

Annual Course Report 2022-2023

A- Basic Information		
1- Title and code:	Aliphatic Organic Chemistry (1) (211 Ch)	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	2022-2023 /Second level (undergraduate)	
4- Teaching hours	Lectures hrs. /week	2
	Tutorial hrs. /week	0
	Practical hrs. /week	3
	Total hrs. /week	5
4- Credit hours	Total credit hrs.	3

5- Names of lecturers contributing to the delivery of the course:		
Prof.Dr. Wagdy El-dougDoug Undergraduate		
Prof.Dr Ali Abdel Maaboud		
Course coordinator:		
Prof.Dr. Wagdy El-dougDoug		
Prof.Dr Ali Abdel Maaboud		
External evaluator: None		

B- Statistical Information

No. of students attending the course:	No. 82	100 %
No. of students completing the course:	No. 82	100%
Results:		

	No.	%	Grading of successful students:	
Passed	78	95.1	No.	%
Failed	4	4.9	Excellent	19 23.2
			Very Good	25 30.5
			Good	27 32.9
			Pass	7 8.5

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours	% of total
1. Halogenic derivatives of hydrocarbons	2	0	3	17.4%
2. Alcohols	2	0	3	17.4%
3. Ethers	2	0	3	17.4%
4. Sulphur compounds of alcohols	2	0	3	17.4%
5. Sulphur compounds of ethers	2	0	3	17.4%
6. Aldehydes	2	0	3	17.4%
7. Mid-term exam	2	0	3	17.4%
8. Ketones	2	0	3	17.4%
9. Monocarboxylic acids	2	0	3	17.4%
10. Esters	2	0	3	17.4%
11. Amides	2	0	3	17.4%
12. Amines	2	0	3	17.4%
13. Anhydrides	2	0	3	17.4%
14. Revision	2	0	3	17.4%
Total hours	28	0	42	100%

Topics taught as a percentage of the content specified:

>90 % 70-90 % <70%

Reasons in detail for not teaching any topic: None

If any topics were taught which are not specified, give reasons in detail: None

Achieved program intended learning outcomes, ILO's:

Knowledge and Understanding	Intellectual skills	Practical and professional skills	General skills
a1 to a6	b1 to b4	c1	d1 to d2

2- Teaching and learning methods:

Lectures: Using information technology, Lecture, Presentations, Problem solving, Discussions, Seminars and Brain storming

Practical training/ laboratory: Carrying out some chemical experiments in chemistry department lab.

Seminar/Workshop: Field work is still needed

Class activity:

Using computer and data show during discussion

Case Study:

None

Other assignments/homework: weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons: None

3- Student assessment:

Tools	To Measure	Time schedule	Grading
Semester Work	a1, a2, a4, b1, b2 and d1	Fifth week	3 %
Mid-Term Exam	a1, a2, a3, a5, b1, b2, d1, and d2	Seventh week	3 %
Oral exam	a1, a2, a3, a4, a5, a6, b1, b2, b3, and d2	Fifteenth week	6 %
Practical exam	c1	Sixteenth week	40%
Written exam	a1, a2, a3, a4, a5, a6, b1, b2, b3.	Seventeenth week	48 %
Total			100 %

Members of examination committee

Prof.Dr. Wagdy El-dougDoug
Prof.Dr Ali Abdel Maaboud

Role of external evaluator None

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent: Microphones functionality should be checked before semester begins

Inadequate

List any inadequacies: None

5- Administrative constraints

List any difficulties encountered: None

6- Student evaluation of the course: None

7- Comments from external evaluator(s): None

8- Course enhancement:

Progress on actions identified in the previous year's action plan:

Actions required	Person responsible	Progress of action
Development of student skills; participating of all students (in groups) in collecting (using international websites) some scientific parts supporting the basic contents of the course. Also, all these activities will be evaluated by the instructor of the course.	Head of the department and all course instructors	Activity of skills development , scientific parts supporting the basic contents of the course, was performed

Action State whether or not completed and give reasons for any non-completion

None

9- Action plan for academic year 2022 – 2023

Actions required	Person responsible	Completion date
As a continuation in skills development, all students (in groups) will try to make a linkage between the basic theoretical contents of the course and the practical applications that can be used based on these theoretical aspects.	Head of the department and all course instructors	By the beginning of the second semester of the academic year 2022-2023

Course coordinator:

Prof.Dr. Wagdy El-dougDoug
Prof.Dr Ali Abdel Maaboud

Program coordinator:

Prof. Dr. Safinaz M. Reda

Head of the Department:

Prof. Dr. Wagdy El-DougDoug

Date:

2022-2023

Annual Course Report 2022-2023

A- Basic Information		
1- Title and code:	Aliphatic Organic Chemistry (2) (213 Ch)	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	2022-2023 /Second level (undergraduate)	
4- Teaching hours	Lectures hrs. /week	2
	Tutorial hrs. /week	1
	Practical hrs. /week	0
	Total hrs. /week	3
4- Credit hours	Total credit hrs.	2

5- Names of lecturers contributing to the delivery of the course:		
Dr. Amaal Younis		
Dr. Enas Abdel Alim		
Course coordinator:		
Dr. Amaal Younis		
Dr. Enas Abdel Alim		
External evaluator: None		

B- Statistical Information

No. of students attending the course: No. **9** 100 %
 No. of students completing the course: No. **7** 77.8 %
 Results:

	No.	%	Grading of successful students:	
Passed	4	44.4	No.	%
Failed	5	55.6	Good	1 11.1
			Pass	3 33.3

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours	% of total
1. Introduction	2	0	0	17.4%
2. Aliphatic cycloalkanes	2	0	0	17.4%
3. Dienophiles and their applications	2	0	0	17.4%
4. Unsaturated alcohols (synthesis and applications)	2	0	0	17.4%
5. Polyhydric alcohols (Di & Trihydric alcohols)	2	0	0	17.4%
6. Polyhydric alcohols in industrial field	2	0	0	17.4%
7. Mid-term exam	2	0	0	17.4%
8. Polycarboxylic acids	2	0	0	17.4%
9. Hydroxy acids	2	0	0	17.4%
10. Unsaturated organic acids	2	0	0	17.4%
11. Organic compounds with active methylene group	2	0	0	17.4%
12. Synthesis and of active methylene compounds	2	0	0	17.4%
13. Applications of naphthenes in industrial field	2	0	0	17.4%
14. Revision	2	0	0	17.4%
Total hours	28	0	0	100%

Topics taught as a percentage of the content specified:

>90 % 70-90 % <70%

Reasons in detail for not teaching any topic: None

If any topics were taught which are not specified, give reasons in detail: None

Achieved program intended learning outcomes, ILO's:

Knowledge and Understanding	Intellectual skills	Practical and professional skills	General skills
a1 to a6	b1 to b4	c1 to C3	d1 to d2

2- Teaching and learning methods:

Lectures: Using information technology, Lecture, Presentations, Problem solving, Discussions, Seminars and Brain storming

Practical training/ laboratory: None

Seminar/Workshop: Field work is still needed

Class activity:

Using computer and data show during discussion

Case Study: None

Other assignments/homework: weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons: None

3- Student assessment:

Tools	To Measure	Time schedule	Grading
Semester Work	a1, a2, a3, b2 and d1	Fifth week	5 %
Mid-Term Exam	a1, a2, a3, a5, a6, b2, b3, d1, and d2	Seventh week	5 %
Oral exam	a1, a2, a3, a4, a5, a6, b1, b2, b3, d1 and d2	fifteenth week	10 %
Written exam	a1, a2, a3, a4, a5, a6, b1, b2, b3.	sixteenth week	80 %
Total			100 %

Members of examination committee

Dr. Amaal Younis

Dr. Enas Abdel Alim

Role of external evaluator

None

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent: Microphones functionality should be checked before semester begins

Inadequate

List any inadequacies: None

5- Administrative constraints

List any difficulties encountered: None

6- Student evaluation of the course:

None

7- Comments from external evaluator(s):

None

8- Course enhancement:

Progress on actions identified in the previous year's action plan:

Actions required	Person responsible	Progress of action
Development of student skills; participating of all students (in groups) in collecting (using international websites) some scientific parts supporting the basic contents of the course. Also, all these activities will be evaluated by the instructor of the course.	Head of the department and all course instructors	Activity of skills development , scientific parts supporting the basic contents of the course, was performed

Action State whether or not completed and give reasons for any non-completion

None

9- Action plan for academic year 2022 – 2023

Actions required	Person responsible	Completion date
As a continuation in skills development, all students (in groups) will try to make a linkage between the basic theoretical contents of the course and the practical applications that can be used based on these theoretical aspects.	Head of the department and all course instructors	By the beginning of the second semester of the academic year 2022-2023

Course coordinator:

Dr. Amaal Younis
Dr. Enas Abdel Alim

Program coordinator: Prof. Dr. Safinaz M. Reda

Head of the Department: Prof. Dr. Wagdy El-DougDoug

Date: 2022-2023

Annual Course Report 2022-2023

A- Basic Information		
1- Title and code:	Petrochemical and petroleum additives (219 Ch)	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	2022-2023 /Second level. (undergraduate)	
4- Teaching hours	Lectures hrs. /week	2
	Tutorial hrs. /week	0
	Practical hrs. /week	0
	Total hrs. /week	2
4- Credit hours	Total credit hrs.	2

5- Names of lecturers contributing to the delivery of the course:		
Prof.Dr. Mohammed Hussien		
Dr. Amr Fteha		
Course coordinator:		
Prof.Dr. Mohammed Hussien		
Dr. Amr Fteha		
External evaluator: None		

B- Statistical Information

No. of students attending the course: No. 16 100 %
 No. of students completing the course: No. 15 93.8 %
 Results:

	No.	%
Passed	15	93.8
Failed	1	6.2

Grading of successful students:			
	No.	%	
Excellent	1	6.3	
Very Good	3	18.8	
Good	5	31.3	
Pass	6	37.5	

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours	% of total
1. Introduction to the principals of petroleum chemistry	2	0	0	17.4%
2. General uses of petroleum compounds in different fields	2	0	0	17.4%
3. Application of the petroleum products in rubbers, and fibers industries	2	0	0	17.4%
4. Application of the petroleum products in industrial detergents.	2	0	0	17.4%
5. Application of the petroleum products in Pesticides and other industries	2	0	0	17.4%
6. Short notes about petroleum additives and their properties.	2	0	0	17.4%
7. Mid-Term Exam.	2	0	0	17.4%
8. Preparation of Lubricating oils from of crude oils by refining and properties of Lub. Oils	2	0	0	17.4%
9. Lubricating oils additives	2	0	0	17.4%
10. Fuels additives	2	0	0	17.4%
11. What is the gasoline?	2	0	0	17.4%
12. General properties of gasoline additives	2	0	0	17.4%
13. General properties of fuel additives	2	0	0	17.4%
14. Revision	2	0	0	17.4%
Total hours	28	0	0	100%

Topics taught as a percentage of the content specified:

>90 % 70-90 % <70%

Reasons in detail for not teaching any topic: None

If any topics were taught which are not specified, give reasons in detail: None

Achieved program intended learning outcomes, ILO's:

Knowledge and Understanding	Intellectual skills	Practical and professional skills	General skills
a1 to a5	b1 to b3	c1 to C2	d1 to d4

2- Teaching and learning methods:

Lectures: Using information technology, Lecture, Presentations, Problem solving, Discussions, Seminars and Brain storming

Practical training/ laboratory: Carrying out some chemical experiments in chemistry department lab.

Seminar/Workshop: Field work is still needed

Class activity:

Using computer and data show during discussion

Case Study:

None

Other assignments/homework: weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons: None

3- Student assessment:

Tools	To Measure	Time schedule	Grading
Semester Work	a1, a2, a3, b2, d1 and d3	Fifth week	5 %
Mid-Term Exam	a1, a2, a3, a4, b2, d1, and d2	Seventh week	5 %
Oral exam	a1, a2, a3, a4, b1, b2, b3, c1, c2, and d4	fifteenth week	10 %
Written exam	a1, a2, a3, a4, a5, b1, b2, b3.	sixteenth week	80 %
Total			100 %

Members of examination committee:

Prof.Dr. Mohammed Hussien
Dr. Amr Fteha

Role of external evaluator None

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent: Microphones functionality should be checked before semester begins

Inadequate

List any inadequacies: None

5- Administrative constraints

List any difficulties encountered: None

6- Student evaluation of the course: None

7- Comments from external evaluator(s): None

8- Course enhancement:

Progress on actions identified in the previous year's action plan:

Actions required	Person responsible	Progress of action
Development of student skills; participating of all students (in groups) in collecting (using international websites) some scientific parts supporting the basic contents of the course. Also, all these activities will be evaluated by the instructor of the course.	Head of the department and all course instructors	Activity of skills development , scientific parts supporting the basic contents of the course, was performed



Action State whether or not completed and give reasons for any non-completion

None

9- Action plan for academic year 2022 – 2023

Actions required	Person responsible	Completion date
As a continuation in skills development, all students (in groups) will try to make a linkage between the basic theoretical contents of the course and the practical applications that can be used based on these theoretical aspects.	Head of the department and all course instructors	By the beginning of the second semester of the academic year 2022-2023

Course coordinator:

Prof.Dr. Mohammed Hussien
Dr. Amr Fteha

Program coordinator:

Prof. Dr. Safinaz M. Reda

Head of the Department:

Prof. Dr. Wagdy El-DougDoug

Date:

2022-2023

Annual Course Report 2022-2023

A- Basic Information		
1- Title and code:	Chemical Thermodynamics (231 Ch)	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	2022-2023 Second level/. (undergraduate)	
4- Teaching hours	Lectures hrs. /week	2
	Tutorial hrs. /week	0
	Practical hrs. /week	0
	Total hrs. /week	2
4- Credit hours	Total credit hrs.	2

5- Names of lecturers contributing to the delivery of the course:

Dr. Asmaa AboEl-soud

Course coordinator:

Dr. Asmaa AboEl-soud

External evaluator: None

B- Statistical Information

No. of students attending the course: No. 82 100 %

No. of students completing the course: No. 82 100 %

Results:

	No.	%
Passed	80	97.6
Failed	2	2.4

Grading of successful students:

	No.	%
Excellent	32	39.1
Very Good	29	35.3
Good	13	15.9
Pass	6	7.3

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours	% of total
1. Introduction to chemical thermodynamics concepts (System, Types of process, functions, equilibrium state).	2	0	0	17.4%
2. Reversible and irreversible process, work and types of energies	2	0	0	17.4%
3. Zero law and first law of thermodynamic(statements and mathematical expressions)	2	0	0	17.4%
4. Internal energy, enthalpy and heat capacity	2	0	0	17.4%
5. Applications of first law of thermodynamics and calculations of different thermodynamic functions	2	0	0	17.4%
6. Carnot cycle and the efficiency of heat engine	2	0	0	17.4%
7. Mid-Term Exam.	2	0	0	17.4%
8. Second law of thermodynamic (statements and mathematical expressions)	2	0	0	17.4%
9. Entropy concept, microstates and its calculations	2	0	0	17.4%
10. Free energies and the direction of physical and chemical reactions	2	0	0	17.4%
11. Chemical potential and thermodynamics of solutions	2	0	0	17.4%
12. Chemical equilibrium and equilibrium constant and its relation with the free energy and its dependence on pressure and temperature part (1).	2	0	0	17.4%
13. Chemical equilibrium and equilibrium constant and its relation with the free energy and its dependence on pressure and temperature part (2).	2	0	0	17.4%
14. Revision	2	2	0	17.4%
Total hours	28	0	0	100%

Topics taught as a percentage of the content specified:

>90 % 70-90 % <70%

Reasons in detail for not teaching any topic: None

If any topics were taught which are not specified, give reasons in detail: None

Achieved program intended learning outcomes, ILO's:

Knowledge and Understanding	Intellectual skills	Practical and professional skills	General skills
a1 to a5	b1 to b4	c1 to C2	d1 to d4

2- Teaching and learning methods:

Lectures: Using information technology, Lecture, Presentations, Problem solving, Discussions, Seminars and Brain storming

Practical training/ laboratory: None

Seminar/Workshop: Field work is still needed

Class activity:

Using computer and data show during discussion



Case Study:

Other assignments/homework:

If teaching and learning methods were used other than those specified, list and give reasons:

3- Student assessment:

Tools	To Measure	Time schedule	Grading
Semester Work	a1, a2, a3, b2, and d1	Fifth week	5 %
Mid-Term Exam	a1, a2, a3, a4, b2, d1, and d2	Seventh week	5 %
Oral exam	a1, a2, a3, a4, b1, b2, b3, and d4	fifteenth week	10 %
Written exam	a1, a2, a3, a4, b1, b2, b3.	sixteenth week	80 %
Total			100 %

Members of examination committee:

Dr. Asmaa AboEl-soud

Role of external evaluator

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent: Microphones functionality should be checked before semester begins

Inadequate

List any inadequacies:

5- Administrative constraints

List any difficulties encountered:

6- Student evaluation of the course:

7- Comments from external evaluator(s):

8- Course enhancement:

Progress on actions identified in the previous year's action plan:

Actions required	Person responsible	Progress of action
Deficiency of computer and Programs. Limited days of field training due to shortage of funding from the university. Purchasing more specific references and tools.	Head of the department and all course instructors	The course note is updated and the instructor helped in developing the practical course experiments

Action State whether or not completed and give reasons for any non-completion



9- Action plan for academic year 2022 – 2023

Actions required	Person responsible	Completion date
Update Computer and design new program required to solve the problem under studies	Head of the department and all course instructors	By the beginning of the second semester of the academic year 2022-2023

Course coordinator:

Dr. Asmaa AboEl-soud

Program coordinator:

Prof. Dr. Safinaz M. Reda

Head of the Department:

Prof. Dr. Wagdy El-DougDoug

Date:

2022-2023

Annual Course Report 2022-2023

A- Basic Information		
1- Title and code:	Water treatment Chemistry (240Ch)	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	2022-2023 / Second level (undergraduate)	
4- Teaching hours	Lectures hrs. /week	2
	Tutorial hrs. /week	0
	Practical hrs. /week	2
	Total hrs. /week	4
4- Credit hours	Total credit hrs.	3

5- Names of lecturers contributing to the delivery of the course:	
Prof.Dr.Alaa Amin	
Dr. Hesham El-Feky	
Course coordinator:	
Prof.Dr.Alaa Amin	
Dr. Hesham El-Feky	
External evaluator: None	

B- Statistical Information

No. of students attending the course: No. 10 100 %
 No. of students completing the course: No. 10 100 %
 Results:

	No.	%	Grading of successful students:	
Passed	7	70	No.	%
Failed	3	30	Very Good	2 20
			Good	4 40
			Pass	1 10

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
1. Introduction to photo organic chemistry.	2	0	2
2. Reaction mechanism of photo organic compounds.	2	0	2
3. Energy levels of molecules.	2	0	2
4. Absorption and emission of light	2	0	2
5. Principal reactions of photochemistry.	2	0	2
6. Photo chemistry of carbonyl compounds.	2	0	2
7. Mid-Term Exam.	2	0	2
8. Photochemistry of alkenes part (1).	2	0	2
9. Photochemistry of alkenes part (2).	2	0	2
10. Photochemistry of enones part (1).	2	0	2
11. Photochemistry of enones part (2).	2	0	2
12. Photo chemistry of aromatic compounds.	2	0	2
13. Introduction to identify isomers	2	0	2
14. Stereochemistry of some organic compounds	2	0	2
Total hours	28	0	28

Topics taught as a percentage of the content specified:

>90 % 70-90 % <70%

Reasons in detail for not teaching any topic: None

If any topics were taught which are not specified, give reasons in detail: None

Achieved program intended learning outcomes, ILO's:

Knowledge and Understanding	Intellectual skills	Practical and professional skills	General skills
a1 to a3	b1 to b3	c1 to C2	d1 to d3

2- Teaching and learning methods:

Lectures: Using information technology, Lecture, Presentations, Problem solving, Discussions, Seminars and Brain storming

Practical training/ laboratory: None

Seminar/Workshop: Field work is still needed

Class activity:

Using computer and data show during discussion

Case Study: None

Other assignments/homework: weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons: None

3- Student assessment:

Tools	To Measure	Time schedule	Grading
Semester Work	a1, a2, a3, b1, d3, d1, and d2	Fifth week	3 %
Mid-Term Exam	a1, a2, a3 and b3	Seventh week	3 %
Oral exam	a1, a2, a3, b1, b2, b3 and c1	Thirteenth week	6 %
Practical exam	C1 and C2	Sixteenth week	40%
Written exam	a1, a2, a3, b1, b2, b3.	Fourteenth week	48 %
Total			100 %

Members of examination committee

Prof.Dr.Alaa Amin
Dr. Hesham El-Feky

Role of external evaluator None

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent: Microphones functionality should be checked before semester begins

Inadequate

List any inadequacies: None

5- Administrative constraints

List any difficulties encountered: None

6- Student evaluation of the course: None

7- Comments from external evaluator(s):

None

8- Course enhancement:

Progress on actions identified in the previous year's action plan:

Actions required	Person responsible	Progress of action
Development of student skills; participating of all students (in groups) in collecting (using international websites) some scientific parts supporting the basic contents of the course. Also, all these activities will be evaluated by the instructor of the course.	Head of the department and all course instructors	Activity of skills development , scientific parts supporting the basic contents of the course, was performed

Action State whether or not completed and give reasons for any non-completion

None

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9- Action plan for academic year 2022 – 2023

Actions required	Person responsible	Completion date
As a continuation in skills development, all students (in groups) will try to make a linkage between the basic theoretical contents of the course and the practical applications that can be used based on these theoretical aspects.	Head of the department and all course instructors	By the beginning of the second semester of the academic year 2022-2023

Course coordinator:

Prof.Dr.Alaa Amin
Dr. Hesham El-Feky

Program coordinator: Prof. Dr. Safinaz M. Reda

Head of the Department: Prof. Dr. Wagdy El-DougDoug

Date: 2022-2023

Annual Course Report 2022-2023

A- Basic Information		
1- Title and code:	Chemistry of Small Industry 210 Ch)	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	2022-2023 Second level. (undergraduate)	
4- Teaching hours	Lectures hrs. /week	2
	Tutorial hrs. /week	0
	Practical hrs. /week	2
	Total hrs. /week	4
4- Credit hours	Total credit hrs.	3

5- Names of lecturers contributing to the delivery of the course:	
Prof.Dr. Mohammed Arif	
Dr.Enas Abdel Alim	
Course coordinator:	
Prof.Dr. Mohammed Arif	
Dr.Enas Abdel Alim	
External evaluator: None	

B- Statistical Information

No. of students attending the course:	No. 231	100 %
No. of students completing the course:	No. 230	99.6 %
Results:		

	No.	%	Grading of successful students:	
			No.	%
Passed	230	99.6	Excellent	161 70
Failed	1	0.4	Very Good	50 21.74
			Good	15 6.52
			Pass	4 1.74

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours	% of total
1. Introduction	2	0	3	7.14%
2. Liquid detergents	2	0	3	7.14%
3. Hard soap	2	0	3	7.14%
4. Shampoo	2	0	3	7.14%
5. Dyes	2	0	3	7.14%
6. Creams	2	0	3	7.14%
7. Mid- Term Exam	2	0	3	7.14%
8. Perfume formulation	2	0	3	7.14%
9. Paper industry	2	0	3	7.14%
10. Paints	2	0	3	7.14%
11. Pigments	2	0	3	7.14%
12. Nylon 6,6	2	0	3	7.14%
13. Plastic industry	2	0	3	7.14%
14. Revision	2	0	3	7.14%
Total hours	28	0	42	100%

Topics taught as a percentage of the content specified:

>90 % 70-90 % <70%

Reasons in detail for not teaching any topic: None

If any topics were taught which are not specified, give reasons in detail: None

Achieved program intended learning outcomes, ILO's:

Knowledge and Understanding	Intellectual skills	Practical and professional skills	General skills
a1 to a6	b1 to b4	c1 to C1	d1 to d2

2- Teaching and learning methods:

Lectures: Using information technology, Lecture, Presentations, Problem solving, Discussions, Seminars and Brain storming

Practical training/ laboratory:

Seminar/Workshop: Field work is still needed

Class activity:

Case Study:

Other assignments/homework:

If teaching and learning methods were used other than those specified, list and give reasons: None

3- Student assessment:

Tools	To Measure	Time schedule	Grading
Semester Work	a1, a2, a4, b1, b2 and d1	Fifth week	3 %
Mid-Term Exam	a1, a2, a3, b1, and b2	Seventh week	3 %
Oral exam	a1, a2, a3, a4, a5, a6, b1, b2, b3, and d2	fifteenth week	6 %
Practical exam	C1	Sixteenth week	40%
Written exam	.a1, a2, a3, a4, a5, a6, b1, b2, b3	Seventeenth week	48 %
Total			100 %

Members of examination committee:

Prof.Dr. Mohammed Arif
Dr.Enas Abdel Alim

Role of external evaluator None

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent: Microphones functionality should be checked before semester begins

Inadequate

List any inadequacies: None

5- Administrative constraints

List any difficulties encountered: None

6- Student evaluation of the course:

None

7- Comments from external evaluator(s): None

8- Course enhancement:

Progress on actions identified in the previous year's action plan:

Actions required	Person responsible	Progress of action
Development of student skills; participating of all students (in groups) in collecting (using international websites) some scientific parts supporting the basic contents of the course. Also, all these activities will be evaluated by the instructor of the course.	Head of the department and all course instructors	Activity of skills development , scientific parts supporting the basic contents of the course, was performed

Action State whether or not completed and give reasons for any non-completion

None

9- Action plan for academic year 2022 – 2023

Actions required	Person responsible	Completion date
As a continuation in skills development, all students (in groups) will try to make a linkage between the basic theoretical contents of the course and the practical applications that can be used based on these theoretical aspects.	Head of the department and all course instructors	By the beginning of the second semester of the academic year 2022-2023

Course coordinator:

Prof.Dr. Mohammed Arif
Dr.Enas Abdel Alim

Program coordinator: Prof. Dr. Safinaz M. Reda

Head of the Department: Prof. Dr. Wagdy El-DougDoug

Date: 2022-2023

Annual Course Report 2022-2023

A- Basic Information		
1- Title and code:	Aromatic Organic Chemistry (1) (212 Ch)	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	2022-2023 Second level/ (undergraduate)	
4- Teaching hours	Lectures hrs. /week	2
	Tutorial hrs. /week	1
	Practical hrs. /week	0
	Total hrs. /week	3
4- Credit hours	Total credit hrs.	2

5- Names of lecturers contributing to the delivery of the course:
Prof.Dr. Mohammed Arif
Prof.Dr. Amal Ahmed

Course coordinator:

Prof.Dr. Mohammed Arif
Prof.Dr. Amal Ahmed

External evaluator: None

B- Statistical Information

No. of students attending the course: No. 76 100 %
 No. of students completing the course: No. 76 100%
Results:

	No.	%	Grading of successful students:	
Passed	60	78.9	No.	%
Failed	16	21.1	Excellent	14 18.42
			Very Good	18 23.68
			Good	21 27.63
			Pass	7 9.21

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours	% of total
1. Introduction	2	1	0	7.14%
2. Aromaticity	2	1	0	7.14%
3. Structure of Benzene	2	1	0	7.14%
4. Nomenclature of Benzene Derivatives	2	1	0	7.14%
5. Reactions of benzene	2	1	0	7.14%
6. Aromatic halogenated derivatives	2	1	0	7.14%
7. Mid-term	2	1	0	7.14%
8. Nitro compounds	2	1	0	7.14%
9. Aromatic carboxylic acids	2	1	0	7.14%
10. Aldehydes	2	1	0	7.14%
11. Ketones	2	1	0	7.14%
12. Aromatic amines	2	1	0	7.14%
13. Diazonium salts	2	1	0	7.14%
14. Revision	2	1	0	7.14%
Total hours	28	14	0	100%

Topics taught as a percentage of the content specified:

>90 % 70-90 % <70%

Reasons in detail for not teaching any topic: None

If any topics were taught which are not specified, give reasons in detail: None

Achieved program intended learning outcomes, ILO's:

Knowledge and Understanding	Intellectual skills	Practical and professional skills	General skills
a1 to a6	b1 to b4	c1 to C4	d1 to d2

2- Teaching and learning methods:

Lectures: Using information technology, Lecture, Presentations, Problem solving, Discussions, Seminars and Brain storming

Practical training/ laboratory: Carrying out some chemical experiments in chemistry department lab.

Seminar/Workshop: Field work is still needed

Class activity:

Using computer and data show during discussion

Case Study:

None

Other assignments/homework: weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons: None

3- Student assessment:

Tools	To Measure	Time schedule	Grading
Semester Work	a1, a2, a3, b2 and d1	Fifth week	5 %
Mid-Term Exam	a1, a2, a3, a5, a6, b2, b3, d1, and d2	Seventh week	5 %
Oral exam	a1, a2, a3, a4, a5, a6, b1, b2, b3, c4 d1 and d2	fifteenth week	10 %
Written exam	a1, a2, a3, a4, a5, a6, b1, b2, b3.	sixteenth week	80 %
Total			100 %

Members of examination committee:

Prof.Dr. Mohammed Arif
Prof.Dr. Amal Ahmed

Role of external evaluator None

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent: Microphones functionality should be checked before semester begins

Inadequate

List any inadequacies: None

5- Administrative constraints

List any difficulties encountered: None

6- Student evaluation of the course: None

7- Comments from external evaluator(s): None

8- Course enhancement:

Progress on actions identified in the previous year's action plan:

Actions required	Person responsible	Progress of action
Development of student skills; participating of all students (in groups) in collecting (using international websites) some scientific parts supporting the basic contents of the course. Also, all these activities will be evaluated by the instructor of the course.	Head of the department and all course instructors	Activity of skills development , scientific parts supporting the basic contents of the course, was performed

Action State whether or not completed and give reasons for any non-completion

None

9- Action plan for academic year 2022 – 2023



Actions required	Person responsible	Completion date
As a continuation in skills development, all students (in groups) will try to make a linkage between the basic theoretical contents of the course and the practical applications that can be used based on these theoretical aspects.	Head of the department and all course instructors	By the beginning of the second semester of the academic year 2022-2023

Course coordinator:

Prof.Dr. Mohammed Arif
Prof.Dr. Amal Ahmed

Program coordinator: Prof. Dr. Safinaz M. Reda
Head of the Department: Prof. Dr. Wagdy El-DougDoug
Date: 2022-2023

Annual Course Report 2022-2023

A- Basic Information		
1- Title and code:	Aromatic Organic Chemistry (2) (214 Ch)	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	2022-2023 /Second level (undergraduate)	
4- Teaching hours	Lectures hrs. /week	2
	Tutorial hrs. /week	1
	Practical hrs. /week	0
	Total hrs. /week	3
4- Credit hours	Total credit hrs.	2

5- Names of lecturers contributing to the delivery of the course:		
Prof.Dr. Mohammed Arif		
Prof.Dr. Amal Ahmed		
Course coordinator:		
Prof.Dr. Mohammed Arif		
Prof.Dr. Amal Ahmed		
External evaluator: None		

B- Statistical Information

No. of students attending the course: No. 100 %

No. of students completing the course: No. 100 %

Results:

	No.	%
Passed	2	50
Failed	2	50

Grading of successful students:

	No.	%
Excellent	0	0
Very Good	0	0
Good	1	25
Pass	1	25

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours	% of total
1. Introduction to carboxylic acids and derivatives.	2	1	0	7.14%
2. Aromatic acids and their acidic properties	2	1	0	7.14%
3. Aromatic acid derivatives	2	1	0	7.14%
4. Aromatic acid derivatives	2	1	0	7.14%
5. Introduction to polynuclear aromatic compounds	2	1	0	7.14%
6. Isolated polynuclear aromatic	2	1	0	7.14%
7. Mid-term exam.	2	1	0	7.14%
8. Stereo chemistry of isolated polynuclear aromatic.	2	1	0	7.14%
9. Fused (Naphthalene, Anthracene, Phenanthrenes).	2	1	0	7.14%
10. Reactions of fused polynuclear aromatic compounds	2	1	0	7.14%
11. Nonbenzinoid aromatic compounds	2	1	0	7.14%
12. Applications of aromatic acids and their derivatives	2	1	0	7.14%
13. Industrial applications of polynuclear aromatics	2	1	0	7.14%
14. Revision	2	1	0	7.14%
Total hours	28	14	0	100%

Topics taught as a percentage of the content specified:

>90 % 70-90 % <70%

Reasons in detail for not teaching any topic: None

If any topics were taught which are not specified, give reasons in detail: None

Achieved program intended learning outcomes, ILO's:

Knowledge and Understanding	Intellectual skills	Practical and professional skills	General skills
a1 to a5	b1 to b4	c1 to C4	d1 to d2

2- Teaching and learning methods:

Lectures: Using information technology, Lecture, Presentations, Problem solving, Discussions, Seminars and Brain storming

Practical training/ laboratory: None

Seminar/Workshop: Field work is still needed

Class activity:

Using computer and data show during discussion



Case Study:

Other assignments/homework:

If teaching and learning methods were used other than those specified, list and give reasons:

3- Student assessment:

Tools	To Measure	Time schedule	Grading
Semester Work	a1, a2, b2 and d1	Fifth week	5 %
Mid-Term Exam	a1, a2, a3,a4, b2, b3, d1, and d2	Seventh week	5 %
Oral exam	a1, a2, a3, a4, a5, b1, b2, b3, c4 d1and d2	fifteenth week	10 %
Written exam	a1, a2, a3, a4, a5, b1, b2, and b3	sixteenth week	80 %
Total			100 %

Members of examination committee

Prof.Dr. Mohammed Arif
Prof.Dr. Amal Ahmed

Role of external evaluator

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent: Microphones functionality should be checked before semester begins

Inadequate

List any inadequacies:

5- Administrative constraints

List any difficulties encountered:

6- Student evaluation of the course:

7- Comments from external evaluator(s):

8- Course enhancement:

Progress on actions identified in the previous year's action plan:

Actions required	Person responsible	Progress of action
Development of student skills; participating of all students (in groups) in collecting (using international websites) some scientific parts supporting the basic contents of the course. Also, all these activities will be evaluated by the instructor of the course.	Head of the department and all course instructors	Activity of skills development , scientific parts supporting the basic contents of the course, was performed

Action State whether or not completed and give reasons for any non-completion

9- Action plan for academic year 2022 – 2023

Actions required	Person responsible	Completion date
As a continuation in skills development, all students (in groups) will try to make a linkage between the basic theoretical contents of the course and the practical applications that can be used based on these theoretical aspects.	Head of the department and all course instructors	By the beginning of the second semester of the academic year 2022-2023

Course coordinator:

Prof.Dr. Mohammed Arif
Prof.Dr. Amal Ahmed

Program coordinator: Prof. Dr. Safinaz M. Reda
Head of the Department: Prof. Dr. Wagdy El-DougDoug
Date: 2022-2023

Annual Course Report 2022-2023

A- Basic Information		
1- Title and code:	Inorganic Chemistry (222Ch)	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	2022-2023 /Second level. (undergraduate)	
4- Teaching hours	Lectures hrs. /week	2
	Tutorial hrs. /week	1
	Practical hrs. /week	0
	Total hrs. /week	3
4- Credit hours	Total credit hrs.	2

5- Names of lecturers contributing to the delivery of the course:	
	Prof.Dr.Mohammed Heikal
	Prof.Dr.Ebrahim El-Sayed
	Prof.Dr.El-Sayed El-badwy
	Prof.Dr.Moustafa Shahin
Course coordinator:	
	Prof.Dr.Mohammed Heikal
	Prof.Dr.Ebrahim El-Sayed
	Prof.Dr.El-Sayed El-badwy
	Prof.Dr.Moustafa Shahin
External evaluator: None	

B- Statistical Information

No. of students attending the course: No. 75 100 %

No. of students completing the course: No. 75 100%

Results:

	No.	%
Passed	74	98.7
Failed	1	1.3

Grading of successful students:

	No.	%
Excellent	43	57.3
Very Good	16	21.3
Good	9	12
Pass	6	8

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours	% of total
1. Periodic table	2	1	0	7.14%
2. Valence bond theory and its applications	2	1	0	7.14%
3. Molecular orbital theory and its applications	2	1	0	7.14%
4. General properties and chemistry of group IA / 1 elements	2	1	0	7.14%
5. General properties and chemistry of group IIA / 2 elements	2	1	0	7.14%
6. General properties and chemistry of group IIIA /13 elements	2	1	0	7.14%
7. Mid-term exam	2	1	0	7.14%
8. General properties and chemistry of group VA /15 elements	2	1	0	7.14%
9. General properties and chemistry of group VIA / 16 elements	2	1	0	7.14%
10.General properties and chemistry of group VIIA / 17 elements	2	1	0	7.14%
11.General properties and chemistry of group VIIIA /18 elements	2	1	0	7.14%
12.Applications of main group elements part1	2	1	0	7.14%
13.Applications of main group elements part2	2	1	0	7.14%
14.Revision	2	1	0	7.14%
Total hours	28	14	0	100%

Topics taught as a percentage of the content specified:

>90 % 70-90 % <70%

Reasons in detail for not teaching any topic: None

If any topics were taught which are not specified, give reasons in detail: None

Achieved program intended learning outcomes, ILO's:

Knowledge and Understanding	Intellectual skills	Practical and professional skills	General skills
a1 to a5	b1 to b3	c1 to C3	d1 to d4

2- Teaching and learning methods:

Lectures: Using information technology, Lecture, Presentations, Problem solving, Discussions, Seminars and Brain storming

Practical training/ laboratory: Carrying out some chemical experiments in chemistry department lab.

Seminar/Workshop: Field work is still needed

Class activity:

Using computer and data show during discussion

Case Study: None

Other assignments/homework: weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons: None

3- Student assessment:

Tools	To Measure	Time schedule	Grading
Semester Work	a1, a2, a3, b2, d1, d1 and d2	Fifth week	5 %
Mid-Term Exam	a1, a2, a3, a4, b1, and b2	Seventh week	5 %
Oral exam	a1, a2, a3, a4, b1, b2, b3, c2, d4	fifteenth week	10 %
Written exam	a1, a2, a3, a4, b1, b2, b3.	sixteenth week	80 %
Total			100 %

Members of examination committee:

Prof.Dr.Mohammed Heikal
Prof.Dr.Ebrahim El-Sayed
Prof.Dr.El-Sayed El-badwy
Prof.Dr.Moustafa Shahin

Role of external evaluator None

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent: Microphones functionality should be checked before semester begins

Inadequate

List any inadequacies: None

5- Administrative constraints

List any difficulties encountered: None

6- Student evaluation of the course: None

7- Comments from external evaluator(s):

None

8- Course enhancement:

Progress on actions identified in the previous year's action plan:

Actions required	Person responsible	Progress of action
Development of student skills; participating of all students (in groups) in collecting (using international websites) some scientific parts supporting the basic contents of the course. Also, all these activities will be evaluated by the instructor of the course.	Head of the department and all course instructors	Activity of skills development , scientific parts supporting the basic contents of the course, was performed



Action State whether or not completed and give reasons for any non-completion

None

9- Action plan for academic year 2022 – 2023

Actions required	Person responsible	Completion date
As a continuation in skills development, all students (in groups) will try to make a linkage between the basic theoretical contents of the course and the practical applications that can be used based on these theoretical aspects.	Head of the department and all course instructors	By the beginning of the second semester of the academic year 2022-2023

Course coordinator:

Prof.Dr.Mohammed Heikal
Prof.Dr.Ebrahim El-Sayed
Prof.Dr.El-Sayed El-badwy
Prof.Dr.Moustafa Shahin

Program coordinator: Prof. Dr. Safinaz M. Reda

Head of the Department: Prof. Dr. Wagdy El-Dougdoug

Date: 2022-2023

Annual Course Report 2022-2023

A- Basic Information		
1- Title and code:	Electrochemistry (234 Ch)	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	2022-2023/Second level (undergraduate)	
4- Teaching hours	Lectures hrs. /week	2
	Tutorial hrs. /week	1
	Practical hrs. /week	0
	Total hrs. /week	3
4- Credit hours	Total credit hrs.	2

5- Names of lecturers contributing to the delivery of the course:		
Prof.Dr.Nahed Fouad		
Prof.Dr.Aasmaa Aboelsaoud		
Course coordinator:		
Prof.Dr.Nahed Fouad		
Prof.Dr.Aasmaa Aboelsaoud		
External evaluator: None		

B- Statistical Information

No. of students attending the course: No. 228 100 %
 No. of students completing the course: No. 228 100 %
 Results:

	No.	%	Grading of successful students:	
Passed	195	85.5	No.	%
Failed	33	14.5	Excellent	46 20.18
			Very Good	65 28.51
			Good	61 26.75
			Pass	23 10.09

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours	% of total
1. Introduction to electrochemistry.	2	1	0	7.14
2. Galvanic cell	2	1	0	7.14
3. E. M.F series	2	1	0	7.14
4. Types of electrode	2	1	0	7.14
5. Types of cell (part 1).	2	1	0	7.14
6. Types of cell (part 2).	2	1	0	7.14
7. Mid-Term Exam.	2	1	0	7.14
8. Fuel cell	2	1	0	7.14
9. Types of fuel cells	2	1	0	7.14
10. Potentiometry	2	1	0	7.14
11. Corrosion	2	1	0	7.14
12. Inhibition of corrosion	2	1	0	7.14
13. Prevention corrosion	2	1	0	7.14
14. Revision	2	1	0	7.14
Total hours	28	14	0	100

Topics taught as a percentage of the content specified:

>90 % 70-90 % <70%

Reasons in detail for not teaching any topic: None

If any topics were taught which are not specified, give reasons in detail: None

Achieved program intended learning outcomes, ILO's:

Knowledge and Understanding	Intellectual skills	Practical and professional skills	General skills
a1 to a5	b1 to b4	c1 to C2	d1 to d4

2- Teaching and learning methods:

Lectures: Using information technology, Lecture, Presentations, Problem solving, Discussions, Seminars and Brain storming

Practical training/ laboratory: Carrying out some chemical experiments in chemistry department lab.

Seminar/Workshop: Field work is still needed

Class activity:

Using computer and data show during discussion

Case Study:

None

Other assignments/homework: weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons: None

3- Student assessment:

Tools	To Measure	Time schedule	Grading
Semester Work	a1, a2, a3, b1, b2, b3 c1, d1 and d3	Fifth week	5 %
Mid-Term Exam	a1, a2, a3, b1, b2, b3 , and d2	Seventh week	5 %
Oral exam	a1, a2, a3,a4, a5, b1, b2, b3, b4, d2 and d4	fifteenth week	10 %
Written exam	a1, a2, a3, a4, a5, b1, b2, b3, b4, b5.	sixteenth week	80 %
Total			100 %

Members of examination committee	Dr. Salah Ahmed Ibrahim Eid
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Role of external evaluator None

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent: Microphones functionality should be checked before semester begins

Inadequate

List any inadequacies: None

5- Administrative constraints

List any difficulties encountered: None

6- Student evaluation of the course: None

7- Comments from external evaluator(s): None

8- Course enhancement:

Progress on actions identified in the previous year's action plan:

Actions required	Person responsible	Progress of action
Deficiency of computer and Programs. Limited days of field training due to shortage of funding from the university. Purchasing more specific references and tools.	Head of the department and all course instructors	The course note is updated and the instructor helped in developing the practical course experiments

Action State whether or not completed and give reasons for any non-completion None



9- Action plan for academic year 2022 – 2023

Actions required	Person responsible	Completion date
Update Computer and design new program required to solve the problem under studies	Head of the department and all course instructors	By the beginning of the second semester of the academic year 2022-2023

Course coordinator:

Prof.Dr.Nahed Fouad

Prof.Dr.Asmaa Aboelsaoud

Program coordinator:

Prof. Dr. Safinaz M. Reda

Head of the Department:

Prof. Dr. Wagdy El-Dougdoug

Date:

2022-2023

Annual Course Report 2022-2023

A- Basic Information		
1- Title and code:	Analytical Chemistry (1) (242Ch)	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	2022-2023 /Second level. (undergraduate)	
4- Teaching hours	Lectures hrs. /week	2
	Tutorial hrs. /week	0
	Practical hrs. /week	3
	Total hrs. /week	5
4- Credit hours	Total credit hrs.	3

5- Names of lecturers contributing to the delivery of the course:

Dr.Hesham El-Feky
Dr.Islam Shahin
Course coordinator:
Dr.Hesham El-Feky
Dr.Islam Shahin
External evaluator: None

B- Statistical Information

No. of students attending the course: No. 121 100 %

No. of students completing the course: No. 121 100 %

Results:

	No.	%
Passed	121	100
Failed	0	0

Grading of successful students:

	No.	%
Excellent	69	57
Very Good	35	28.9
Good	12	10
Pass	5	4.1

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours	% of total
1. Introduction to analytical chemistry, quantitative chemical analysis and its principles	2	0	3	7.14%
2. Methods of expressing concentrations	2	0	3	7.14%
3. Equivalent weight, standard solution and its requirements.	2	0	3	7.14%
4. Acids bases titration 1	2	0	3	7.14%
5. Acids bases titration 2	2	0	3	7.14%
6. Theories of indicators used in acid-base titration	2	0	3	7.14%
7. Mid-term exam	2	0	3	7.14%
8. Precipitation titration	2	0	3	7.14%
9. Theories of indicators used in precipitation titration	2	0	3	7.14%
10. Complexometric titration and detect end point and requirements of indicator	2	0	3	7.14%
11. Introduction to gravimetric analysis and different types of Gravimetric Methods	2	0	3	7.14%
12. Study the different factors affecting the solubility product and the precipitation process	2	0	3	7.14%
13. Study different types of contamination	2	0	3	7.14%
14. Study different types of precipitant (organic and inorganic)	2	0	3	7.14%
Total hours	28	0	42	100%

4 - Teaching and Learning methods against course ILOS:

Topics taught as a percentage of the content specified:

>90 % 70-90 % <70%

Reasons in detail for not teaching any topic: None

If any topics were taught which are not specified, give reasons in detail: None

Achieved program intended learning outcomes, ILO's:

Knowledge and Understanding	Intellectual skills	Practical and professional skills	General skills
a1 to a5	b1 to b4	c1 to C3	d1 to d4

2- Teaching and learning methods:

Lectures: Using information technology, Lecture, Presentations, Problem solving, Discussions, Seminars and Brain storming

Practical training/ laboratory: Carrying out some chemical experiments in chemistry department lab.

Seminar/Workshop: Field work is still needed

Class activity:

Using computer and data show during discussion

Case Study:

None

Other assignments/homework: weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons: None

3- Student assessment:

Tools	To Measure	Time schedule	Grading
Semester Work	a1, a2, a3, a5, b2, and d1	Fifth week	3 %
Mid-Term Exam	a1, a2, a3, a4, b2, d1, and d2	Seventh week	3%
Oral exam	a1, a2, a3, a4, b1, b2, b3 and d4	fifteenth week	6 %
Practical exam	c1 to cx3	sixteenth week	40%
Written exam	a1, a2, a3, a4, b1, b2, and b3	seventeenth week	48%
	Total		100 %

Members of examination committee

Dr.Hesham El-Feky
Dr.Islam Shahin

Role of external evaluator None

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent: Microphones functionality should be checked before semester begins

Inadequate

List any inadequacies: None

5- Administrative constraints

List any difficulties encountered: None

6- Student evaluation of the course: None

7- Comments from external evaluator(s): None

8- Course enhancement:

Progress on actions identified in the previous year's action plan:

Actions required	Person responsible	Progress of action
Development of student skills; participating of all students (in groups) in collecting (using international websites) some scientific parts supporting the basic contents of the course. Also, all these activities will be evaluated by the instructor of the course.	Head of the department and all course instructors	Activity of skills development , scientific parts supporting the basic contents of the course, was performed



Action State whether or not completed and give reasons for any non-completion

None

9- Action plan for academic year 2022 – 2023

Actions required	Person responsible	Completion date
As a continuation in skills development, all students (in groups) will try to make a linkage between the basic theoretical contents of the course and the practical applications that can be used based on these theoretical aspects.	Head of the department and all course instructors	By the beginning of the second semester of the academic year 2022-2023

Course coordinator:

Dr.Hesham El-Feky
Dr.Islam Shahin

Program coordinator:

Prof. Dr. Safinaz M. Reda

Head of the Department:

Prof. Dr. Wagdy El-DougDoug

Date:

2022-2023

Annual Course Report 2022-2023

A- Basic Information		
1- Title and code:	Green Chemistry and Environment (215Ch)	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	2022-2023 /Second level. (undergraduate)	
4- Teaching hours	Lectures hrs. /week	2
	Tutorial hrs. /week	0
	Practical hrs. /week	0
	Total hrs. /week	2
4- Credit hours	Total credit hrs.	2

5- Names of lecturers contributing to the delivery of the course:	
Prof.Dr. Mohammed Morsy	
Prof.Dr.Abdel Fattah Faded	
Prof.Dr.Kawther Abd elhalim	
Course coordinator:	
Prof.Dr. Mohammed Morsy	
Prof.Dr.Abdel Fattah Faded	
Prof.Dr.Kawther Abd elhalim	
External evaluator: None	

B- Statistical Information

No. of students attending the course: No. 2 100 %

No. of students completing the course: No. 2 100 %

Results:

	No.	%
Passed	2	100
Failed	0	0

Grading of successful students:		
	No.	%
Very Good	1	50
Pass	1	50

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours	% of total
1. Introduction to green chemistry.	2	0	0	7.14%
2. Green Chemistry – Definition and Principles	2	0	0	7.14%
3. Atom Economy & yield%	2	0	0	7.14%
4. Organic Preparations : acetylation of primary amine (Preparation of acetanilide)-base catalyzed aldol condensation-(Synthesis of dibenzalpropanone)	2	0	0	7.14%
5. (Bromination of trans-stilbene) [4+2] cycloaddition reaction (Diels-Alder reaction between furan and maleic acid)	2	0	0	7.14%
6. Electrophilic aromatic substitution reaction (Nitration of phenol).Electrophilic aromatic substitution reaction-II (Bromination of acetanilide)	2	0	0	7.14%
7. Mid-Term Exam.	2	0	0	7.14%
8. Rearrangement reaction (1): (Benzil - Benzilic acid rearrangement)-Pinacol-pinacolone rearrangement - (Preparation of benzopinacolone).	2	0	0	7.14%
9. Rearrangement reaction – (2) (Rearrangement of diazoamino benzene to p-aminoazobenzene) -radical coupling reaction -(Preparation of 1,1-bis-2-naphthol)	2	0	0	7.14%
10. Green photochemical reaction: -(Photoreduction of benzophenone to benzopinacol).	2	0	0	7.14%
11. Oxidation Reactions: green oxidation reaction (Synthesis of adipic acid)-Three component coupling (Synthesis of dihydropyrimidinone)	2	0	0	7.14%
12. Solvent-free reaction : (Microwave-assisted ammonium formate-mediated Knoevenagel reaction) Synthesis of Green Reagents (Tetrabutylammonium tribromide (TBATB) and its application)	2	0	0	7.14%
13. Alternative Green Procedure for Organic Qualitative Analysis: Detection of N, S, Cl, Br and I i) Use of zinc and sodium carbonate instead of metallic sod. ii) Novel use of salt of some organic acids in organic mixture analysis.	2	0	0	7.14%
14. Alternative Green Procedure for Derivative for Carboxylic Acids.	2	0	0	7.14%
Total hours	28	0	0	100%

Topics taught as a percentage of the content specified:

>90 % 70-90 % <70%

Reasons in detail for not teaching any topic: None

If any topics were taught which are not specified, give reasons in detail: None

Achieved program intended learning outcomes, ILO's:

Knowledge and Understanding	Intellectual skills	Practical and professional skills	General skills
a1 to a5	b1 to b4	c1 to C2	d1 to d3

2- Teaching and learning methods:

Lectures: Using information technology, Lecture, Presentations, Problem solving, Discussions, Seminars and Brain storming

Practical training/ laboratory: Carrying out some chemical experiments in chemistry department lab.

Seminar/Workshop: Field work is still needed

Class activity:

Using computer and data show during discussion

Case Study: None

Other assignments/homework: weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons: None

3- Student assessment:

Tools	To Measure	Time schedule	Grading
Semester Work	a1, a2, a3, b2, and d1	Fifth week	5 %
Mid-Term Exam	a1, a2, a3, a4, b2, d1, and d2	Seventh week	5 %
Oral exam	a1, a2, a3, a4, b1, b2, b3, . and d4	fifteenth week	10 %
Written exam	a1, a2, a3, a4,a5, b1, b2, b3.	sixteenth week	80 %
Total			100 %

Members of examination committee

Prof.Dr. Mohammed Morsy
Prof.Dr.Abdel Fattah Faded
Prof.Dr.Kawther Abd elhalim
None

Role of external evaluator

4- Facilities and teaching materials:

Totally adequate

Adequate to some extent: Microphones functionality should be checked before semester begins

Inadequate

List any inadequacies: None

5- Administrative constraints

List any difficulties encountered: None

6- Student evaluation of the course: None

7- Comments from external evaluator(s): None

8- Course enhancement:

Progress on actions identified in the previous year's action plan:

Actions required	Person responsible	Progress of action
Development of student skills; participating of all students (in groups) in collecting (using international websites) some scientific parts supporting the basic contents of the course. Also, all these activities will be evaluated by the instructor of the course.	Head of the department and all course instructors	Activity of skills development , scientific parts supporting the basic contents of the course, was performed

Action State whether or not completed and give reasons for any non-completion

None

9- Action plan for academic year 2022 – 2023

Actions required	Person responsible	Completion date
As a continuation in skills development, all students (in groups) will try to make a linkage between the basic theoretical contents of the course and the practical applications that can be used based on these theoretical aspects.	Head of the department and all course instructors	By the beginning of the second semester of the academic year 2022-2023

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