



Ministry of Higher Education and Scientific Research University of Anbar Education College for Women

Department of Chemistry



Scientific Guide 2020-2021

Vision

Introduction:

The Department of Chemistry was founded as one of the departments of the College of Education for Girls in 1990. The study period is four years to obtain a bachelor's degree in chemistry, and the first course graduated in 1993-1994. The idea of establishing the department was to be a base for building and refining students' talents, developing their capabilities in all fields of chemistry, and providing a research environment concerned with applying the latest technological developments to sustain national development and at the educational level. The department seeks to raise students in the spirit of perseverance, self-confidence, and continuing to acquire science according to sound scientific methods, including It serves the scientific process and keeps pace with ongoing developments.

1-1 Vision:

The department aspires to be one of the internationally recognized and classified chemistry departments at the research and academic levels for excellence in student education, innovative scientific research, and community participation that contributes to economic growth, to keep pace with the requirements of the times and its rapid developments, to meet the huge challenges and requirements of the practical and academic reality, and to find solutions and alternatives in order to achieve The interest of the country.

1-2 The mission:

The Chemistry Department seeks to build and refine students' talents and develop their capabilities in all fields of chemistry and provide a research environment concerned with applying the latest technological developments to sustain national development. On the educational level, the department seeks to raise students in the spirit of perseverance and self-confidence and to continue acquiring science according to sound scientific methods so that they have the ability to be creative. And innovation after graduation and keeping pace with scientific and technological development.

Teaching staff in the Education College for Women/Department of Chemistry

1	Dr. Riyad Mohamed Jihad Ph.D. – Analytical Chemistry Head of the Department - Assistant Professor
2	Dr. Firas Fadel Ali
	PhD - Analytical Chemistry
	Assistant Dean for Scientific Affairs - Assistant Professor
3	Dr. Nabil Arif Tawfiq
	PhD - Inorganic Chemistry Department Rapporteur – Teacher
4	Dr. Eid Saleh Muhammad
	PhD - Inorganic Chemistry Teaching - Assistant Professor

5	Dr. Saada Abdul Abdullah PhD - Physical Chemistry Teaching - Assistant Professor
6	Dr. Mohamed Adi Ezzat Ph.D Biophysical Chemistry Teaching - Assistant Professor
7	Dr. Abdul Sattar Ali Hussein PhD - Mathematics - Approximation of functions Teaching - teacher
8	- Teacher Khaled Abdel Jassim Master - Mathematics - Dali Analysis Teaching-teacher
9	Dr. Bushra Turki Mahdi PhD - Organic Chemistry Teaching-teacher

10	Dr. Sahar Amer Ahmed PhD - Biochemistry Teaching-teacher
11	Dr. Rasha Azzam Abdullah PhD - Organic Chemistry Teaching-teacher
12	Dr. Eman Mohammad Khalaf PhD - Physical Chemistry Teaching – teacher
13	Mrs. Alaa Abdel Moneim Abdel Majeed Master's degree - Biochemistry Teaching-teacher

Scientific Guide to the Department of chemistry - Department Code 5 (EWC)

14	Mrs. Iman Hossam Mohamed Master's degree - Analytical Chemistry Teaching-teacher
15	Mrs. Dina Hamid Zidane Master's degree - Inorganic Chemistry Teaching assistant teacher
16	Mrs. Nibras Youssef Abdullah Master's degree in industrial chemistry Teaching - assistant teacher
17	Mrs. Nibras Bassam Muhammad Master's degree in physical chemistry Teaching - assistant teacher
18	Mrs. Raghad Khaled Khamas Master's degree in biochemistry Teaching - assistant teacher
19	Mrs. Maysoon Ibrahim Ahmed Master's degree in industrial chemistry Teaching - assistant teacher

20		Mrs. Bida Hussein Ayada Master's degree - Chemistry Teaching - assistant teacher
21		Mrs. Farah Samir Selim Master's degree - Chemistry Teaching - assistant teacher
22	10	Mrs. Nour Fakhri Muhammad Master's degree - Chemistry Teaching - assistant teacher
23		Mrs. Rahma Salem Abdullah Master's degree - Chemistry Teaching - assistant teaching

Stage	Names of academic subjects	Code
First	Arabic language	EWC 1101
First	English language	EWC 1102
First	Educational Psychology	EWC 2101
First	Human rights	EWC 2102
First	Foundations of education	EWC 2103
First	Biology	EWC 3101
First	Computer-1	EWC 3102
First	Mathematics -1	EWC 3103
First	Analytical-1	EWC 3104
First	Analytical- 2	EWC 3105
First	Organic-1	EWC 3106
First	Organic- 2	EWC 3107
First	Inorganic-1	EWC 3108
First	Inorganic-2	EWC 3109
Second	Developmental psychology	EWC 2201
Second	Freedoms	EWC 2202
Second	Educational administration	EWC 2203
Second	Mathematic-2	EWC 3201
Second	Physics	EWC 3202
Second	Teaching research	EWC 3203
Second	Computer-2	EWC 3204
Second	Organic-3	EWC 3205

Courses – Department's specialized requirements and codes

Second	Inorganic-3	EWC 3206
Second	Physical -1	EWC 3207
Second	Analytical –3	EWC 3208
Third	Guidance and psychological health	EWC 2301
Third	Feaching curricula and methods	EWC 2301
Third	Pollution	EWC 3301
Third	Organic-4	EWC 3302
Third	Organic-5	EWC 3303
Third	Industry-1	EWC 3304
Third	Physical -2	EWC 3305
Third	Physical-3	EWC 3306
Third	Inorganic-4	EWC 3307
Third	Biochemistry-1	EWC 3308
Fourth	Measurement and evaluation	EWC 2401
Fourth	Teaching applications	EWC 2402
Fourth	Optional	EWC 3401
Fourth	Graduation research	EWC 3402
Fourth	Biochemistry- 2	EWC 3403
Fourth	Biochemistry-3	EWC 3404
Fourth	Quantum and spectroscopy	EWC 3405
Fourth	Organic diagnosis	EWC 3406
Fourth	Automated analysis	EWC 3407
Fourth	Industrial-2	EWC 3408

The First stage

Second Semester								First	Semeste	r	
Units	Totals of hours	Hours of practical	Hours of theoretical	Subject		Units	Totals of hours	Hours of practical	Hours of theoretical	Subject	
3,5	5	3	2	Analytical 2- Chemistry		3,5	5	3	2	Analytical Chemistry-1	1
3,5	5	3	2	Organic Chemistry-2		3,5	5	3	2	Organic Chemistry-1	2
2	2	-	2	Inorganic Chemistry-2		2	2	-	2	Inorganic Chemistry-1	3
3	4	2	2	Biology		3	4	2	2	Computer	4
2	2	-	2	Mathematics		2	2	-	2	Educational Psychology	5
2	2	-	2	Foundations of education		2	2	-	2	Arabic language	6
2	2	-	2	English language		2	2	-	2	human rights	7
18	22	8	14	Total		18	22	8	14	Total	-

	S	econd	Seme	ster			First	Sem	ester	
Units	Totals of hours	Hours of practical	Hours of theoretical	Subject	Units	Totals of hours	Hours of practic al	Hours of theor etical	Subject	N
5,5	7	3	4	Analytical Chemistry	5,5	7	3	4	Inorganic Chemistry	1
5,5	7	3	4	Physical Chemistry	5,5	7	3	4	Organic Chemistry	2
2	2	-	2	Mathematics	3	4	2	2	Computer	3
2	2	-	2	Educational administration	2	2	-	2	Developmental psychology	4
2	2		2	Freedoms	2	2	-	2	Teaching research	5
					2	2	-	2	Physics	6
17	20	6	14	Total	20	24	8	16	Total	

The second stage

Second Cours							Firs	t Sen	nester		
Units	Totals of hours	Hours of practic al	Hour s of theor etical	Subject	Ν	Units	Totals of hours	Hou rs of prac tical	Hou rs of theo retic al	Subject	Ν
3,5	5	3	2	(2) Organic Chemistry	1	3,5	5	3	2	Organic Chemistry (1)	1
3,5	5	3	2	Physical Chemistry (2)	2	3,5	5	3	2	Physical Chemistry(1)	2
5,5	7	3	4	Industrial Chemistry	3	5,5	7	3	4	Coordination chemistry	3
2,5	3	1	2	Pollution	4	4	4	-	4	Biochemistry	4
2	2	-	2	Guidance and psychological health	5	2	2	-	2	Teaching curricula and methods	5
17	22	10	12	Total		18,5	23	9	14	Total	

The Third stage

The F	'ourth	stage
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	Se	cond s	Semes	ster		-	First	Sem	ester	
Units	Totals of hours	Hours of practical	Hours of theoret ical	Subject	Units	Totals of hours	Hours of practic al	Hours of theor etical	Subject	N
3,5	5	3	2	Biochemistry (2)	3,5	5	3	2	Biochemistry (1)	1
4	4	-	4	Industrial Chemistry	5,5	7	3	4	Automated analysis	2
2	2	-	2	Optional	3,5	5	3	2	Organic diagnosis	3
2	2	-	2	Quantum and spectroscopy	2	2	-	2	Measurement and evaluation	4
3	4	2	2	Teaching applications	1,5	3	3	-	Graduation research	5
					2	4	4	-	Educational	6
14,5	17	5	12	Total	18	26	16	10	Total	

The total number of units = 141 units The total number of hours = 176 hours.
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Courses – Department's specialized requirements

Course description:

Inorganic.1 :EWC 3108

This Programme Specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably beexpected 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.

Inorganic. 2: EWC 3109

This Course Specification provides a concise summary of the main features of the course 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 should be cross-referenced with the programme specification.

Organic. 1 : EWC 3106

This Course Specification provides a concise summary of the main features of the course 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 should be cross-referenced with the programme specification.

Organic. 2: EWC 3107

This Course Specification provides a concise summary of the main features of the course 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 should be cross-referenced with the programmed specification.

Analytical 1 :EWC 3104

This course specification provides a concise summary of the main features of the course 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 should be cross-referenced with the programmed specification. In addition, the course aims to develop depth and breadth of chemistry knowledge, and to develop a wide range of laboratory and analytical skills, enhanced problem solving, research and communication skills. In addition, understanding the volumetric analysis and instrumental analysis.

Organic 3: EWC 3205

This Course Specification provides a concise summary of the main features of the course 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 should be cross-referenced with the programme specification.

Inorganic 3: EWC 3206

This Course Specification provides a concise summary of the main features of the course 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 should be cross-referenced with the programme specification.

Physical 1: EWC 3207

This Programme Specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably beexpected 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.

Industry 1: EWC 3304

This Course Specification provides a concise summary of the main features of the course 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 should be cross-referenced with the programme specification.

Physical 2: EWC 3305

This Programme Specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably beexpected 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.

Physical 3: EWC 3306

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.

Inorganic 4: EWC 3307

This Course Specification provides a concise summary of the main features of the course 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 should be cross-referenced with the programme specification.

Biochemistry 1: EWC 3308

This Course Specification provides a concise summary of the main features of the course 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 should be cross-referenced with the programmed specification. In addition, this course aims to knowledge and understanding and familiarize the student with the concept of biochemistry. The student will know how the body can made compounds and can get to energy and understand the methods of the energy source.

Biochemistry 3: EWC 3404

This Course Specification provides a concise summary of the main features of the course 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 should be cross-referenced with the programmed specification.

Organic diagnosis: EWC 3406

In general, this Course Specification provides a concise summary of the main features of the course 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 should be cross-referenced with the programmed specification. In addition, the aim of this course in understanding the meaning of the organic identification by using Spectroscopic diagnosis, what is the Spectroscopic diagnosis?

Spectroscopic diagnosis: is knowing the molecular and structural formula of an unknown organic compound using spectroscopic devices. In this method, organic compounds can be diagnosed in a short period of time and with precise and accurate results.

Automated analysis: EWC 3407

This programmer Specification provides a concise summary of the main features of the programmed 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 programmer. The course aims in preparing graduates with high theoretical and practical skills to meet the needs of education in schools and community service in the field of teaching. 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.

Industrial 2: EWC 3408

This Course Specification provides a concise summary of the main features of the course 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 should be cross-referenced with the programme specification.

Mathematics -1: EWC 3103

This Programme Specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably beexpected 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.

Physics : EWC 3202

This Programme Specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably beexpected 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.