Annual Course Report
2021-2022

A- Basic Information		
1- Title and code:	General Chemistry (1) **100 Ch**	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	First level	
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. Maher El-naggar Prof. Dr. El Sayed Mabrouk Prof. Dr. Mostafa Nassar Prof. Dr. Mohamed Heikal
Course coordinator:
Prof. Dr. Maher El-naggar Prof. Dr. El Sayed Mabrouk Prof. Dr. Mostafa Nassar Prof. Dr. Mohamed Heikal
External evaluator: None

B- Statistical Information

No. of students attending the course: **No.** 256 **100 %**
No. of students completing the course: **No.** 242 **94.5 %**
Results:

	No.	**%**
Passed	**236**	92.2
Failed	**20**	**7.8**

Grading of successful students:

	No.	**%**
Excellent	**38**	**15.8**
Very Good	**103**	**42.5**
Good	**96**	**39.7**
Pass	**5**	**2**

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours	% of total
1 Introduction to General Chemistry and the Units	2	1	0	17.4%
2 Identify chemical formulae of inorganic	2	1	0	17.4%
3 Characteristics of different states of the matter	2	1	0	17.4%
4 Study the chemical bonding	2	1	0	17.4%
5 State the principles of electrochemistry.	2	1	0	17.4%
6 Study the molecular orbital diagram for	2	1	0	17.4%
7 Mid Term Exam.	2	1	0	17.4%
8 Molecular structure	2	1	0	17.4%
9 Study the state of matter	2	1	0	17.4%
10 Thermochemistry study	2	1	0	17.4%
11 Stoichiometric study.	2	1	0	17.4%
12 Atomic structure	2	1	0	17.4%
13 Hybridization	2	1	0	17.4%
14 Revision	2	1	0	17.4%
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 b7	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, and d1	Fifth week	5 %
Mid-Term Exam	a1, a2, a3, a4, and b2	Seventh week	5 %
Oral exam	a1, a2, a3, a4, b1, b2, b3, c2 and d4	fifteenth week	10 %
Written exam	a1 to a5, b1, b2 and b3.	sixteenth week	80 %
Total			100 %

Members of examination committee
Prof. Dr. Maher El-naggar Prof. Dr. El Sayed Mabrouk Prof. Dr. Mostafa Nassar Prof. Dr. Mohamed Heikal

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 2015-2016

Course coordinator:		
Prof. Dr. Maher El-naggar	Prof. Dr. El Sayed Mabrouk	Prof. Dr. Mostafa Nassar
Prof. Dr. Mohamed Heikal		

Program coordinator: Prof. Dr. Safinaz M. Reda

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

Date: 2022-2023

Annual Course Report
2021-2022

A- Basic Information		
1- Title and code:	General Chemistry (2) **105 Ch**	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	First level	
4- Teaching hours3.	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. Wagdy El-dougdoug Prof. Dr. Mohamed Morsy Dr. Showikar Tawfik
Course coordinator:
Prof. Dr. Wagdy El-dougdoug Prof. Dr. Mohamed Morsy Dr. Showikar Tawfik
External evaluator: None

B- Statistical Information

No. of students attending the course: **No.** 340 **100 %**
No. of students completing the course: **No.** 337 **99.1 %**
Results:

	No.	**%**
Passed	**316**	92.9
Failed	**24**	**7.1**

Grading of successful students:

	No.	**%**
Excellent	**9**	**2.7**
Very Good	**88**	**26**
Good	**165**	**49**
Pass	**54**	**16**

C- Professional Information

1 – Course teaching

3 – Contents

Topic	Lecture hours	Tutorial hours	Practical hours	% of total
1. Chemical equilibrium.	2	0	0	17.4%
2. Ionic equilibrium.	2	0	0	17.4%
3. Solution.	2	0	0	17.4%
4. The chemical and physical properties of solution	2	0	0	17.4%
5. Introduction to qualitative and quantitative analysis.	2	0	0	17.4%
6. Introduction to organic chemistry and chemical bonding in organic chemistry.	2	0	0	17.4%
7. Mid-Term Exam	2	0	0	17.4%
8. Hybridization in carbon atom (sp3, sp2, sp)	2	0	0	17.4%
9. Nomenclature of organic compounds	2	0	0	17.4%
10. Physical and chemical properties of alkanes	2	0	0	17.4%
11. Physical and chemical properties of cycloalkanes	2	0	0	17.4%
12. Physical and chemical properties of alkenes	2	0	0	17.4%
13. Physical and chemical properties of alkynes	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 b5	c1 to c3	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, b2, c2, c3 and d1	Fifth week	5 %
Mid-Term Exam	a1, a2, a3, a4, b1, b2,b3, c1, and c2	Seventh week	5 %
Oral exam	a1, a2, a3, a4, a5,b1, b2, b3, b4, b5, c5 and d3	fifteenth week	10 %
Written exam	a1, a2, a3, a4, a5, a6, b1, b2, b3, b5	sixteenth week	80 %
Total			100 %

Members of examination committee	Prof. Dr. Wagdy El-dougdoug Prof. Dr. Mohamed Morsy Dr. Showikar Tawfik
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 2017-2018

Course coordinator:

Prof. Dr. Wagdy El-dougdoug Prof. Dr. Mohamed Morsy Dr. Showikar Tawfik

Program coordinator: Prof. Dr. Safinaz M. Reda

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

Date: 2022-2023

Annual Course Report
2021-2022

A- Basic Information		
1- Title and code:	Practical Chemistry (1) **180 Ch**	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	First level	
4- Teaching hours	Lectures hrs. /week	0
	Tutorial hrs. /week	0
	Practical hrs. /week	3
	Total hrs. /week	3
4- Credit hours	Total credit hrs.	1

5- Names of lecturers contributing to the delivery of the course:
Dr. Hesham El-Feky Dr. Sahar Ibrahim
Mrs. Sahar Rashad Mrs. Amany Ismail Mrs. Rana Ashraf Mr. Mohammed Ezzat
Course coordinator
Dr. Hesham El-Feky Dr. Sahar Ibrahim
Mrs. Sahar Rashad Mrs. Amany Ismail Mrs. Rana Ashraf Mr. Mohammed Ezzat
External evaluator: None

B- Statistical Information

No. of students attending the course: **No.** 613 **100 %**
No. of students completing the course: **No.** 613 **100 %**
Results:

	No.	**%**
Passed	**586**	96
Failed	**27**	**4**

Grading of successful students:

	No.	**%**
Excellent	369	60
Very Good	**140**	23
Good	**58**	**9**
Pass	**19**	**3**

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours	% of total
1 Introduction to qualitative analysis and the classification of different groups of acidic and basic radicals.	0	0	3	17.4%
2 Qualitative analysis for gp (I) of acidic radicals.	0	0	3	17.4%
3 Qualitative analysis for gp (II) of acidic radicals.	0	0	3	17.4%
4 Qualitative analysis for gp (III) of acidic radicals.	0	0	3	17.4%
5 Qualitative analysis for gp (I) of basic radical	0	0	3	17.4%
6 Midterm exam	0	0	3	17.4%
7 Introduction for basic radicals	0	0	0	17.4%
8 Qualitative analysis for gp (I) of basic radicals.	0	0	3	17.4%
9 Qualitative analysis for gp (II) of basic radicals.	0	0	3	17.4%
10 Qualitative analysis for gp (III) of basic radicals.	0	0	3	17.4%
11 Qualitative analysis for gp (IV) of basic radicals.	0	0	3	17.4%
12 Qualitative analysis for gp (V) of basic radicals.	0	0	3	17.4%
13 Qualitative analysis for gp (VI) of basic radicals.	0	0	3	17.4%
Total hours	0	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 b5	c1 to c5	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, a6, b2, b3, b5, d1 and d2	Fifth week	5 %
Mid-Term Exam	a1 to a4, b2, and b5	Seventh week	5 %
Oral exam	a1, a2, a3, a4, b1, b2, b3, b4 and d4	fifteenth week	10 %
Written exam	c1 to c5	sixteenth week	80 %
Total			100 %

Members of examination committee

Dr. Hesham El-Feky Dr. Sahar Ibrahim
Mrs. Sahar Rashad Mrs. Amany Ismail Mrs. Rana Ashraf Mr. Mohammed Ezzat

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

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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 2016-2017

Course coordinator:

Dr. Hesham El-Feky Dr. Sahar Ibrahim
Mrs. Sahar Rashad Mrs. Amany Ismail Mrs. Rana Ashraf Mr. Mohammed Ezzat

Program coordinator: Prof. Dr. Safinaz M. Reda

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

Date: 2022-2023

Annual Course Report
2021-2022

A- Basic Information		
1- Title and code:	Practical Chemistry (2) **181 Ch**	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	First Level	
4- Teaching hours	Lectures hrs. /week	0
	Tutorial hrs. /week	0
	Practical hrs. /week	3
	Total hrs. /week	3
4- Credit hours	Total credit hrs.	1

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

Dr. Hesham El-Feky Dr. Sahar Ibrahim
Mrs. Sahar Rashad Mrs. Amany Ismail Mrs. Rana Ashraf Mr. Mohammed Ezzat

Course coordinator:

Dr. Hesham El-Feky Dr. Sahar Ibrahim
Mrs. Sahar Rashad Mrs. Amany Ismail Mrs. Rana Ashraf Mr. Mohammed Ezzat

External evaluator: None

B- Statistical Information

No. of students attending the course: **No.** 584 **100 %**
No. of students completing the course: **No.** 584 **100 %**
Results:

	No.	%
Passed	**579**	99
Failed	**15**	**1**

Grading of successful students:

	No.	%
Excellent	506	87
Very Good	**54**	**9**
Good	**16**	**3**
Pass	**3**	**1**

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours	% of total
1 Introduction to neutralization reactions with standardization of hydrochloric acid with sodium carbonate.	0	0	3	17.4%
2 Titration of strong acid with strong base and weak acid with weak base.	0	0	3	17.4%
3 Titration of strong acid with weak base and weak acid with strong base.	0	0	3	17.4%
4 Titration of mix(sodium carbonate and sodium hydroxide)with hydrochloric acid	0	0	3	17.4%
5 Titration of mix(sodium carbonate and sodium bicarbonate)with hydrochloric acid	0	0	3	17.4%
6 Titration of mix(hydrochloric acid and phosphoric acid)with sodium hydroxide.	0	0	3	17.4%
7 Mid-term exam.	0	0	3	17.4%
8 Aromatic hydrocarbons	0	0	3	17.4%
9 Alcohols	0	0	3	17.4%
10 Aldehydes and ketones	0	0	3	17.4%
11 Carboxylic acids	0	0	3	17.4%
12 Aromatic amines	0	0	3	17.4%
13 General scheme for identification of simple liquid organic compounds	0	0	3	17.4%
14 Revision.	0	0	3	17.4%
Total hours	0	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 a3	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: 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, d1 and d3	Fifth week	5 %
Mid-Term Exam	a2, a3, b1, b2 and c1	Seventh week	5 %
Oral exam	a1, a2, a3, b2, d1, and d2	fifteenth week	10 %
Written exam	a1, a2, a3, b1, b2, b3, c1, and c2	sixteenth week	80 %
Total			100 %

Members of examination committee

Dr. Hesham El-Feky Dr. Sahar Ibrahim
Mrs. Sahar Rashad Mrs. Amany Ismail Mrs. Rana Ashraf Mr. Mohammed Ezzat

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 2021 – 2022

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 2017-2018

Course coordinator:

Dr. Hesham El-Feky Dr. Sahar Ibrahim
Mrs. Sahar Rashad Mrs. Amany Ismail Mrs. Rana Ashraf Mr. Mohammed Ezzat

Program coordinator: Prof. Dr. Safinaz M. Reda

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

Date: 2022-2023

Annual Course Report
2021-2022

A- Basic Information		
1- Title and code:	Applied inorganic chemistry (1) **183 Ch**	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	First level	
4- Teaching hours	Lectures hrs. /week	0
	Tutorial hrs. /week	0
	Practical hrs. /week	2
	Total hrs. /week	2
4- Credit hours	Total credit hrs.	1

5- Names of lecturers contributing to the delivery of the course:			
Course coordinator:			
Dr. Hesham El-Feky	Dr. Sahar Ibrahim		
Mrs. Sahar Rashad	Mrs. Amany Ismail	Mrs. Rana Ashraf	Mr. Mohammed Ezzat

External evaluator: None

B- Statistical Information

No. of students attending the course: **No.** 410 **100 %**
No. of students completing the course: **No.** 410 **100 %**
Results:

	No.	%
Passed	**343**	84
Failed	**67**	**16**

Grading of successful students:

	No.	%
Excellent	42	10
Very Good	**89**	22
Good	**121**	**30**
Pass	**91**	**22**

C- Professional Information

1 – Course teaching

3 – Contents

Topic	Lecture hours	Tutorial hours	Practical hours	% of total
1. Introduction to inorganic chemistry	0	2	0	17.4%
2. Classify inorganic compounds and their applications	0	2	0	17.4%
3. Extractive of copper metal from its ores	0	2	0	17.4%
4. Refine copper metal and its applications	0	2	0	17.4%
5. Manufacture of Sodium Hydroxide and chlorine using chlor-alkali and their applications	0	2	0	17.4%
6. Manufacture of Sodium Hydroxide and chlorine using diaphragm and membrane cells	0	2	0	17.4%
7. Mid-term exam	0	2	0	17.4%
8. Raw Materials, nitrogen fixation and application of ammonia	0	2	0	17.4%
9. Manufacture of ammonia using Haber and Carl Bosch process	0	2	0	17.4%
10. Raw Materials, production of sulphur trioxide and application of sulphuric acid	0	2	0	17.4%
11. Manufacture of sulphuric acid using lead-chamber process	0	2	0	17.4%
12. Manufacture of sulphuric acid using contact process	0	2	0	17.4%
13. Manufacture of nitrogen and phosphate Fertilizers	0	2	0	17.4%
14. Manufacture of potassium and NPK Fertilizers	0	2	0	17.4%
Total hours	**0**	**28**	**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 a4	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, b2, c1, d1, d2 and d3	Fifth week	5 %
Mid-Term Exam	a1, a2, a3, a4, b2,c1, and c2	Seventh week	5 %
Oral exam	a1, a2, a3, a4, b1, and b2	fifteenth week	10 %
Written exam	a1, a2, a3, a4, b1, b2 and b3	sixteenth week	80 %
Total			100 %

Members of examination committee Dr. Sahar Mohammed

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 2021 – 2022

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 2017-2018

Course coordinator: Dr. Hesham El-Feky Dr. Sahar Ibrahim
Mrs. Sahar Rashad Mrs. Amany Ismail Mrs. Rana Ashraf Mr. Mohammed Ezzat

Program coordinator: Prof. Dr. Safinaz M. Reda

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

Date: 2022-2023

Annual Course Report
2021-2022

A- Basic Information		
1- Title and code:	Applied organic chemistry (2) **185 Ch**	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	First level	
4- Teaching hours	Lectures hrs. /week	0
	Tutorial hrs. /week	0
	Practical hrs. /week	2
	Total hrs. /week	2
4- Credit hours	Total credit hrs.	1

5- Names of lecturers contributing to the delivery of the course: Dr. Amal Mohamed

Course coordinator Dr. Amal Mohamed

External evaluator: None

B- Statistical Information

No. of students attending the course: **No.** 397 **100 %**
No. of students completing the course: **No.** 395 **100 %**
Results:

	No.	%
Passed	**269**	68
Failed	**126**	**32**

Grading of successful students:

	No.	%
Excellent	7	2
Very Good	**52**	13
Good	**102**	**26**
Pass	**108**	**27**

C- Professional Information

1 – Course teaching

3 – Contents

No.	Topic	Lecture hours	Tutorial hours	Practical hours
1	Introduction	0	2	0
2	Determination of emprical formula	0	2	0
3	Determination of molecular and structural formula	0	2	0
4	Drawing the stuctural formula by different methods	0	2	0
5	Prediction the emprical formula for organic compounds	0	2	0
6	Isomerism	0	2	0
7	**Med-Term Exam**	0	2	0
8	Comparing among the different functional groups in organic compounds	0	2	0
9	Organic chemistry in plastic industry	0	2	0
10	Organic chemistry in Food industry	0	2	0
11	Organic chemistry in petrochemical industry	0	2	0
12	Organic chemistry in Textile	0	2	0
13	Detergent	0	2	0
14	Revision	0	2	0
	Total hours	**0**	28	**0**

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 a4	b1 to b4	c1 to C2	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, c1, d1 and d3	Fifth week	5 %
Mid-Term Exam	a1, a2, a3, a4, b2,c2, and c3	Seventh week	5 %
Oral exam	a1, a2, a3, a4, b1, b2 and d4	fifteenth week	10 %
Written exam	a1, a2, a3, a4, b1, b2 and b3	sixteenth week	80 %
Total			100 %

Members of examination committee Dr. Amal Mohamed

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 2021 – 2022

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 2017-2018

Course coordinator: Dr. Amal Mohamed

Program coordinator: Prof. Dr. Safinaz M. Reda

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

Date: 2022-2023

Annual Course Report
2016-2017

A- Basic Information		
1- Title and code:	Healthy Nutrition **13 Fr**	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	First level	
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. د.مروة عاطف عليوة
د.دعاء صبرى ابراهيم
Course coordinator:
د.مروة عاطف عليوة .
د.دعاء صبرى ابراهيم
External evaluator: None

B- Statistical Information

No. of students attending the course: **No.** 594 **100 %**
No. of students completing the course: **No.** 590 **100 %**
Results:

	No.	%
Passed	577	98
Failed	13	2

Grading of successful students:

	No.	%
Excellent	150	25
Very Good	246	42
Good	143	24
Pass	38	6

C- Professional Information

1 – Course teaching

3- محتوى المقرر

الموضوع	ساعات			من % الكلية
	النظرى	العملى	التمارين	
1 أساسيات التغذية والعلاقة بين الغذاء والمغذيات..	2	0	0	%17.4
2 انواع الكربوهيدرات و هضمها .	2	0	0	%17.4
3 أيض الكربوهيدرات و فوائدها.	2	0	0	%17.4
4 الكلية ووظائفها والتغذية العلاجية لمرضى المتلازمة الكلائية.	2	0	0	%17.4
5 التغذية العلاجية لمرضى الالتهاب الكلوى الحاد والفشل الكلوى الحاد	2	0	0	%17.4
6 امتحان منتصف الترم	2	0	0	%17.4
7 التغذية العلاجية لمرضى التهاب الكبد الحاد وتشمع الكبد (1)	2	0	0	%17.4
8 التغذية العلاجية لمرضى التهاب الكبد الحاد وتشمع الكبد (2)	2	0	0	%17.4
9 الماء وأنواع الفيتامينات و خصائصها العامة.	2	0	0	%17.4
10 التغذية العلاجية لمرضى التهاب المرارة	2	0	0	%17.4
11 . أمراض سوء التغذية الناجمة عن نقص الغذاء (فقر الدم) أنواعها وأسبابها وأعراضها	2	0	0	%17.4
12 الأملاح المعدنية كبيرة المقدار.	2	0	0	%17.4
13 فقر الدم الناجم عن نقص والفولات وفيتامين B12	2	0	0	%17.4
14 مراجعة	2	0	0	%17.4
عدد الساعات	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 a10	b1 to b5	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	5 %
Mid-Term Exam	a1, a2, a3, a4, a7,b2,b4, d1, and d2	Seventh week	5 %
Oral exam	a1, a2, a3, a4,a7,a8, b1, b2, b3, and d4	fifteenth week	10 %
Written exam	a1, a2, a3, a4,a10, b1, b2, b3, b4.	sixteenth week	80 %
Total			100 %

Members of examination committee

د.مروة عاطف عليوة

د.دعاء صبرى ابراهيم

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 2017 – 2018

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 2017-2018

Course coordinator: **Prof. Dr. Ibrahim El-Sayed Ahmed**

Date: 2016 – 2017

Annual Course Report
2016-2017

A- Basic Information		
1- Title and code:	English (1) 015 Ur	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	First level	
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. Ghada
Course coordinator: Prof. Dr. Ghada
External evaluator: None

B- Statistical Information

No. of students attending the course:	No.	619	100 %
No. of students completing the course:	No.	601	100 %

Results:

	No.	%
Passed	589	98
Failed	12	2

Grading of successful students:

	No.	%
Excellent	287	48
Very Good	173	29
Good	96	16
Pass	33	5

C- Professional Information

1 – Course teaching

3 – Contents

Topic	Lecture hours	Tutorial hours	Practical hours	% of total
1. Reading comprehension part (1)	2	0	0	7.14%
2. Reading comprehension part (2)	2	0	0	7.14%
3. Reading comprehension part (3)	2	0	0	7.14%
4. Grammar part (1)	2	0	0	7.14%
5. Grammar part (2)	2	0	0	7.14%
6. Grammar part (3)	2	0	0	7.14%
7. Mid-term exam	2	0	0	7.14%
8. Grammar part (4)	2	0	0	7.14%
9. Grammar part (5)	2	0	0	7.14%
10. Translation part (1)	2	0	0	7.14%
11. Translation part (2)	2	0	0	7.14%
12. Writing skills part (1)	2	0	0	7.14%
13. Writing skills part (2)	2	0	0	7.14%
14. Revision	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 a3	b1 to b4	c1 to c2	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
Mid-Term Exam	a1, a2, b1 to b4,c1 and c2	Seventh week	10 %
Oral exam	a1 to a4, b1 to b4,c1,c2 and d1	fifteenth week	10 %
Written exam	a1 to a4 and b1 to b4	sixteenth week	80 %
Total			100 %

Members of examination committee Prof. Dr. Ghada

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 2017 – 2018

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 2017-2018

Course coordinator: **Prof. Dr. Ghada**
Date: 2016 – 2017

Annual Course Report
2016-2017

A- Basic Information		
1- Title and code:	Computer Science (1) 40UR	
2- Program(s) on which this course is given:	Mathematics B.Sc. Program	
3- Year/Level of program:	2016-2017/ B.Sc. (undergraduate)	
4- Teaching hours	Lectures hrs. /week	1
	Tutorial hrs. /week	0
	Practical hrs. /week	2
	Total hrs. /week	1
4- Credit hours	Total credit hrs.	2

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

Course coordinator: Dr. Mosab Hassan Dr. Heba Salem
Internal evaluator: Prof. Dr. Mostafa Abd Elhmed& Prof.Dr. Yvette Aissac
External evaluator: Dr. El Shahat Saleh

B- Statistical Information

No. of students attending the course: **No.** 480 **100 %**

No. of students completing the course: **No.** 480 **100%**

Results:

	No.	%
Passed	472	98
Failed	8	2

Grading of successful students:

	No.	%
Excellent	225	47
Very Good	188	39
Good	49	10
Pass	10	2

C- Professional Information

1 – Course teaching

3 - Contents			
Topic	Lecture hours	Tutorial hours	Practical hours
Basics of programming.	1	-	2
Algorithms and flowcharts.	1	-	2
Basics of the programming language	1	-	2
Types of variables	1	-	2
Control statements (1)	1	-	2
Control statements (2)	1	-	2
Revision and mid-term exam	1	-	2
Loop statements (1)	1	-	2
Loop statements (2)	1	-	2
Array (1)	1	-	2
Array (1)	1	-	2
Functions (1)	1	-	2
Functions (2)	1	-	2
Some Applications.	1	-	2
Total hours	14	-	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 a4	b1 to b4	c1 to c2	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
Mid-Term Exam	a1, a2, b1	Week 7	14%
Oral exam	a1, a2, a3,b3	Week 15	14 %
Practical exams	c1, c2,b4	Week 15	14 %
Written exam	a1,a2,a3,a4, b1, b2	Start of the sixteenth week	48 %
Total			100 %

Members of examination committee: Dr. Mosab Hassan, Dr. Heba Salem
Role of external evaluator None

4- Facilities and teaching materials:
Totally adequate : None
Adequate to some extent: Yes
Inadequate
List any inadequacies: Microphones functionality

5- Administrative constraints
List any difficulties encountered: Deficiency of computer and Programs. Limited days of field training due to shortage of funding from the university. Purchasing more specific references and tools.

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
The course note is updated	Head of the department and all course coordinators.	There is a good advances in the arrangement of vehicle.

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

9- Action plan for academic year 2016– 2017

Actions required	Person responsible	Completion date
Update Contents of this course	Head of the department and all course coordinators.	At the beginning of the academic years.

Course coordinator: Dr. Mosab Hassan
Dr. Heba Salem
Date: 2016-2017
Date: / /

Annual Course Report
2016-2017

A- Basic Information		
1- Title and code:	Computer Science (1) 30UR	
2- Program(s) on which this course is given:	Mathematics B.Sc. Program	
3- Year/Level of program:	2016-2017/ B.Sc. (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:

Course coordinator: Dr. Mosab Hassan Dr. Heba Salem
Internal evaluator: Prof. Dr. Mostafa Abd Elhmed& Prof.Dr. Yvette Aissac
External evaluator: Dr. El Shahat Saleh

B- Statistical Information

No. of students attending the course: **No.** 125 **100 %**
No. of students completing the course: **No.** 122 **97.6 %**
Results:

	No.	%
Passed	120	98
Failed	2	2

Grading of successful students:

	No.	%
Excellent	10	8
Very Good	37	30
Good	55	45
Pass	18	15

C- Professional Information

1 – Course teaching

3 - Contents			
Topic	Lecture hours	Tutorial hours	Practical hours
Fundamentals of programming and computer languages (1)	2	-	2
Fundamentals of programming and computer languages (2)	2	-	2
Fundamentals of programming and computer languages (3)	2	-	2
Algorithm and Flowcharts (1)	2	-	2
Algorithm and Flowcharts (2)	2	-	2
Elements of Language under case	2	-	2
Revision and Mid-Term Exam	2	-	2
Basic Instructions in Language under case (1)	2	-	2
Basic Instructions in Language under case (2)	2	-	2
Control Instructions (1)	2	-	2
Control Instructions (2)	2	-	2
Functions and Some applications	2	-	2
Subprograms	2	-	2
Applications	2	-	2
Total hours	28	-	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 a4	b1 to b2	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
Mid-Term Exam	a1, a2, b1	Week 7	14%
Oral exam	a1, a2, a3	Week 15	14 %
Practical exams	c1, c2	Week 15	14 %
Written exam	a1,a2,a3,a4, b1, b2	Start of the sixteenth week	48 %
Total			100 %

Members of examination committee: Dr. Mosab Hassan, Dr. Heba Salem

Role of external evaluator None

4- Facilities and teaching materials:

Totally adequate : None

Adequate to some extent: Yes

Inadequate

List any inadequacies: Microphones functionality

5- Administrative constraints

List any difficulties encountered: Deficiency of computer and Programs. Limited days of field training due to shortage of funding from the university. Purchasing more specific references and tools.

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
The course note is updated	Head of the department and all course coordinators.	There is a good advances in the arrangement of vehicle.

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

None

9- Action plan for academic year 2016– 2017

Actions required	Person responsible	Completion date
Update Contents of this course	Head of the department and all course coordinators.	At the beginning of the academic years.

Course coordinator: Dr. Mosab Hassan
Dr. Heba Salem
Date: 2016-2017
Date: / /

Annual Course Report

Academic year 2016-2017

A- Basic Information

1- Title and code: General Physics (1) /100 Ph
2- Program(s) on which this course is given: Special Physics B. Sc. Program.
3- Year/Level of program: (2016/2017) / 1st Level (First semester)
4- Credit hours

Lectures 2 Tutorial 1 Practical 0 Total 28

5- Names of lecturers contributing to the delivery of the course: Non
Course coordinator: Ass. Prof./ Mahmoud H. Makled
External evaluator: Prof. Dr. Tawfik El-Desouky.

B- Statistical Information

No. of students attending the course: No. 625 100%
No. of students completing the course: No. 598 95.7 %

Results:

	No.	%
Passed	471	79
Failed	127	21

Grading of successful students:

	No.	%
Excellent	60	10
Very Good	155	26
Good	149	25
Pass	107	18

C- Professional Information

1 – Course teaching

No.	Topic	Lecture hours	Tutorial hours	Practical hours
1	Physical quantity	2	1	0
2	Dimension theory	2	1	0
3	Units	2	1	0

4	balance equation	2	1	0
5	Types of motion	2	1	0
6	Motion in different directions	2	1	0
7	**Mid- Term Exam & review**	2	1	0
8	Second newton low of motion	2	1	0
9	Work and energy	2	1	0
10	Introduction in heat	2	1	0
11	Heat and heat transfer	2	1	0
12	Kinetic theory of gases	2	1	0
13	Specific heat of gases	2	1	0
14	First law of thermodynamics	2	1	0
Total hours		28	14	0

Topics taught as a percentage of the content specified:

>90 % yes **70-90 %** - **<70%** -

Reasons in detail for not teaching any topic

If any topics were taught which are not specified, give reasons in detail

Achieved program intended learning outcomes, ILO's:

Knowledge and Understanding	Intellectual skills	Applied Skills	General transferable skills
a1, a2, a3, and a4.	b1, b2, b3, and b4.	c1, c2, and c3.	d1, d2, and d3.

2- Teaching and learning methods:

Lectures: Yes

Practical training/ laboratory: No

Seminar/Workshop: Yes

Class activity:

Yes

Case Study: Manual notebook and external references

Other assignments/homework: Non

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

3- Student assessment:

Method of assessment	Percentage of total
Written examination	80%
Oral examination	5 %
Practical/laboratory work	0%
Other assignments/class work	5 %

Mid-Term Exam 10 %
Total 100 %
Members of examination committee: Coordinator
Role of external evaluator: Not available

4- Facilities and teaching materials:
Totally adequate
Manual not book, Blackboard, Projector, and Scientific references in Library.
Adequate to some extent Scientific references books and computers
Inadequate -
List any inadequacies: -

5- Administrative constraints
List any difficulties encountered
Some apparatus is old. The theoretical topics need more explanation.

6- Student evaluation of the course: Response of course team

List any criticisms	
1- The course is a general one so, it needs some specifications.	We added some specific topics.
2- Time is quite short and there are many students in the Lectures.	The whole number in the lectures does not exceed 150 students

7- Comments from external evaluator(s):
Not available and a copy of the exam and answer will attach to the report.

8- Course enhancement:
Progress on actions identified in the previous year's action plan:

Actions required	Planned Completion date	Accomplishment
1. Add some new references.	1 year	60 %
2. Add some applications.	1 year	60 %

Action State whether completed and give reasons for any non-completion Non
9- Action plan for academic year 2017 – 2018.

Actions required	Completion date	Person responsible
1. Depends on modern references	1 year	Coordinator
2. Focusing on applied materials	1year	Coordinator

Course coordinator: Ass. Prof./ Mahmoud H. Makled
Signature:
Date: 2016/2017

Annual Course Report

Academic year 2016-2017

A- Basic Information

1- Title and code: Practical physics (1)/ 180 Ph
2- Program(s) on which this course is given: Special Physics B. Sc. Program.
3- Year/Level of program: (2016/2017) / 1st Level (First semester)
4- Credit hours

Lectures 0 Tutorial 0 Practical 3 Total 28

5- Names of lecturers contributing to the delivery of the course: Non
Course coordinator: Ass.Prof./ Mohamed abd Elmonem
External evaluator: Not available

B- Statistical Information

No. of students attending the course: No. 617 100%
No. of students completing the course: No. 617 100 %

Results:

	No.	%
Passed	553	89.6
Failed	64	10.4

Grading of successful students:

	No.	%
Excellent	238	38.6
Very Good	195	31.6
Good	86	13.9
Pass	34	5.5

C- Professional Information

1 – Course teaching

No.	Topic	Lecture hours	Tutorial hours	Practical hours
1	Introduction in the units, tools, erroes and precise maesurments.	0	0	3
2	Archimedes experiment.	0	0	3
3	Newton law of cooling.	0	0	3
4	Specific heat of solid materials.	0	0	3
5	simple pendulum.	0	0	3

6	Viscosity of liquid.	0	0	3
7	**Mid-Term Exam**	0	0	3
8	Melting point.	0	0	3
9	Surface tension.	0	0	3
10	Hook law.	0	0	3
11	Velocity of sound.	0	0	3
12	Joule experiment.	0	0	3
13	Linear expansion.	0	0	3
14	Review and summary	0	0	3
	Total hours	0	0	42

Topics taught as a percentage of the content specified:

>90 % yes **70-90 %** - **<70%** -

Reasons in detail for not teaching any topic

If any topics were taught which are not specified, give reasons in detail

Achieved program intended learning outcomes, ILO's:

Knowledge and Understanding	Intellectual skills	Applied Skills	General transferable skills
a1, a2, a3, and a4.	b1, b2, b3, and b4.	c1, c2, and c3.	d1, d2, and d3.

2- Teaching and learning methods:

Lectures: Yes

Practical training/ laboratory: No

Seminar/Workshop: Yes

Class activity:

Yes

Case Study: Manual notebook and external references

Other assignments/homework: Non

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

3- Student assessment:

Method of assessment	Percentage of total
Written examination	5%
Oral examination	0 %
Practical/laboratory work	80%
Other assignments/class work	0 %
Mid-Term Exam	5 %
Total	100%

Members of examination committee: Coordinator

Role of external evaluator: Not available

4- Facilities and teaching materials:

Totally adequate

Manual not book, Blackboard, Projector, and Scientific references in Library.

Adequate to some extent Scientific references books and computers

Inadequate -

List any inadequacies: -

5- Administrative constraints

List any difficulties encountered

Some apparatus is old. New computerized experiments are necessary needed in Lab.

6- Student evaluation of the course: Response of course team

List any criticisms.

3-	We need to visit some practical factories companies to see the real practical applications in industry.	We tried to give them a lot of practical and examples in real industry and visit some research laboratories in our Dep.

7- Comments from external evaluator(s):

Not available and a copy of the exam and answer will attach to the report.

8- Course enhancement:

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

Actions required	Planned Completion date	Accomplishment
3. Add some new references.	1 year	60 %
4. Add some applications.	1 year	60 %

Action State whether completed and give reasons for any non-completion Non

9- Action plan for academic year 2017 – 2018.

Actions required	Completion date	Person responsible
3. Depends on modern references	1 year	Coordinator
4. Focusing on applied experiments	1year	Coordinator

Course coordinator: Ass.Prof. Mohamed abd Elmonem

Signature:

Date: 2016/2017

Annual Course Report

Academic year 2016-2017

A- Basic Information

1- Title and code: Applied Physics (1)/ 183 Ph
2- Program(s) on which this course is given: Special Physics B. Sc. Program.
3- Year/Level of program: (2016/2017) / 1st Level (First semester)
4- Credit hours

Lectures 0 Tutorial 1 Practical 0 Total 14

5- Names of lecturers contributing to the delivery of the course: Non
Course coordinator: Prof. Dr. Mohamed Ali
External evaluator: Not available

B- Statistical Information

No. of students attending the course: No. 405 100%
No. of students completing the course: No. 405 100 %
Results:

	No.	%
Passed	335	82.5
Failed	70	17.5

Grading of successful students:

	No.	%
Excellent	14	3.5
Very Good	86	21.2
Good	112	27.7
Pass	123	30.4

C- Professional Information

1 – Course teaching

No.	Topic	Lecture hours	Tutorial hours	Practical hours
1	Application on Physical quantity.	0	1	0
2	Application on Dimension theory.	0	1	0
3	Application on Unites.	0	1	0
4	Application on balance equation.	0	1	0
5	Application on Types of motion.	0	1	0
6	Application on Motion in different directions.	0	1	0
7	**Mid- Term Exam & review**	0	1	0
8	Application on second Newton low of motion.	0	1	0
9	Application on Work and energy.	0	1	0
10	Application on Introduction in heat.	0	1	0
11	Application on Heat and heat transfer.	0	1	0
12	Application on Kinetic theory of gases.	0	1	0

13	Application on Specific heat of gases.	0	1	0
14	Application on First law of thermodynamics.	0	1	0
Total hours		0	14	0

Topics taught as a percentage of the content specified:
>90 % yes 70-90 % - <70% -
Reasons in detail for not teaching any topic
If any topics were taught which are not specified, give reasons in detail

Achieved program intended learning outcomes, ILO's:

Knowledge and Understanding	Intellectual skills	Applied Skills	General transferable skills
a1, a2, a3, and a4.	b1, b2, b3, and b4.	c1, c2, and c3.	d1, d2, and d3.

2- Teaching and learning methods:
Lectures: Yes
Practical training/ laboratory: No
Seminar/Workshop: Yes
Class activity:
Yes
Case Study: Manual notebook and external references
Other assignments/homework: Non
If teaching and learning methods were used other than those specified, list and give reasons:

3- Student assessment:

Method of assessment	Percentage of total
Written examination	80%
Oral examination	5 %
Practical/laboratory work	0%
Other assignments/class work	5 %
Mid-Term Exam	10 %
Total	100 %

Members of examination committee: Coordinator
Role of external evaluator: Not available

4- Facilities and teaching materials:
Totally adequate
Manual not book, Blackboard, Projector, and Scientific references in Library.
Adequate to some extent Scientific references books and computers
Inadequate -
List any inadequacies: -

5- Administrative constraints

List any difficulties encountered
The applications need more apppartues to be illustrated.

6- Student evaluation of the course:	Response of course team
List any criticisms	
4- The course has a little chance of interaction. with the instructor.	We divided them into sets which does not exceed 150 students.

7- Comments from external evaluator(s):
Not available and a copy of the exam and answer will attach to the report.

8- Course enhancement:
Progress on actions identified in the previous year's action plan:

Actions required	Planned Completion date	Accomplishment
5. Add some new references.	1 year	70 %
6. Add some applications.	1 year	70 %

Action State whether completed and give reasons for any non-completion Non
9- Action plan for academic year 2017 – 2018.

Actions required	Completion date	Person responsible
5. Depends on modern references	1 year	Coordinator
6. Focusing on applied problems	1year	Coordinator

Course coordinator: Prof. Dr/ Mohamed Ali
Signature:
Date: 2016/2017

Annual Course Report

Academic year 2016-2017

A- Basic Information

1- Title and code: **General Physics (2) /105 Ph**
2- Program(s) on which this course is given: **Special Physics B. Sc. Program.**
3- Year/Level of program: **(2016/2017) / 1st Level (Second semester)**
4- Credit hours

Lectures 2 Tutorial 1 Practical 0 Total 28

5- Names of lecturers contributing to the delivery of the course: **Non**
Course coordinator: **Prof. Dr/ Saed Abed Elgany.**
External evaluator: **Not available**

B- Statistical Information

No. of students attending the course: No. 481 100%
No. of students completing the course: No. 480 99.8 %
Results:

	No.	%
Passed	414	86.3
Failed	66	13.7

Grading of successful students:

	No.	%
Excellent	38	8
Very Good	144	30
Good	159	33.1
Pass	73	15.2

C- Professional Information

1 – Course teaching

3 – Contents

No.	Topic	Lecture hours	Tutorial hours	Practical hours
1	The nature and propagation of light	2	1	0
2	Reflection and refraction of spherical wave at plane and spherical surfaces	2	1	0
3	Mirrors and Lenses	2	1	0
4	The structure of the eye	2	1	0
5	Cameras, microscopes and Telescopes	2	1	0
6	Colom's Low and continuity of Colom's low.	2	1	0
7	**Mid-Term Exam**	2	1	0
8	Electrostatic field and potential	2	1	0
9	Capacitors	2	1	0
10	Dielectric materials	2	1	0
11	Electric Current and DC Circuits	2	1	0
12	Kirchhoff Low and electric circuit analysis	2	1	0
13	Magnetic field and forces	2	1	0

14	Electromagnetic induction	2	1	0
	Total hours	28	14	0

Topics taught as a percentage of the content specified:
>90 % yes 70-90 % - <70% -
Reasons in detail for not teaching any topic
If any topics were taught which are not specified, give reasons in detail

Achieved program intended learning outcomes, ILO's:

Knowledge and Understanding	Intellectual skills	Applied Skills	General transferable skills
a1, a2, a3, and a4.	b1, b2, b3, and b4.	c1, c2, and c3.	d1, d2, and d3.

2- Teaching and learning methods:
Lectures: Yes
Practical training/ laboratory: No
Seminar/Workshop: Yes
Class activity:
Yes
Case Study: Manual notebook and external references
Other assignments/homework: Non
If teaching and learning methods were used other than those specified, list and give reasons:

3- Student assessment:

Method of assessment	Percentage of total
Written examination	80%
Oral examination	5 %
Practical/laboratory work	0%
Other assignments/class work	5 %
Mid-Term Exam	10 %
Total	100 %

Members of examination committee: Coordinator
Role of external evaluator: Not available

4- Facilities and teaching materials:
Totally adequate
Manual not book, Blackboard, Projector, and Scientific references in Library.
Adequate to some extent Scientific references books and computers
Inadequate -
List any inadequacies: -

5- Administrative constraints
List any difficulties encountered

Some apparatus is old. The theoretical topics need more explanation.

6- Student evaluation of the course: **Response of course team**

List any criticisms	
1- The course has a little chance of interaction. with the instructor.	We divided them into sets which does not exceed 150 students.
2- The course has a small variation of topics.	We add many new topics.

7- Comments from external evaluator(s):
Not available and a copy of the exam and answer will attach to the report.

8- Course enhancement:
Progress on actions identified in the previous year's action plan:

Actions required	Planned Completion date	Accomplishment
7. Add some new references.	1 year	70 %
8. Add some applications.	1 year	70 %

Action State whether completed and give reasons for any non-completion Non

9- Action plan for academic year 2017 – 2018.

Actions required	Completion date	Person responsible
7. Depends on modern references	1 year	Coordinator
8. Focusing on applied topics.	1year	Coordinator

Course coordinator: Prof. Dr/ Saed Abed Elghany.
Signature:
Date: 2016/2017

Annual Course Report
Academic year 2016-2017

A- Basic Information

1- Title and code: **Practical physics (2)/ 181 Ph**
2- Program(s) on which this course is given: **Special Physics B. Sc. Program.**
3- Year/Level of program: **(2016/2017) / 1st Level (Second semester)**
4- Credit hours

Lectures 0 Tutorial 0 Practical 3 Total 28

5- Names of lecturers contributing to the delivery of the course: **Non**
Course coordinator: **Prof. Dr/ Eslam Sheha**
External evaluator: **Not available**

B- Statistical Information

No. of students attending the course: No. 551 100%
No. of students completing the course: No. 549 99.6 %

Results:

	No.	%
Passed	527	95.9
Failed	22	4.1

Grading of successful students:

	No.	%
Excellent	200	36.4
Very Good	144	26.2
Good	71	12.9
Pass	22	4.1

C- Professional Information

1 – Course teaching

No.	Topic	Lecture hours	Tutorial hours	Practical hours
1	Introduction in the measurement unites, tools, Eros and Precise measurements.	0	0	3
2	Ohm's Law.	0	0	3
3	The Metric Bridge.	0	0	3
4	The tangent galvanometer.	0	0	3
5	Meld's experiment.	0	0	3
6	Comparison of magnetic moment of two magnets.	0	0	3
7	**Mid-Term Exam**	0	0	3
8	Concave Mirror.	0	0	3
9	Convex Lens.	0	0	3
10	Concave Mirror.	0	0	3
11	Convex Lens.	0	0	3
12	Newton's formula of the lenses.	0	0	3

13	Verification of Kirchhoff's law.	0	0	3
14	Review and summary.	0	0	3
	Total hours	0	0	42

Topics taught as a percentage of the content specified:
>90 % yes 70-90 % - <70% -
Reasons in detail for not teaching any topic
If any topics were taught which are not specified, give reasons in detail

Achieved program intended learning outcomes, ILO's:

Knowledge and Understanding	Intellectual skills	Applied Skills	General transferable skills
a1, a2, a3, and a4.	b1, b2, b3, and b4.	c1, c2, and c3.	d1, d2, and d3.

2- Teaching and learning methods:
Lectures: Yes
Practical training/ laboratory: No
Seminar/Workshop: Yes
Class activity:
Yes
Case Study: Manual notebook and external references
Other assignments/homework: Non
If teaching and learning methods were used other than those specified, list and give reasons:

3- Student assessment:

Method of assessment	Percentage of total
Written examination	5%
Oral examination	0 %
Practical/laboratory work	80%
Other assignments/class work	0 %
Mid-Term Exam	5 %
Total	100%

Members of examination committee: Coordinator
Role of external evaluator: Not available

4- Facilities and teaching materials:
Totally adequate
Manual not book, Blackboard, Projector, and Scientific references in Library.
Adequate to some extent Scientific references books and computers
Inadequate -
List any inadequacies: -

5- Administrative constraints

List any difficulties encountered

Some apparatus is old. New computerized experiments are necessary needed in Lab.

6- Student evaluation of the course: **Response of course team**

List any criticisms

3-	We need to visit some practical factories companies to see the real practical applications in industry.	We tried to give them a lot of practical and examples in real industry and visit some research laboratories in our Dep.

7- Comments from external evaluator(s):

Not available and a copy of the exam and answer will attach to the report.

8- Course enhancement:

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

Actions required	Planned Completion date	Accomplishment
9. Add some new references.	1 year	70 %
10. Add some applications.	1 year	70 %

Action State whether completed and give reasons for any non-completion Non

9- Action plan for academic year 2017 – 2018.

Actions required	Completion date	Person responsible
9. Depends on modern references.	1 year	Coordinator
10. Focusing on applied experiments.	1 year	Coordinator

Course coordinator: Prof. Dr/ Eslam Sheha

Signature:

Date: 2016/2017

Annual Course Report

Academic year 2016-2017

A- Basic Information

1- Title and code: General Physics (2) /105 Ph
2- Program(s) on which this course is given: Special Physics B. Sc. Program.
3- Year/Level of program: (2016/2017) / 1st Level (Second semester)
4- Credit hours

Lectures 2 Tutorial 1 Practical 0 Total 28

5- Names of lecturers contributing to the delivery of the course: Non
Course coordinator: Prof. Dr/ Saed Abed Elgany.
External evaluator: Not available

B- Statistical Information

No. of students attending the course: No. 481 100%
No. of students completing the course: No. 480 99.8 %

Results:

	No.	%
Passed	414	86.3
Failed	66	13.7

Grading of successful students:

	No.	%
Excellent	38	8
Very Good	144	30
Good	159	33.1
Pass	73	15.2

C- Professional Information

1 – Course teaching

3 – Contents

No.	Topic	Lecture hours	Tutorial hours	Practical hours
1	The nature and propagation of light	2	1	0
2	Reflection and refraction of spherical wave at plane and spherical surfaces	2	1	0
3	Mirrors and Lenses	2	1	0
4	The structure of the eye	2	1	0
5	Cameras, microscopes and Telescopes	2	1	0
6	Colom's Low and continuity of Colom's low.	2	1	0
7	**Mid-Term Exam**	2	1	0
8	Electrostatic field and potential	2	1	0
9	Capacitors	2	1	0
10	Dielectric materials	2	1	0
11	Electric Current and DC Circuits	2	1	0
12	Kirchhoff Low and electric circuit analysis	2	1	0

13	Magnetic field and forces	2	1	0
14	Electromagnetic induction	2	1	0
	Total hours	**28**	**14**	**0**

Topics taught as a percentage of the content specified:
>90 % yes 70-90 % - <70% -
Reasons in detail for not teaching any topic
If any topics were taught which are not specified, give reasons in detail

Achieved program intended learning outcomes, ILO's:

Knowledge and Understanding	Intellectual skills	Applied Skills	General transferable skills
a1, a2, a3, and a4.	b1, b2, b3, and b4.	c1, c2, and c3.	d1, d2, and d3.

2- Teaching and learning methods:
Lectures: Yes
Practical training/ laboratory: No
Seminar/Workshop: Yes
Class activity:
Yes
Case Study: Manual notebook and external references
Other assignments/homework: Non
If teaching and learning methods were used other than those specified, list and give reasons:

3- Student assessment:

Method of assessment	Percentage of total
Written examination	80%
Oral examination	5 %
Practical/laboratory work	0%
Other assignments/class work	5 %
Mid-Term Exam	10 %
Total	100 %

Members of examination committee: Coordinator
Role of external evaluator: Not available

4- Facilities and teaching materials:
Totally adequate
Manual not book, Blackboard, Projector, and Scientific references in Library.
Adequate to some extent Scientific references books and computers
Inadequate -
List any inadequacies: -

5- Administrative constraints

List any difficulties encountered

Some apparatus is old. The theoretical topics need more explanation.

6- Student evaluation of the course: **Response of course team**

List any criticisms

4-	The course has a little chance of interaction. with the instructor.	We divided them into sets which does not exceed 150 students.
5-	The course has a small variation of topics.	We add many new topics.

7- Comments from external evaluator(s):

Not available and a copy of the exam and answer will attach to the report.

8- Course enhancement:

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

Actions required	Planned Completion date	Accomplishment
11. Add some new references.	1 year	70 %
12. Add some applications.	1 year	70 %

Action State whether completed and give reasons for any non-completion Non

9- Action plan for academic year 2017 – 2018.

Actions required	Completion date	Person responsible
11. Depends on modern references	1 year	Coordinator
12. Focusing on applied topics.	1year	Coordinator

Course coordinator: Prof. Dr/ Saed Abed Elghany.

Signature:

Date: 2016/2017

Annual Course Report
2021-2022

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:	2021-2022 /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
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. 226** **100 %**
No. of students completing the course: **No. 225** **99.6%**
Results:

	No.	%
Passed	**218**	**96.5**
Failed	**8**	**3.5**

Grading of successful students:

	No.	%
Excellent	**62**	**27.55**
Very Good	**63**	**28**
Good	**78**	**34.67**
Pass	**15**	**6.67**

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 2021-2022

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
2021-2022

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:	2021-2022 /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. 224** **100 %**
No. of students completing the course: **No. 223** **99.6%**
Results:

	No.	**%**
Passed	**145**	**64.7**
Failed	**79**	**35.3**

Grading of successful students:

	No.	**%**
Excellent	**38**	**17.04**
Very Good	**44**	**19.73**
Good	**39**	**17.49**
Pass	**24**	**10.76**

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, d1and 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 2021-2022

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
2021-2022

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:	2021-2022 /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.** 215 **100 %**
No. of students completing the course: **No.** 214 **99.5 %**
Results:

	No.	%
Passed	**190**	**88.4**
Failed	**25**	**11.6**

Grading of successful students:

	No.	%
Excellent	**32**	**14.95**
Very Good	**70**	**32.71**
Good	**57**	**26.63**
Pass	**31**	**14.49**

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 2021-2022

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
2021-2022

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:	2021-2022 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.** 253 **100 %**
No. of students completing the course: **No.** 245 **96.8%**
Results:

	No.	%
Passed	**182**	**71.9**
Failed	**71**	**28.1**

Grading of successful students:

	No.	%
Excellent	**54**	**22.04**
Very Good	**58**	**23.67**
Good	**45**	**18.37**
Pass	**25**	**10.20**

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: 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, b1, b2, b3.	sixteenth week	80 %
Total			100 %

Members of examination committee:

Dr. Asmaa AboEl-soud

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 2021-2022

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
2021-2022

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:	2021-2022 / 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.** 223 **100 %**
No. of students completing the course: **No.** 222 **99.6%**
Results:

	No.	**%**
Passed	**222**	99.6
Failed	**1**	**0.4**

Grading of successful students:

	No.	**%**
Excellent	**191**	**86.04**
Very Good	**28**	**12.61**
Good	**3**	**1.35**
Pass	**0**	**0**

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 2021-2022

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
2021-2022

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:	2021-2022 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.	%
Passed	**230**	**99.6**
Failed	**1**	**0.4**

Grading of successful students:

	No.	%
Excellent	**161**	**70**
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: 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, 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 2021-2022

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
2021-2022

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:	2021-2022 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.	%
Passed	**60**	**78.9**
Failed	**16**	**21.1**

Grading of successful students:

	No.	%
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 d1and 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 2021-2022

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
2021-2022

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:	2021-2022 /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.** 4 **100 %**
No. of students completing the course: **No.** 4 **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, Anthrathene, 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: 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, 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 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 2021-2022

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
2021-2022

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:	2021-2022 /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 I_A / 1 elements	2	1	0	7.14%
5. General properties and chemistry of group II_A / 2 elements	2	1	0	7.14%
6. General properties and chemistry of group III_A /13 elements	2	1	0	7.14%
7. Mid-term exam	2	1	0	7.14%
8. General properties and chemistry of group V_A /15 elements	2	1	0	7.14%
9. General properties and chemistry of group VI_A / 16 elements	2	1	0	7.14%
10. General properties and chemistry of group VII_A / 17 elements	2	1	0	7.14%
11. General properties and chemistry of group $VIII_A$ /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%**

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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	fivteenth 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 2021-2022

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
2021-2022

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:	2021-2022/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.Asmaa Aboelsaoud
Course coordinator:
Prof.Dr.Nahed Fouad
Prof.Dr.Asmaa 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.	**%**
Passed	**195**	85.5
Failed	**33**	**14.5**

Grading of successful students:

	No.	**%**
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 Ibrahem Eid

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 2021-2022

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
2021-2022

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:	2021-2022 /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.** 229 **100 %**
No. of students completing the course: **No.** 227 **99.1%**
Results:

	No.	**%**
Passed	**221**	96.5
Failed	**8**	**3.5**

Grading of successful students:

	No.	**%**
Excellent	**113**	**49.78**
Very Good	**62**	27.31
Good	**38**	**16.74**
Pass	**8**	**3.52**

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 diffeerent 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 2021-2022

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
2021-2022

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:	2021-2022 /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.** 231 **100 %**
No. of students completing the course: **No.** 230 **99.6%**
Results:

	No.	**%**
Passed	**207**	89.6
Failed	**24**	**10.4**

Grading of successful students:

	No.	**%**
Excellent	**93**	**40.43**
Very Good	**66**	28.69
Good	**36**	**15.65**
Pass	**12**	**5.22**

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 2021-2022

Course coordinator:

Prof.Dr. Mohammed Morsy
Prof.Dr.Abdel Fattah Faded
Prof.Dr.Kawther Abd elhalim

Program coordinator: Prof. Dr. Safinaz M. Reda

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

Date: 2022-2023

Annual Course Report

2021-2022

A- Basic Information		
1- Title and code:	311 Ch: Organic reaction mechanism (2)	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	2021-2022 / B.Sc. (undergraduate)	
4- Teaching hours	Lectures hrs. /week	3
	Tutorial hrs. /week	0
	Practical hrs. /week	3
	Total hrs. /week	6
4- Credit hours	Total credit hrs.	3

5- Names of lecturers contributing to the delivery of the course:
Prof.Dr. Mohamed Sayed Behalo
Dr. Abdel Motaal Abdel Mgeed

Course coordinator: Prof.Dr. Mohamed Sayed Behalo
Dr. Abdel Motaal Abdel Mgeed
External evaluator: None

B- Statistical Information

No. of students attending the course: **No. 279** **100 %**
No. of students completing the course: **No. 278** **99.6 %**
Results:

	No.	**%**
Passed	**257**	92.1
Failed	**22**	**7.9**

Grading of successful students:

	No.	**%**
Excellent	**53**	**19.06**
Very Good	**91**	**32.73**
Good	**90**	**32.37**
Pass	**23**	**8.27**

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
1. Introduction to organic reaction mechanism	3	0	3
2. Unimolecular nucleophilic substitution at	3	0	3
3. Bimolecular nucleophilic substitution at	3	0	3
4. Nucleophilic substitution at unsaturated	3	0	3
5. Electrophilic substitution reactions	3	0	3
6. Addition reactions to carbonyl compounds	3	0	3
7. Mid-term Exam	3		3
8. Addition reactions to alkenes and nitriles	3	0	3
9. Pericyclic addition reactions	3	0	3
10. Elimination reactions (α, β, γ- elimination)	3	0	3
11. Elimination reactions (E1, E2- elimination)	3	0	3
12. Molecular rearrangements	3	0	3
13. Nonkinetic methods for the elucidation of	3	0	3
14. Revision	3	0	3
Total hours	42	0	42

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 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, b3, b4and d1	Fifth week	3 %
Mid-Term Exam	a1, a2, a3, a5, a6, b1.	Seventh week	3 %
Oral exam	a1, a2, a3, a4, b1, b2, b4, .d3,	fifteenth week	6 %
Practical exam	C1 to c3	sixteenth week	40%
Written exam	a1, a2, a3, a4, b1, b2, b3.	seventeenth week	48 %
Total			100 %

Members of examination committee:

Prof.Dr. Mohamed Sayed Behalo
Dr. Abdel Motaal Abdel Mgeed

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
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

Program coordinator: Prof. Dr. Safinaz M. Reda

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

Date: 2022-2023

Annual Course Report
2021-2022

A- Basic Information		
1- Title and code:	Insecticides and toxins chemistry 313Ch	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	2021-2022 / B.Sc. (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. Aml Mohammed
Dr. Enas Abdel Alim

Course coordinator:	**Dr. Aml Mohammed** **Dr. Enas Abdel Alim**
External evaluator: None	

B- Statistical Information

No. of students attending the course: **No. 283** **100 %**
No. of students completing the course: **No. 283** **100 %**
Results:

	No.	%
Passed	**268**	94.7
Failed	**15**	**5.3**

Grading of successful students:

	No.	%
Excellent	**96**	**33.9**
Very Good	**98**	**34.6**
Good	**59**	**20.9**
Pass	**15**	**5.3**

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
Introduction to insecticides and toxins	2	0	0
Classification of insecticides	2	0	0
Toxicity of organic compounds	2	0	0
Synthesis of DDT	2	0	0
properties of DDT	2	0	
Organic sulfur compounds	2	0	0
Organic nitrogen compounds	2	0	0
Mid-term exam	2	0	0
Organic phosphorous compounds	2	0	0
Chloro derivatives	2	0	0
Carbamate insecticides	2	0	0
Natural insecticides	2	0	0

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 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: 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, b3, b4, and	Fifth week	5 %
Mid-Term	a1, a2, a3, a5, a6, b1, d1,	Seventh week	5 %
Oral exam	a1, a2, a3, a4, b1, b2, b4,	fifteenth week	10 %
Written exam	a1, a2, a3, a4, b1, b2,	Sixteenth week	80 %
Total			100 %

Members of examination committee:

Dr. Aml Mohammed

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

Program coordinator: Prof. Dr. Safinaz M. Reda

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

Date: 2022-2023

Annual Course Report
2021-2022

A- Basic Information		
1- Title and code:	**Chemistry of counterfeiting and forgery** (321 Ch)	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	2021-2022 / B.Sc. (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. Gamal Ewies**
Dr. Ehab Saleh

Course coordinator:	**Prof. Dr. Gamal Ewies**
	Dr. Ehab Saleh
External evaluator: None	

B- Statistical Information

No. of students attending the course: **No. 257** **100 %**
No. of students completing the course: **No. 256** **99.6 %**
Results:

	No.	%
Passed	**255**	**99.2**
Failed	**2**	**0.8**

Grading of successful students:

	No.	%
Excellent	**100**	**39.06**
Very Good	**132**	**51.56**
Good	**22**	**8.59**
Pass	**1**	**0.4**

C- Professional Information

1 – Course teaching

Topic	Lecture	Tutorial	Practical
1. General methods of counterfeiting	2	0	2
2. Different types of inks, secret inks and	2	0	2
3. Different types of inks, secret inks and	2	0	2
4. Method of protection used in the	2	0	2
5. Security features included in the	2	0	2
6. Printing used in the value-documents	2	0	2
7. Mid-Term Exam.	2	0	2
8. Different types of both of Fingerprint	2	0	2
9. Different types of both of Fingerprint	2	0	2
10. Different methods of raising and	2	0	2
11. Different methods of raising and	2	0	2
12. Examination of DNA and their	2	0	2
13. Role of some instrumental devices	2	0	2
14. Role of some instrumental devices	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 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, 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:
Prof. Dr. Gamal Ewies
Dr. Ehab Saleh

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. Gamal Ewies**
	Dr. Ehab Saleh

Program coordinator: Prof. Dr. Safinaz M. Reda

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

Date: 2022-2023

Annual Course Report

2021-2022

A- Basic Information		
1- Title and code:	Transition elements & Coordination Chemistry (323 Ch)	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	2021-2022 / B.Sc. (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. Mostafa Y. Nassar
Dr. Sabry Hamed
Dr. Naglaa Mashaal

Course coordinator: Prof.Dr. Mostafa Y. Nassar
Dr. Sabry Hamed
Dr. Naglaa Mashaal

External evaluator: None

B- Statistical Information

No. of students attending the course:	**No. 276**	**100 %**
No. of students completing the course:	**No. 275**	**99.6 %**

Results:

	No.	%
Passed	**241**	**87.3**
Failed	**35**	**12.7**

Grading of successful students:

	No.	%
Excellent	**48**	**17.45**
Very Good	**102**	**37.09**
Good	**66**	**24**
Pass	**25**	**9.1**

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
1. Introduction to transition metal complexes including Werner theory.	2	0	0
2. Nomenclature of coordination compounds.	2	0	0
3. Isomerism of coordination compounds.	2	0	0
4. Valence bond theory.	2	0	0
5. Crystal field theory.	2	0	0
6. Magnetism and color and Molecular orbital theory.	2	0	0
7. Mid-Term Exam.	2	0	0
8. General properties of groups 3 and 4	2	0	0
9. General properties of groups 5 and 6	2	0	0
10. General properties of groups 7 and 8	2	0	0
11. General properties of groups 9 and 10	2	0	0
12. General properties of group 11 and 10	2	0	0
13. General properties of group 11 and 10	2	0	0
14. Revision	2	0	0
Total hours	28	0	0

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: 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, 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: **Prof.Dr. Mostafa Y. Nassar**
Dr. Sabry Hamed
Dr. Naglaa Mashaal

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. Mostafa Y. Nassar**
Dr. Sabry Hamed
Dr. Naglaa Mashaal

Program coordinator: Prof. Dr. Safinaz M. Reda

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

Date: 2022-2023

Annual Course Report
2021-2022

A- Basic Information		
1- Title and code:	Irreversible electrochemistry (330 Ch)	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	2021-2022 / B.Sc. (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. Nahed Fouad**

Course coordinator: Dr. Nahed Fouad

External evaluator: None

B- Statistical Information

No. of students attending the course: **No. 249** **100 %**
No. of students completing the course: **No. 248** **99.6 %**
Results:

	No.	%
Passed	**190**	**76.3**
Failed	**59**	**23.7**

Grading of successful students:

	No.	%
Excellent	**33**	**13.3**
Very Good	**51**	**20.56**
Good	**62**	**25**
Pass	**44**	**17.7**

C- Professional Information

1 – Course teaching

1. Introduction to electrochemistry.	2	0	0
2. Faraday 's laws	2	0	0
3. Kinetics of electrode reaction	2	0	0
4. Types of polarization	2	0	0
5. Hydrogen and oxygen evolution	2	0	0
6. Types of double layer	2	0	0
7. Mid-Term Exam.	2	0	0
8. Electroplating part (1)	2	0	0
9. Electroplating part (2)	2	0	0
10.Batteries (part 1)	2	0	0
11.Batteries (part 2)	2	0	0
12.Polarography part (1)	2	0	0
13.Polarography part (2)	2	0	0
14.Revision	2	0	0
Total hours	**24**	0	0

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: **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	Thirteenth week	10 %
Written exam	a1, a2, a3, a4, a5, b1, b2, b3, b4, b5, and d2	Fourteenth week	80 %
Total			100 %

Members of examination committee:

Dr. Nahed Fouad

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: Dr. Nahed Fouad

Program coordinator: Prof. Dr. Safinaz M. Reda

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

Date: 2022-2023

Annual Course Report

2021-2022

A- Basic Information		
1- Title and code:	331 Ch: Kinetics & Photochemistry Chemistry	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	2021-2022 / B.Sc. (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. Wafaa Abdallah Bayumy
Prof.Dr. Safenaz Mohamed Reda

Course coordinator:

Prof.Dr. Wafaa Abdallah Bayumy
Prof.Dr. Safenaz Mohamed Reda

External evaluator: None

B- Statistical Information

No. of students attending the course: **No. 256** **100 %**
No. of students completing the course: **No. 255** **99.6 %**
Results:

	No.	%
Passed	**253**	98.8
Failed	**3**	**1.2**

Grading of successful students:

	No.	%
Excellent	**105**	**41.176**
Very Good	**120**	**47.0588**
Good	**27**	**10.588**
Pass	**1**	**0.39**

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
1. Introduction to principle of chemical kinetics and photochemical reactions	2	0	3
2. Definition of rate of reactions and laws of photochemical reactions.	2	0	3
3. a) Factors affecting on rate of reactions b) Quantum efficiency.	2	0	3
4. a)Rate laws b) Factor affecting on quantum yield.	2	0	3
5. a)Kinetics laws (Zero, first, second). b) Experimental determination of quantum yield.	2	0	3
6. a)Kinetics laws (third, higher). b) Experimental determination of	2	0	3
7. Mid-Term Exam.	2	0	3
8. a)Kinetics laws(fractional, second). b) High and low quantum yields.	2	0	3
9. a)Methods of determination of order of reactions(half- life time, graphical	2	0	3
10. Theories for rate of reactions (Arrhenius equation and significance of	2	0	3
11. Mechanism of chain reactions.	2	0	3
12. Kinetics of complex reactions and photochemical reactions	2	0	3
13. Steady state treatment to some photo-reactions.	2	0	3
14. Kinetics of thermal reactions.	2	0	3
Total hours	24	0	36

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 a4	b1 to b6	c1 to C4	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
Mid-Term Exam	a1, a2, b3,b4, d1, d3 and d4	Seventh week	6%
Oral exam	a2, b2, d1, d2 ,d3 and d4	Twelfth week	6%
Practical exam	c1 to c5	Thirteenth week	40 %
Written exam	a1, a2, a4, b1,b3,b4, d1, d3 and d4	Fourteenth week	48%
Total			100 %

Members of examination committee:

Prof.Dr. Wafaa Abdallah Bayumy
Prof.Dr. Safenaz Mohamed Reda

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. Wafaa Abdallah Bayumy**
Prof. Dr. Safenaz Mohamed Reda

Program coordinator: Prof. Dr. Safinaz M. Reda

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

Date: 2022-2023

Annual Course Report
2021-2022

A- Basic Information		
1- Title and code:	337 Ch: Applied electrochemistry (1)	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	2021-2022 / B.Sc. (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. Elsayed Mabrouk

Course coordinator: Prof.Dr. Elsayed Mabrouk

External evaluator: None

B- Statistical Information

No. of students attending the course: **No. 14** **100 %**
No. of students completing the course: **No. 14** **100 %**
Results:

	No.	%
Passed	**14**	100
Failed	**0**	**0**

Grading of successful students:

	No.	%
Excellent	**10**	**71.4**
Very Good	**4**	**28.6**
Good	**0**	**0**
Pass	**0**	**0**

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
1. Introduction on electrochemistry and	2	0	3
2. Electroplating and farady 's law	2	0	3
3. Definations and Importance of	2	0	3
4. Thermodynamics of corrosion	2	0	3
5. Kinitics of corrosion	2	0	3
6. Mixed potential theory	2	0	3
7. Mid-Term Exam.	2	0	3
8. Passivety	2	0	3
9. Types of corrosion (part 1).	2	0	3
10. Types of corrosion (part 2).	2	0	3
11. Prevention Corrosion (part1).	2	0	3
12. Prevention Corrosion (part2).	2	0	3
13. Kinitics of inhibition.	2	0	3
14. Revision	2	0	3
Total hours	28	0	42

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	3 %
Mid-Term Exam	a1, a2, a3, b1, b2, b3 and d2	Seventh week	3%
Oral exam	a1, a2, a3,a4, a5, b1, b2, b3, b4, d2 and d4	fifteenth week	6%
Practical Exam	C1 and C2	Sixteenth week	40%
Written exam	a1, a2, a3, a4, a5, b1, b2, b3, b4, b5.	seventeenth week	48 %
Total			100 %

Members of examination committee:

Prof.Dr. Elsayed Mabrouk

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. Elsayed Mabrouk**

Program coordinator: Prof. Dr. Safinaz M. Reda

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

Date: 2022-2023

Annual Course Report

2021-2022

A- Basic Information		
1- Title and code:	314 Ch: Organic Spectroscopy (2)	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	2021-2022 / B.Sc. (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. Eman gad El-Kareem
Dr. Mohammed Aborya

Course coordinator: **Prof.Dr. Eman gad El-Kareem**
Dr. Mohammed Aborya

External evaluator: None

B- Statistical Information

No. of students attending the course: **No. 21** **100 %**
No. of students completing the course: **No. 21** **100 %**
Results:

	No.	%
Passed	**14**	**66.7**
Failed	**7**	**33.3**

Grading of successful students:

	No.	%
Excellent	**3**	**14.3**
Very Good	**1**	**4.8**
Good	**6**	**28.6**
Pass	**4**	**19**

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
1. Introduction to NMR and Mass	2	1	0
2. Theory of Nuclear Magnetic Resonance and	2	1	0
3. The NMR Spectrometer and the Chemical	2	1	0
4. The number of Signals, Areas of the Peaks,	2	1	0
5. Stereochemical Nonequivalence of protons	2	1	0
6. Carbon-13 NMR Spectroscopy.	2	1	0
7. Mid-Term Exam.	2	1	0
8. Introduction to Mass Spectrometry.	2	1	0
9. Determination of the Molecular Formula by	2	1	0
10. Different Ionization Methods of Mass	2	1	0
11. Different Ionization Methods of Mass	2	1	0
12. Fragmentation Patterns in Mass	2	1	0
13. Applications of Mass Spectrometry in	2	1	0
14. Revision	2	1	0
Total hours	**28**	14	0

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 a8	**b1 to b5**	**c1 to C4**	**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: 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, c1 and d1	Fifth week	5 %
Mid-Term	a1, a2, a3, a7, b1, and b2	Seventh week	5 %
Oral exam	a1, a2, a3, a4, a5, a6, a7, a8, b1, b2, b3, b4, and b5	Fifteenth week	10 %
Written exam	a1, a2, a3, a4, a5, a6, a7, a8, b1, b2, b3, b4, b5.	Sixteenth week	80 %
Total			100 %

Members of examination committee: **Prof.Dr. Eman gad El-Kareem**
Dr. Mohammed Aborya

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. Eman gad El-Kareem**
Dr. Mohammed Aborya

Program coordinator: Prof. Dr. Safinaz M. Reda

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

Date: 2022-2023

Annual Course Report

2021-2022

A- Basic Information		
1- Title and code:	316 Ch: Natural products and Carbohydrates Chemistry	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	2021-2022 / B.Sc. (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. Mohammed Salah
Dr. Hany Ibrahim

Course coordinator: Prof.Dr. Mohammed Salah
Dr. Hany Ibrahim

External evaluator: None

B- Statistical Information

No. of students attending the course: **No. 287** **100 %**
No. of students completing the course: **No. 287** **100 %**
Results:

	No.	%
Passed	**283**	98.6
Failed	**4**	**1.4**

Grading of successful students:

	No.	%
Excellent	**67**	**23.3**
Very Good	**130**	**45.3**
Good	**75**	**26.1**
Pass	**11**	**3.8**

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
1. Introduction to carbohydrates and its categories.	2	0	3
2. Stereo forms (D, L) of Aldoses and Hexoses.	2	0	3
3. Reactions of Monosacharides.	2	0	3
4. Sterio chemistry of glucose.	2	0	3
5. Cyclic structures of Monosacharides.	2	0	3
6. Formation of glycosides.	2	0	3
7. Mid-Term Exam.	2	0	3
8. Disacharides.	2	0	3
9. Polysacharides.	2	0	3
10. Alkaloids and Terpenes chemistry.	2	0	3
11. Chemical catogery of Alkaloids.	2	0	3
12. Terpenes	2	0	3
13. Chemical and physical composition of Alkaloids and Terpenes.	2	0	3
14. Preparation methods of Alkaloids and Terpenes.	2	0	3
Total hours	**28**	0	**42**

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 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 and d1	Seventh week	5 %
Oral exam	a1, a2, a3, a4, b1, b2, b3.	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 Salah
Dr. Hany Ibrahim

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. Mohammed Salah
Dr. Hany Ibrahim

Date: 2022-2023

Program coordinator: Prof. Dr. Safinaz M. Reda

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

Date: 2022-2023

Annual Course Report

2021-2022

A- Basic Information		
1- Title and code:	318Ch: Chemotherapy	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	2021-2022 / B.Sc. (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. Eman gad El-Kareem
Dr. Abdel Motaal Abdel Mgeed

Course coordinator: Prof.Dr. Eman gad El-Kareem
Dr. Abdel Motaal Abdel Mgeed

External evaluator: None

B- Statistical Information

No. of students attending the course: **No. 40** **100 %**
No. of students completing the course: **No. 40** **100 %**
Results:

	No.	%
Passed	**37**	**92.5**
Failed	**3**	**7.5**

Grading of successful students:

	No.	%
Excellent	**23**	**57.5**
Very Good	**8**	**20**
Good	**4**	**10**
Pass	**2**	**5**

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
1. Introduction to chemotherapy	2	0	0
2. Antimetabolites (Sulfa drugs)	2	0	0
3. Mode of action of sulfa drugs	2	0	0
4. Antimalarial drugs: Part one	2	0	0
5. Antimalarial drugs: Part two	2	0	0
6. Mode of action of antimalarials	2	0	0
7. Mid-term exam	2	0	0
8. Beta-lactam antibiotics	2	0	0
9. Mode of action of beta-lactam antibiotics	2	0	0
10. Non-beta-lactam antibiotics part (1)	2	0	0
11. Non-beta-lactam antibiotics part (2)			
12. Mode of action of non-beta-lactam antibiotics part (1)	2	0	0
13. Mode of action of non-beta-lactam antibiotics part (2)	2	0	0
14. Revision	2	0	0
Total hours	**28**	0	0

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 C2	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, b1, b2 and c1	Fifth week	5 %
Mid-Term Exam	a1, a2, a3, a4, a5, b1, b2, b3 and d1	Seventh week	5 %
Oral exam	a1, a2, a3, a4, a5, a6, b1, b2, b3, b4 and d1	fifteenth week	10 %
Written exam	a1, a2, a3, a4, a5, a6, b1, b2, b3, b4.	Sixteenth week week	80 %
Total			100 %

Members of examination committee:

Prof.Dr. Eman gad El-Kareem

Dr. Abdel Motaal Abdel Mgeed

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: 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 Non

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. Ali Abdelmaboud Ali** **Dr. Hany Ibrahim Mohamed**

Program coordinator: Prof. Dr. Safinaz M. Reda

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

Date: 2022-2023

Annual Course Report
2021-2022

A- Basic Information		
1- Title and code:	320 Ch: Inorganic chemistry and its application	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	2021-2022 / B.Sc. (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. El Sayed El Mosalamy**
Dr. Ayman Awad Ali Abdel Razik

Course coordinator: **Prof. Dr. El Sayed El Mosalamy**
Dr. Ayman Awad Ali Abdel Razik

External evaluator: None

B- Statistical Information

No. of students attending the course: **No. 261** **100 %**
No. of students completing the course: **No. 260** **99.6 %**
Results:

	No.	%
Passed	**258**	**98.9**
Failed	**3**	**1.1**

Grading of successful students:

	No.	%
Excellent	**147**	**56.5**
Very Good	**107**	**41.15**
Good	**4**	**1.5**
Pass	**0**	**0**

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
1. Introduction in inorganic chemistry	2	0	2
2. Different symmetry operations and elements.	2	0	2
3. Rotation, Reflection and Inversion operation for different inorganic and	2	0	2
4. Introduction to different methods of the preparation of inorganic materials and	2	0	2
5. The preparation of inorganic materials using solid state method	2	0	2
6. The preparation of inorganic materials using coprecipitation, emulsion	2	0	2
7. Mid -term exam	2	0	2
8. The preparation of inorganic materials using hydrothermal method	2	0	2
9. The preparation of inorganic materials using combustion, citrate methods	2	0	2
10. Optical and Electron microscopies technique and different application in	2	0	2
11. IR and Raman spectroscopies and different application in inorganic chemistry	2	0	2
12. NMR and ESR spectroscopies and different application in inorganic chemistry	2	0	2
13. Application of inorganic compds in different fields (1)	2	0	2
14. Application of inorganic compds in different fields (2)	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 a5	b1 to b3	c1 to C4	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, c1, d2, d3, and d1	Fifth week	3 %
Mid-Term Exam	a1, a2, a3, b2, d1, c4 and d2	Seventh week	3 %
Oral exam	a1, a2, a3, a4, b1, b2, b3, and d4	fifteenth week	6 %
Practical exam	C1 to C4	Sixteenth week	40%
Written exam	a1, a2, a3, a4,a5, b1, b2, b3, and d1	seventeenth week	48 %
Total			100 %

Members of examination committee:

Prof. Dr. El Sayed El Mosalamy
Dr. Ayman Awad Ali Abdel Razik

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. El Sayed El Mosalamy**
Dr. Ayman Awad Ali Abdel Razik

Program coordinator: Prof. Dr. Safinaz M. Reda

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

Date: 2022-2023

Annual Course Report

2021-2022

A- Basic Information		
1- Title and code:	338 Ch: Surface, catalysis, colloid and solid state	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	2021-2022/ B.Sc. (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. Tomador Esamy
Dr. Zeinab Abdel Bary
Dr. Marwa Sameeh

Course coordinator:

Dr. Tomador Esamy
Dr. Zeinab Abdel Bary
Dr. Marwa Sameeh

External evaluator: None

B- Statistical Information

No. of students attending the course: **No. 73** **100 %**
No. of students completing the course: **No. 73** **100 %**
Results:

	No.	%
Passed	72	98.6
Failed	**1**	**1.4**

Grading of successful students:

	No.	%
Excellent	**46**	**63**
Very Good	**17**	**23.2**
Good	**7**	**9.5**
Pass	**2**	**2.7**

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
1. Introduction to surface chemistry, catalysis, colloid state.	2	0	0
2. Surface tension and its relation with curvature and effect of temperature on it.	2	0	0
3. Measurements of surface tension and surface activity	2	0	0
4. Surface excess and how be measured, solid/liquid interface, spreading coefficient, Liquid/liquid interface and application of thin films	2	0	0
5. Gas/solid interface, adsorption and adsorption isotherms, hysteresis and surface area, pore volume and pore radius measurments part (1).	2	0	0
6. Gas/solid interface, adsorption and adsorption isotherms, hysteresis and surface area, pore volume and pore radius measurments part (2).	2	2	2
7. Mid-Term Exam. Introduction to Colloid state, types of colloid systems, preparation of	2	0	0
8. Introduction to Colloid state, types of colloid systems, preparation of them	2	0	0
9. The properties of colloid solutions(electrical, optical and kinetic properties, protection of colloid systems)	2	0	0
10. Introduction to catalysis,	2	0	0
11. The components of catalyst part (1).	2	0	0
12. The components of catalyst part (2).	2	0	0
13. Materials used as catalyst (metals, semiconductor, insulators)	2	0	0
14. Preparation of catalyst, function of catalyst	2	0	0
Total hours	**28**	0	**0**

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	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: 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, b1, b2, b3.	sixteenth week	80 %
Total			100 %

Members of examination committee:

Dr. Tomador Esamy
Dr. Zeinab Abdel Bary
Dr. Marwa Sameeh

bayoumyRole 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. Tomador Esamy**
Dr. Zeinab Abdel Bary
Dr. Marwa Sameeh

Program coordinator: Prof. Dr. Safinaz M. Reda

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

Date: 2022-2023

Annual Course Report
2021-2022

A- Basic Information		
1- Title and code:	342 CH: Analytical Chemistry (2)	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	2021-2022 / B.Sc. (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. Gamal Owis

Dr. Ehab Saleh

Dr. Naglaa Mashaal

Dr. Hesham El-Feky

Course coordinator: Prof.Dr. Gamal Owis

Dr. Ehab Saleh

Dr. Naglaa Mashaal

Dr. Hesham El-Feky

External evaluator: None

B- Statistical Information

No. of students attending the course: **No. 288** **100 %**
No. of students completing the course: **No. 288** **100 %**
Results:

	No.	%
Passed	**285**	99
Failed	**3**	**1**

Grading of successful students:

	No.	%
Excellent	**133**	**46.2**
Very Good	**116**	**40.2**
Good	**33**	**11.5**
Pass	**3**	**1**

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
1. Introduction to different types of chromatographic analysis	2	0	0
2. Identify the components of the instrument	2	0	0
3. Studying the spectrum of the chemical structure	2	0	0
4. Application studies of each instrument.	2	0	0
5. Study each type of chromatography.	2	0	0
6. Differentiation between liquid and gas chromatography	2	0	0
7. Mid-term exam	2	0	0
8. Qualitative & quantitative detection using chromatography Tools.	2	0	0
9. Introduction to solvent extraction	2	0	0
10. General properties of solvents & ligands	2	0	0
11. Study the different type of chelate formation	2	0	0
12. General properties of heteropoly acid and nucleic acid	2	0	0
13. General properties of natural exchangers used in chromatographic separation and revision	2	0	0
14. Revision	2	0	0
Total hours	**28**	0	**0**

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, 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, b3and d4	fifteenth week	10 %
Written exam	a1, a2, a3, a4, b1, b2, b3.	sixteenth week	80 %
Total			100 %

Members of examination committee:

Prof.Dr. Gamal Owis
Dr. Ehab Saleh
Dr. Naglaa Mashaal
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
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. Gamal Owis**

Dr. Ehab Saleh

Dr. Naglaa Mashaal

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
2021-2022

A- Basic Information		
1- Title and code:	Instrumental Analysis Chemistry (1) (441 Ch)	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	2021-2022 / B.Sc. (undergraduate)	
4- Teaching hours	Lectures hrs. /week	3
	Tutorial hrs. /week	0
	Practical hrs. /week	3
	Total hrs. /week	6
4- Credit hours	Total credit hrs.	4

5- Names of lecturers contributing to the delivery of the course:	
	Prof. Dr. Mostafa Y. Nassar
	Prof. Dr. Gamal Owes
	Dr. Aymn Abdel Razek
Course coordinator:	Prof. Dr. Mostafa Y. Nassar
	Prof. Dr. Gamal Owes
	Dr. Aymn Abdel Razek
External evaluator:	None

B- Statistical Information

No. of students attending the course: **No.** 266 **100 %**
No. of students completing the course: **No.** **264** **99%**
Results:

	No.	**%**
Passed	**263**	99.5
Failed	**1**	**0.5**

Grading of successful students:

	No.	**%**
Excellent	**140**	**53**
Very Good	**108**	**41**
Good	**14**	**5.5**
Pass	**1**	**0.5**

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
1. Introduction to spectral analysis.	3	0	3
2. Beer's Law and its deviations.	3	0	3
3. Component of the instrument.	3	0	3
4. Application of spectrophotometry.	3	0	3
5. Introduction to atomic absorption spectrometry.	3	0	3
6. Instrumentation of atomic spectrometry.	3	0	3
7. Mid-Term Exam.	3	0	3
8. Atomic emission spectrometry.	3	0	3
9. Introduction to IR spectrometry	3	0	3
10. Application of IR spectra	3	0	3
11. X-ray spectrometry	3	0	3
12. Introduction to thermal analysis	3	0	3
13. Application of thermal analysis	3	0	3
14. Final revision with explain some charts	3	0	3
Total hours	**42**	0	**42**

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 a10	**b1 to b5**	**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	5 %
Mid-Term Exam	a1, a2, a3, a4, a7,b2,b4, d1, and d2	Seventh week	5 %
Oral exam	a1, a2, a3, a4,a7,a8, b1, b2, b3, and d4	fifteenth week	10 %
Written exam	a1, a2, a3, a4,a10, b1, b2, b3, b4.	sixteenth week	80 %
Total			100 %

Members of examination committee	Prof. Dr. Mostafa Y. Nassar
	Prof. Dr. Gamal Owes
	Dr. Aymn Abdel Razek

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)	Head of the department and all course instructors	By the beginning of the second semester of the academic year 2022-2023

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.		

Course coordinator: Prof. Dr. Mostafa Y. Nassar
Prof. Dr. Gamal Owes
Dr. Aymn Abdel Razek

Program coordinator: Prof. Dr. Safinaz M. Reda

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

Date: 2022-2023

Annual Course Report
2021-2022

A- Basic Information		
1- Title and code:	Petroleum additives chemistry (413 Ch)	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	2021-2022 / B.Sc. (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. Ahmed Tantawy
Dr. Hany Ibrahim
6-Course coordinator:
Dr. Ahmed Tantawy
Dr. Hany Ibrahim
External evaluator: None

B- Statistical Information

No. of students attending the course: **No. 274** **100 %**
No. of students completing the course: **No. 272** **99.27%**
Results:

	No.	%
Passed	**242**	**88.3**
Failed	**32**	**11.7**

Grading of successful students:

	No.	%
Excellent	**39**	**14.34**
Very Good	**69**	**25.37**
Good	**89**	**32.72**
Pass	**45**	**16.54**

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
1. Introduction to the principles of petroleum chemistry	2	0	0
2. General introduction of petroleum additives	2	0	0
3. General properties of petroleum additives	2	0	0
4. Application of petroleum additives in lubricating oils.	2	0	0
5. Application of petroleum additives in fuels.	2	0	0
6. Application of petroleum additives in kerosene.	2	0	0
7. Mid-Term Exam.	2	0	0
8. Application of petroleum additives in gasoline.	2	0	0
9. The important properties of fuels, lubricating oils, gasoline,	2	0	0
10. Changing in physical properties after addition of additives	2	0	0
11. Changing in physical properties after addition of additives	2	0	0
12. gasoline, and kerosene additives.	2	0	0
13. Changing in physical properties after addition of additives	2	0	0
14. Improvement properties of fuels, lubricating oils, gasoline,	2	0	0
Total hours	**28**	0	**0**

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: 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, 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, 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. Wagdey Eldogdog
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	Head of the department and all course instructors	By the beginning of the second semester of the academic year 2022-2023

basic theoretical contents of the course and the practical applications that can be used based on these theoretical aspects.		

Course coordinator: Dr. Ahmed Tantawy

Dr. Hany Ibrahim

Program coordinator: Prof. Dr. Safinaz M. Reda

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

Date: 2022-2023

Annual Course Report
2021-2022

A- Basic Information		
1- Title and code:	Petroleum chemistry & Polymers (411 Ch)	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	2021-2022 / B.Sc. (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. Moahammed Abo Riya
	Dr. Aml Mohammed
Course coordinator:	Dr. Moahammed Abo Riya
	Dr. Aml Mohammed
External evaluator: None	

B- Statistical Information

No. of students attending the course: **No.** 264 **100 %**
No. of students completing the course: **No.** 262 **99%**
Results:

	No.	**%**
Passed	227	**86**
Failed	**37**	**14**

Grading of successful students:

	No.	**%**
Excellent	**75**	**33**
Very Good	**57**	**25**
Good	**60**	**26.5**
Pass	**35**	**15.5**

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
1. Introduction to petroleum chemistry.	2	0	3
2. The theory of the origin of petroleum, its Physical properties and its chemical composition.	2	0	3
3. Petroleum processing.	2	0	3
4. Separation processes.	2	0	3
5. Conversion processes.	2	0	3
6. Treating process.	2	0	3
7. Mid-Term Exam.	2	0	3
8. Introduction of polymers and the types of polymerization	2	0	3
9. Synthesis methods of some polymers	2	0	3
10. General properties of polymers and its improvement.	2	0	3
11. Use of polymer in industrial and its application part (1).	2	0	3
12. Use of polymer in industrial and its application part (2).	2	0	3
13. Preparation of some polymer used in industrial part (1).	2	0	3
14. Use of polymer in industrial and its application part (2)	2	0	3
Total hours	**28**	0	**42**

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 b5	c1 to c4	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, c1 and d1	Fifth week	5 %
Mid-Term Exam	a1, a2, a3, b2, , d1, and d2	Seventh week	5 %
Oral exam	a1, a2, a3, a4, a5, b1, b2, b3, b4, b5, 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 **Prof. Dr. Abdelfattah Fadel**
Dr. Mohamed Abo-ryia

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. Moahammed Abo Riya
Dr. Aml Mohammed

Program coordinator: Prof. Dr. Safinaz M. Reda

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

Date: 2022-2023

Annual Course Report
2021-2022

A- Basic Information		
1- Title and code:	Quantum chemistry & statistical thermodynamic (439 Ch)	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	2021-2022 / B.Sc. (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.Mervat Asem
Dr. Kamal. A. Soliman

Course coordinator: Prof. Dr. Mervat
Dr. Kamal. A. Soliman

External evaluator: None

B- Statistical Information

No. of students attending the course: **No.** 253 **100 %**
No. of students completing the course: **No.** 245 **96.84 %**
Results:

	No.	%
Passed	**182**	**71.9**
Failed	**71**	**28.1**

Grading of successful students:

	No.	%
Excellent	**54**	**22.04**
Very Good	**58**	**23.67**
Good	**45**	**18.37**
Pass	**25**	**10.20**

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
1- The time- independent and time-dependent Schrodinger	2	1	0
2- Operators - Commutations relations	2	1	0
3- Postulates and Theorems of Quantum Mechanics	2	1	0
4- Some analytically soluble problems - Time-independent and dependent Perturbation theory	2	1	0
5- The variation theorem- Huckel theory of conjugated hydrocarbons - Symmetry elements and symmetry	2	1	0
6- Reducible and Irreducible representations	2	1	0
7-Mid term exam	2	1	0
8- Molecular vibrations- Bonding theory	2	1	0
9- Kinetic theory of gases and heat capacity- Principles of equipartition of energy- Classical calculations of heat capacity	2	1	0
10- The partition function- Separation of energy	2	1	0
11- The electronic, translational, rotational, and vibrational partition functions	2	1	0
12- Entropy at absolute zero- Entropies of gases	2	1	0
13- Tests of the third law of thermodynamics- The Boltzman-Planck equation	2	1	0
14- Thermodynamic probability and statistical calculations of entropy- Vibrational, nuclear spin, and rotational	2	1	0
Total hours	**28**	14	**0**

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 a7	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: 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, a4, a5,a6,b2, d1, and d2	Seventh week	5 %
Oral exam	a1, a2, a3, a4, a5,a6,a7,b1, b2, b3, , and d4	fifteenth week	10 %
Written exam	a1, a2, a3, a4, a5,a6,a7,b1, b2, b3.	sixteenth week	80 %
Total			100 %

Members of examination committee: **Prof. Dr. Mervat**
Dr. Kamal. A. Soliman

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
	Head of the department	By the beginning of the

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.	and all course instructors	second semester of the academic year 2022-2023

Course coordinator: Dr. Mervat Asem
Dr. Kamal. A. Soliman

Program coordinator: Prof. Dr. Safinaz M. Reda

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

Date: 2022-2023

Annual Course Report
2021-2022

A- Basic Information		
1- Title and code:	Stereo and Photo-organic Chemistry (415Ch)	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	2021-2022 / B.Sc. (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. Eman Gad Elkareem
Prof. Dr. Mohamed Behalo
Course coordinator: Dr. Eman Gad Elkareem
Prof. Dr. Mohamed Behalo
External evaluator: None

B- Statistical Information

No. of students attending the course: **No.** 1 **100 %**
No. of students completing the course: **No.** 0 **0 %**
Results:

	No.	**%**
Passed	**0**	0
Failed	**1**	**100**

Grading of successful students:

	No.	**%**
Excellent	**0**	**0**
Very Good	**0**	**0**
Good	**0**	**0**
Pass	**0**	**0**

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 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, a5, a6, b3, b4.	Seventh week	5 %
Oral exam	a1, a3, a4, a5, a6, b1	fifteenth week	10 %
Written exam	a1, a2, a3, a5, a6, b1, b2, b4,.	sixteenth week	80 %
Total			100 %

Members of examination committee
Prof. Dr. Aly Abdel maboud Aly

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. Mohamed Behalo
Dr. Eman Gad El-Kareem
Program coordinator: Prof. Dr. Safinaz M. Reda

Head of the Department: Prof. Dr. Wagdy El-Dougdoug
Date: 2022-2023

Annual Course Report
2021-2022

A- Basic Information		
1- Title and code:	Heterocyclic organic Chemistry (412 Ch)	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	2021-2022 / B.Sc. (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:	
Course coordinator:	**Prof. Dr. Ali Abdelmaaboud** **Prof. Dr. Mohamed Sayed Behalo**
	Prof. Dr. Ali Abdelmaaboud
	Prof. Dr. Mohamed Sayed Behalo

External evaluator: None

B- Statistical Information

No. of students attending the course: **No.** 14 **100 %**
No. of students completing the course: **No.** 14 **100%**
Results:

	No.	**%**
Passed	**14**	100
Failed	**0**	**0**

Grading of successful students:

	No.	**%**
Excellent	**3**	**21.42**
Very Good	**5**	**35.71**
Good	**5**	**35.71**
Pass	**1**	**7.14**

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
1. Nomenclature of heterocyclic compounds	2	0	3
2. Synthesis, reactions and applications of three and four membered heterocycles	2	0	3
3. Synthesis, reactions and applications of five membered heterocycles (one heteroatom) part (1)	2	0	3
4. 3. Synthesis, reactions and applications of five membered heterocycles (one heteroatom) part (2)	2	0	3
5. Synthesis, reactions and applications of five membered heterocycles (more than one heteroatom) part (1)	2	0	3
6. 5. Synthesis, reactions and applications of five membered heterocycles (more than one heteroatom) part (2)	2	0	3
7. Mid-term exam	2	0	3
8. Synthesis, reactions and applications of six membered heterocycles (one heteroatom)	2	0	3
9. Synthesis, reactions and applications of fused five membered heterocycles	2	0	3
10. Synthesis, reactions and applications of six membered heterocycles (more than one heteroatom) part (1)	2	0	3
11. Synthesis, reactions and applications of six membered heterocycles (more than one heteroatom) part (2)	2	0	3
12. Nomenclature of fused heterocycles part (1)	2	0	3
13. Nomenclature of fused heterocycles part (2)	2	0	3
14. Revision	2	0	3
Total hours	28	0	42

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 b6	c1 to C4	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, b3, b4, c2, and d1	Fifth week	5 %
Mid-Term Exam	a1, a2, a3, a5, a6, b1, b6 d1, and d2	Seventh week	5 %
Oral exam	a1, a2, a3, a4, b1, b2, b4, b5 d3, and d4	Thirteenth week	10 %
Written exam	a1, a2, a3, a4, b1, b2, b3	Fourteenth week	80 %
Total			100 %

Members of examination committee: **Prof. Dr. Shafei Galal Donia**
Dr. Mohamed Sayed Behalo

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	Head of the department and all course instructors	By the beginning of the second semester of the

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.		academic year 2022-2023

Course coordinator: Prof. Dr. Ali Abdelmaaboud
Dr. Mohamed Sayed Behalo

Program coordinator: Prof. Dr. Safinaz M. Reda

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

Date: 2022-2023

Annual Course Report
2021-2022

A- Basic Information		
1- Title and code:	Advanced inorganic chemistry and chemical applications of group theory (422 Ch)	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	2021-2022 / B.Sc. (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. Mostafa Y. Nassar	
Dr. Sabry Hamed	
Course coordinator:	**Prof. Dr. Mostafa Y. Nassar**
Dr. Sabry Hamed	
External evaluator: None	

B- Statistical Information

No. of students attending the course: **No.** 250 **100 %**
No. of students completing the course: **No.** 247 **98.8%**
Results:

	No.	**%**
Passed	**243**	**97.2**
Failed	**7**	**2.8**

Grading of successful students:

	No.	**%**
Excellent	**101**	**40.89**
Very Good	**99**	**40.08**
Good	**37**	**14.97**
Pass	**6**	**2.429**

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
1. Introduction to group theory and its applications in Chemistry	2	0	0
2. Symmetry elements and symmetry operations	2	0	0
3. Determination of point group of a molecule	2	0	0
4. Group representation and character tables part 1	2	0	0
5. Group representation and character tables part 2	2	0	0
6. Reducible and irreducible representation	2	0	0
7. Mid-Term Exam.	2	0	0
8. Reducible and irreducible representation part (1)	2	0	0
9. Reducible and irreducible representation part (2)	2	0	0
10. Molecular vibrations part 1	2	0	0
11. Molecular vibrations part 2	2	0	0
12. Bonding and Molecular orbital theory part (1)	2	0	0
13. Bonding and Molecular orbital theory part (2)	2	0	0
14. Electronic transition	2	0	0
Total hours	**28**	0	**0**

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 a8	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: 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, d1,and d2	Fifth week	5 %
Mid-Term Exam	a1, a2, a3, a4, a5, a6, b1, b2, d1, and d2	Seventh week	5 %
Oral exam	a1, a2, a3, a4, a5, a6, a7, a8, b1, b2, b3, and d4	fifteenth week	10 %
Written exam	a1, a2, a3, a4, a5, a6, a7, a8, b1, b2, b3,	sixteenth week	80 %
Total			100 %

Members of examination committee: **Prof. Dr. Mostafa Y. Nassar**
Dr. Sabry Hamed

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. Mostafa Y. Nassar**

Dr. Sabry Hamed

Program coordinator: Prof. Dr. Safinaz M. Reda

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

Date: 2022-2023

Annual Course Report
2016-2017

A- Basic Information		
1- Title and code:	Materials Science (432 Ch)	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	2021-2022 / B.Sc. (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.Wafaa Abdalla
Prof.Dr. Eman Abdalla

Course coordinator: Prof. Dr.Wafaa Abdalla
Prof.Dr. Eman Abdalla

External evaluator: None

B- Statistical Information

No. of students attending the course: **No.** 266 **100 %**
No. of students completing the course: **No.** 263 **98.9 %**
Results:

	No.	%
Passed	**261**	**98.1**
Failed	**5**	**1.9**

Grading of successful students:

	No.	%
Excellent	**166**	**63.1**
Very Good	**75**	**28.5**
Good	**19**	**7.22**
Pass	**1**	**0.38**

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
1. Introduction to materials science tetrahedron.	2	0	2
2. Types of materials	2	0	2
3. Preparation methods of oxides	2	0	2
4. Preparation methods of ceramic materials	2	0	2
5. Properties of ceramic materials part (1)	2	0	2
6. Properties of ceramic materials part (2)	2	0	2
7. Mid-term exam	2	0	2
8. Electrical properties of different materials part (1)	2	0	2
9. Electrical properties of different materials part (2)	2	0	2
10. Mechanical properties of different materials	2	0	2
11. Optical properties of different materials part (1)	2	0	2
12. Optical properties of different materials part (2)	2	0	2
13. Magnetic properties of materials.	2	0	2
14. Different applications of materials.	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 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, 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: Prof. Dr.Wafaa Abdalla
Dr. Eman Abdalla

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.Wafaa Abdalla Prof. Dr. Eman Abdalla
Program coordinator:	Prof. Dr. Safinaz Mohamed Reda
Head of the Department:	Prof. Dr. Wagdy El-Dougdog
Date:	2022/ 2023

Annual Course Report
2021-2022

A- Basic Information		
1- Title and code:	Advanced Analytical Chemistry (440 Ch)	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	2021-2022 / B.Sc. (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 . Aymn Awad
	Dr. Islam Moustafa
Course coordinator:	Dr. Hesham El-Feky Dr . Aymn Awad
	Dr. Islam Moustafa
	Dr. Hesham El-Feky

B- Statistical Information

No. of students attending the course: **No.** 254 **100 %**
No. of students completing the course: **No.** 252 **99.2 %**
Results:

	No.	**%**
Passed	**239**	**94.1**
Failed	**15**	**5.9**

Grading of successful students:

	No.	**%**
Excellent	2	**0.79**
Very Good	**70**	**27.77**
Good	**132**	**52.38**
Pass	**35**	**13.88**

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
1. Introduction to chromatography and overview on analytical separations and general theory of column chromatography.	2	0	0
2. Classifications of chromatographic methods	2	0	0
3. Instrumentation of Gas chromatography	2	0	0
4. Detectors of Gas chromatography such as TCD, FID and ECD	2	0	0
5. Qualitative, quantitative applications and evaluations of Gas chromatography.	2	0	0
6. Instrumentation of HPLC	2	0	0
7. Mid-term exam	2	0	0
8. Qualitative, quantitative applications and evaluations of HPLC.	2	0	0
9. Introduction to the theory of capillary electrophoresis	2	0	0
10. Instrumentation, application and evaluation of electrophoresis	2	0	0
11. Introduction to Photoluminescence Spectroscopy (Fluorescence and Phosphorescence Spectra)	2	0	0
12. Instrumentation, application and evaluation of Photoluminescence Spectroscopy (Fluorescence and Phosphorescence Spectra)	2	0	0
13. Introduction to polarography (Theory, Types and Instrumentation)	**2**	0	**0**
14. Applications and evaluations of polarography.	**2**	0	**0**
Total hours	**28**	0	**0**

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: 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 and d1	Fifth week	5 %
Mid-Term Exam	a1, a2, a3, a4, b3, d1, and d2	Seventh week	5 %
Oral exam	a1, a2, a3, a4, a5, 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 Sayed Abdelaziz
	Dr. Naglaa Mashal
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
	Head of the department	By the beginning of the

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.	and all course instructors	second semester of the academic year 2022-2023

Course coordinator: Dr . Aymn Awad

Dr. Islam Moustafa
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
2021-2022

A- Basic Information		
1- Title and code:	Industrial Detergents chemistry (414 Ch)	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	2021-2022 / B.Sc. (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. Mohammed Hussien
Dr. Ahmed Tantawy

Course coordinator:
Prof. Dr. Mohammed Hussien
Dr. Ahmed Tantawy

External evaluator: None

B- Statistical Information

No. of students attending the course: **No.** 23 **100 %**
No. of students completing the course: **No.** 22 **95.7 %**
Results:

	No.	%
Passed	**18**	78.3
Failed	**5**	**21.7**

Grading of successful students:

	No.	%
Excellent	**11**	**50**
Very Good	**1**	**4.5**
Good	**6**	**27.27**
Pass	**0**	**0**

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
1. Introduction.	2	0	3
2. Anionic Surfactants.	2	0	3
3. Cationic Surfactants.	2	0	3
4. Amphotenic Surfactants.	2	0	3
5. Gimini Surfactants.	2	0	3
6. Nonionic Surfactants.	2	0	3
7. Mid-Term Exam.	2	0	3
8. Surface Active properties.	2	0	3
9. Relationship between properties and chemical structure.	2	0	3
10. (HLB) Hydrophilic lypophilic balance, (CMC) critical micille concentration.	2	0	3
11. Industrial applications of surfactant.	2	0	3
12. Biodegradability	2	0	3
13. Green natural surfactant.	2	0	3
14. Revision.	2	0	3
Total hours	**28**	0	**42**

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 b3**	**c1 to C3**	**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 and d1	Seventh week	5 %
Oral exam	a1, a2, a3, a4, b1, b2, b3	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. Ahmed Tantawy

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. Ahmed Tantawy

Program coordinator: Prof. Dr. Safinaz M. Reda

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

Date: 2022-2023

Annual Course Report
2021-2022

A- Basic Information		
1- Title and code:	Chemistry of technology of paints (416 Ch)	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	2021-2022 / B.Sc. (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. Mohamed Abo Riya

Dr. Aml Mohammed

Course coordinator: **Dr. Mohamed Abo Riya**

Dr. Aml Mohammed

External evaluator: None

B- Statistical Information

No. of students attending the course: **No.** 14 **100 %**

No. of students completing the course: **No.** 14 **100%**

Results:

	No.	%
Passed	**14**	100
Failed	**0**	**0**

Grading of successful students:

	No.	%
Excellent	**9**	**64.2**
Very Good	**5**	**35.7**
Good	**0**	**0**
Pass	**0**	**0**

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
1. Introduction to paint industerial chemistry.	2	0	3
2. The chemical composition composition of paints.	2	0	3
3. Binders and resins.	2	0	3
4. Binders and resins.	2	0	3
5. Plasticizers.	2	0	3
6. Paint Pigments.	2	0	3
7. Mid-term exam	2	0	3
8. Paint Additives.	2	0	3
9. Paint Additives and testing of additives.	2	0	3
10. Paint formulation.	2	0	3
11. Drying and film formation.	2	0	3
12. Paint systems.	2	0	3
13. Properties and paint testing.	2	0	3
14. Paint application and causes for paint failure.	2	0	3
Total hours	**28**	0	**42**

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 b5**	**c1 to C4**	**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, c1 and d1	Fifth week	5 %
Mid-Term Exam	a1, a2, a3, b2, , d1, and d2	Seventh week	5 %
Oral exam	a1, a2, a3, a4, a5, b1, b2, b3, b4, b5, 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. Mohamed Abo Riya**
Dr. Aml Mohammed

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: Dr. Mohamed Abo Riya
Dr. Aml Mohammed

Program coordinator: Prof. Dr. Safinaz M. Reda

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

Date: 2022-2023

Annual Course Report
2021-2022

A- Basic Information		
1- Title and code:	Research and Essay (400 Ch)	
2- Program(s) on which this course is given:	Special Chemistry B.Sc. Program	
3- Year/Level of program:	2021-2022 / B.Sc. (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:
Stuff Of Chemistry Department

Course coordinator: Stuff Of Chemistry Department

External evaluator: None

B- Statistical Information

No. of students attending the course: **No.** 124 **100 %**
No. of students completing the course: **No.** 124 **100 %**
Results:

	No.	**%**
Passed	**124**	100
Failed	**0**	**0**

Grading of successful students:

	No.	**%**
Excellent	**124**	100
Very Good	**0**	0
Good	**0**	**0**
Pass	**0**	**0**

C- Professional Information

1 – Course teaching

Topic	Lecture hours	Tutorial hours	Practical hours
1. Ethics of scientific writing.	2	0	0
2. How to research and get a scientific article.	2	0	0
3. Parts of the essay?	2	0	0
4. How to write an abstract?	2	0	0
5. How to write an introduction?	2	0	0
6. How to write an experimental section?	2	0	0
7. Mid-Term Exam.	2	0	0
8. How to write the results?	2	0	0
9. How to write the discussion?	2	0	0
10. How to write references?	2	0	0
11. Writing an essay part1	2	0	0
12. Writing an essay part2.	2	0	0
13. Reviewing the written essay.	2	0	0
14. Oral exam-Presenting the written essay	2	0	0
Total hours	**28**	0	**0**

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 a4	b1 to b4	c1 to C2	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, b1, b3 and d1	Fifth week	5 %
Mid-Term Exam	a1, a2, a3, a4, b1, b2, d1, and d2	Seventh week	5 %
Oral exam	a1, a2, a3, a4, b1, b2, b3, , and d2	fifteenth week	10 %
Written exam	a1, a2, a3, a4, b1, b2, b3,	sixteenth week	80 %
Total			100 %

Members of examination committee: Stuff Of Chemistry Department

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: Stuff Of Chemistry Department
Program coordinator: Prof. Dr. Safinaz M. Reda

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

Date / 2022-2023