/	/	/	/					/	/	/		Food industry science	BESC22F4021	
/	/	/		/	/							/	/	/	/		Arabic	BEAR22F4041	
																	the computer		
		/	/	/			/	/	/			/	/	/	/		Curricula and textbooks	BEKI22F4061	
	/					/	/			/		/	/	/	/		Educational administrati on and supervision	BEKI22F4051	

			/	/	/	/	/		/	/			/	/	/		Graduation research project		
	/	/	/	/					/	/			/	/	/		Scientific education (application)		

