



قسم الهندسة الكيميائية  
Department of Chemical Engineering



وزارة التعليم العالي  
المعهد العالي للهندسة والتكنولوجيا  
بدمياط الجديدة

## تقارير المقررات قسم الهندسة الكيميائية

إعتماد مجلس القسم لتقارير المقررات قسم الهندسة  
الكيميائية

بتاريخ 2022/7/18

إعتماد المجلس العلمي لتقارير المقررات قسم الهندسة  
الكيميائية

بتاريخ 2022/7/25




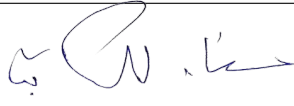



وزارة التعليم العالي  
المعهد العالي للهندسة والتكنولوجيا  
بدمياط الجديدة

2021- 2022

## تقارير المقررات لقسم الهندسة الكيميائية



Head of the department	Quality Assurance Unit Manager	Dean of the institute
		
Assoc.Prof.Dr./ Henda Elsayed Gadow	Assoc.Prof.Dr./ Ramadan Abdelghany Elkateb	Prof.Dr./ Osami Elsaeed Rageh



## الفرقة الاعدادي



## Annual Course Report: Mathematics 1 (BAS011)

### A. Basic Information

Program Title	All programs
Department offering the Program	Basic Science and Engineering Department
Department Responsible for the Course	Basic Science and Engineering Department
Course Code	BAS011
Year/ Level	Level zero
Specialization	Major
Authorization date of course report	2/2022
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching hours	Lectures	Exercise	laboratory	Student's load
	2	2	-	4

### B. Specialized information:

#### 1. Statistics

Subject		Percentage
Students attending the course		100%
Students completing the course		100%
Results	Passed	71.7%
	Failed	28.3%
Grading of successful students	Excellent	19.4%
	Very Good	10.8%
	Good	14%
	Pass	27.5%

#### 2. Course Teaching:

No.	Topics	Lecture	Exercise	laboratory	Student load
1	vectors algebra - partial fractions - equations theory	2	2	-	8
2	vectors - mathematical induction	2	2	-	4
3	Equations theory –Mathematical Deduction	4	4	-	8





## Annual Course Report:

### Mathematics 1 (BAS011)

4	numerical solutions methods (simple repetitive method - Newton and modified Newton's method - intersection method - False position method)	4	4	-	8
5	□ Arrays - linear equations systems - Gauss Jordan method for deletion.	4	4	-	8
6	function (definition - theories) - basic trigonometric functions and its inverse - exponential and logarithmic functions	4	4	-	8
7	hyperbolic functions and its inverse - connection (definition - theories) - limits (definition - theories) - derivatives (definition - theories - higher order types)	4	4	-	8
8	- curves drawing - mathematical and engineering derivative applications - undefined formulas - Taylor expansion - MacLean expansion - approximation - introduction in partial derivation.	4	4	-	4
<b>Total</b>		<b>28</b>	<b>28</b>	<b>-</b>	<b>56</b>

- Topics taught as a percentage of the content specified: 100 %
- Lecturers commitment of the course content: 95%
- Coverage of exam topics to course content: 90 %
- Used Teaching and Learning Methods

No.	Teaching Method	Choice
1	Lectures	√
2	Discussion Sessions	√
3	Information Collection from Different Sources	√
4	Practical	√
5	Research Assignment	x
6	Field Visits	×
7	Case Studies	x
8	Smart Sessions	×



## Annual Course Report: Mathematics 1 (BAS011)

### - Student Assessment:

No.	Evaluation Method	Marks
1	Periodic exams	30
2	Student load	30
3	Final term examination	90
Total		150

### 3. Facilities Required for Teaching and Learning:

No.	Facility	Choice	No.	Facility	Choice
1	Lecture Classroom	√	7	Wireless Board	×
3	White Board	√	9	Sound System	√
4	Data Show System	√	10	Wire-Internet	x
5	Visualizer	×	11	Wireless Internet	√
6	Smart Board	×	12	...	×

### 4- Administrative Constraints:

No.	Constraints
1	None

### 5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	88.69%

### 6- Course enhancement suggestions

No.	Suggestions
1	Adding new applications and practical examples

### 7- Comments from external evaluator(s) (if exists):

No.	Comments
1	-

### 8- What has been implemented of the student's suggestions in the previous year?

No.	Suggestions
1	Using online course material

### 9- What has not been implemented of the suggestions (give reasons)?

No.	Suggestions	Reasons
1	-	



## Annual Course Report:

### Mathematics 1 (BAS011)

#### 10- What has been implemented from the action plan in the previous year?

No.	Areas of development	Description of development	Completion date	Person responsible
1	Add online materials of course	Add course materials to moodle	2021-2022	Dr. Reda Abdo

#### 11- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	-Increase Case studies implementation according to social's needed	Added case studies related to course specification	2022-2023	Dr. Reda Abdo

Course Coordinator: Dr. Reda Abdo

Head of Department: Assoc. prof. Amal Behairy

Date of Approval: 2/2022

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## Annual Course Report: Mechanics 1(BAS012)

### A. Basic Information

Program Title	All programs
Department offering the Program	Basic Science and Engineering Department
Department Responsible for the Course	Basic Science and Engineering Department
Course Code	BAS012
Year/ Level	Level zero
Specialization	Major
Authorization date of course report	2/2022
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching hours	Lectures	Exercise	laboratory	Student's load
	2	2	-	4

### B. Specialized information:

#### 1. Statistics

Subject		No.	Percentage
Students attending the course		459	100%
Students completing the course		459	100%
Results	Passed	375	81.7%
	Failed	84	18.3%
Grading of successful students	Excellent	51	11.1%
	Very Good	81	17.6%
	Good	56	12.2%
	Pass	187	40.7%



## Annual Course Report: Mechanics 1(BAS012)

### 2. Course Teaching:

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Introduction to statics. Fundamental concept Basic quantities of unit dimension- System of units Space, Trigonometry and U.S. Customary units, Force. Statics of particle, Statics of Rigid Body, Free body diagrams. Types of forces, Types of system of forces	2	2	-	4
2	Statics of particles Forces on a particle, Addition of vectors, Resultant of several concurrent forces.	2	2	-	4
3	Resolution of a forces into components Rectangular components of a forces, (unit vectors). Addition of forces by summing X and Y components. Equilibrium of a particle, and Newton's first law of motion.	2	2	-	4
4	Problem involving the equilibrium of a practice- free body diagram. Rectangular components of a forces in space, force defined by its magnitude and two points on its line of action. Addition of concurrent forces in space, equilibrium of a particle in space.	2	2	-	4
5	Rigid bodies: equivalent systems of forces. External and internal forces, principle of transmissibility and equivalent forces, vector product of two vectors, vector product expressed in terms of rectangular components	2	2	-	4
6	Moment of a force about a point. Varignon's theorem, rectangular components of the moment of a force, equivalent systems of forces.	4	4	-	4
7	Equilibrium of rigid bodies Free-body diagram. Equilibrium of a rigid body in two dimensions.	2	2	-	4



## Annual Course Report: Mechanics 1(BAS012)

8	Equilibrium of three- dimension force body. Reduction of a system of forces to one force and one couple. Equilibrium of a rigid body in three dimensions. Reactions at supports and connections for a two- dimensional and for a three- dimensional structure.	4	4	-	4
9	Centroids and centers of gravity. Centre of gravity of a two- dimensional body, centroids of area and lines, first moments of areas and lines, composite plates and wires.	4	4	-	4
10	Analysis of structures Definition of truss Simple trusses Analysis of trusses by the method of joints	4	4	-	4
Total		28	28	-	56

- Topics taught as a percentage of the content specified: 100%
- Lecturers commitment of the course content 96 %
- Coverage of exam topics to course content: 90%
- Used Teaching and Learning Methods

No.	Teaching Methods
1	Lectures
2	Discussion sessions
3	Information collection from different sources
4	Research assignment

### - Student Assessment:

No.	Evaluation Method	Marks
1	Periodic exams	20
2	Student load	20
3	Final term examination	60
Total		100



## Annual Course Report: Mechanics 1(BAS012)

### 3. Facilities Required for Teaching and Learning:

No.	Facility
1	Lecture classroom
2	Presenter
3	White board
4	Data show system
5	Wireless internet
6	Sound system

### 4- Administrative Constraints:

No.	Constraints
1	None

### 5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	88.96%

### 6- Course enhancement suggestions

No.	Suggestions
1	Introducing recent topics to the course on a permanent and continuous basis

### 7- Comments from external evaluator(s) (if exists):

No.	Comments
1	-

### 8- What has been implemented of the student's suggestions in the previous year?

No.	Suggestions
1	Using online course material.

### 9- What has not been implemented of the suggestions (give reasons)?

No.	Suggestions	Reasons
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**Annual Course Report:**  
**Mechanics 1(BAS012)**

1	None	None
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**10- What has been implemented from the action plan in the previous year?**

No.	Areas of development	Description of development	Completion date	Person responsible
1	Add online material related to course	Add topics material to Moodle	2021-2022	Staff

**11- Action plan for next academic year**

No.	Areas of development	Description of development	Completion date	Person responsible
1	Update content of topics	Add recent topics to the course	2022-2023	staff

**Course Coordinator: Dr. Moataz Mostafa**

**Head of Department: Assoc. Prof. Dr. Amal Behiry**

**Date of Approval: 2/2022**





## Annual Course Report: Physics 1(BAS 013)

### A. Basic Information

<b>Program Title</b>	All programs
<b>Department offering the Program</b>	Basic Science and Engineering Department
<b>Department Responsible for the Course</b>	Basic Science and Engineering Department
<b>Course Code</b>	BAS 013
<b>Year/ Level</b>	Level 0
<b>Specialization</b>	major
<b>Authorization date of course report</b>	2/2022
<b>Exam Committee Selection Rule</b>	Commissioning of the Institute of Management
<b>External Revision of Examination</b>	--
<b>Lecturers Number:</b>	2

Teaching hours	Lectures	Exercise	laboratory	Student's load
	2	2	2	4

### B. Specialized information:

#### 1. Statistics

Subject	No.	Percentage
Students attending the course	475	100%
Students completing the course	408	100%
Results	Passed	328
	Failed	147
Grading of successful students	Excellent	37
	Very Good	46
	Good	58
	Pass	187

#### 2. Course Teaching:

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Physics and Measurement Practical: measurement methods	4	4	2	8
2	Mechanical properties for materials Practical: Hooks' Law	4	4	2	8
3	Oscillations Practical: simple pendulum.	4	4	2	8
4	Sounds. Practical: Resonance in the Air columns.	2	2	4	4



## Annual Course Report: Physics 1(BAS 013)

5	Fluids. Practical: Viscosity.	4	4	4	8
6	Heat transfer Practical: Heat& Specific Heat& thermoelectrical equivalent& the latent heat of melting ice.	2	2	6	4
7	The kinetic theory of gases and the work in thermodynamics Practical: melting point of solid materials.	2	2	4	4
8	The laws of thermodynamic Practical: heating and cooling curves.	4	4	2	8
9	Temperature and thermal expansion Practical: coefficient of linear thermal expansion.	2	2	2	4
<b>Total</b>		<b>28</b>	<b>28</b>	<b>28</b>	<b>56</b>

- Topics taught as a percentage of the content specified: 100%
- Lecturers commitment of the course content: 93 %
- Coverage of exam topics to course content: 90 %
- Used Teaching and Learning Methods

No.	Teaching Method	Choice
1	Lectures	√
2	Discussion Sessions	√
3	Information Collection from Different Sources	√
4	Practical	√
5	Research Assignment	√
6	Field Visits	×
7	Case Studies	×
8	Smart Sessions	×



## Annual Course Report: Physics 1(BAS 013)

### -Student Assessment:

No.	Evaluation method	Marks
1	Periodic exams	30
2	final examination	75
3	Practical examination	15
4	Student load	30
<b>Total</b>		<b>150</b>

### 3. Facilities Required for Teaching and Learning:

No.	Facility	Choice	No.	Facility	Choice
1	Lecture Classroom	√	7	Wireless Board	×
2	Lab Facilities	√	8	Presenter	×
3	White Board	√	9	Sound System	√
4	Data Show System	√	10	Wire-Internet	x
5	Visualizer	×	11	Wireless Internet	√
6	Smart Board	×	12	...	×

### 4- Administrative Constraints:

No.	Constraints
1	-

### 5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	87.46%

### 6- Course enhancement suggestions

No.	Suggestions
1	Increase some of scientific reference in the library of the institute

### 7- Comments from external evaluator(s) (if exists):

No.	Comments
1	-

### 8- What has been implemented of the student's suggestions in the previous year?

No.	Suggestions
1	Using online course material.



**Annual Course Report:**  
**Physics 1(BAS 013)**

**9- What has not been implemented of the suggestions (give reasons)?**

No.	Suggestions	Reasons
1	-	

**10- What has been implemented from the action plan in the previous year?**

No.	Areas of development	Description of development	Completion date	Person responsible
1	Add online course material to student	-add course notes , assignments and Quizzes on moodle	2021-2022	Dr. Amal Behairy

**11- Action plan for next academic year**

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some of scientific reference In the library of the institute	Add more physics books in the electronic library of the institute	2022-2023	Dr. Amal Behairy

**Course Coordinator: Assoc.Prof. Amal Behairy**  
**Dr. Ahmed Lotfy**

**Head of Department: Assoc.Prof. Amal Behairy**

**Date of Approval: 2/2022**



## Annual Course Report:

### Engineering Chemistry (BAS 014)

#### A. Basic Information

Program Title	All programs
Department offering the Program	Basic Science and Engineering Department
Department Responsible for the Course	Basic Science and Engineering Department
Course Code	BAS 014
Year/ Level	Level zero
Specialization	major
Authorization date of course report	2/2022
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching hours	Lectures	Exercise	laboratory	Student's load
	2	-	2	4

#### B. Specialized information:

##### 1. Statistics

Subject		No.	Percentage
Students attending the course		426	100%
Students completing the course		426	100%
Results	Passed	350	82.16%
	Failed	76	17.84%
Grading of successful students	Excellent	68	16%
	Very Good	60	14.1%
	Good	73	17.1%
	Pass	149	35



## Annual Course Report:

### Engineering Chemistry (BAS 014)

#### 2. Course Teaching:

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Gaseous status. Practical: Chemistry Laboratory Equipment, Titrimetric Analysis.	4	-	4	8
2	Chemical thermodynamics. Practical: Preparation of standard solution of $\text{Na}_2\text{CO}_3$ (0.1N), Determination of normality of Hcl by using standard solution of oxalic acid.	4	-	4	8
3	Properties of solutions. Practical: Determination of normality of acetic acid by using standard solution of sodium hydroxide, Determination of normality of sodium carbonate by using standard solution of Hcl.	4	-	4	8
4	Material balance in combustion processes. Practical: Standardization of potassium permanganate with oxalic acid.	2	-	2	4
5	Dynamic balance in physical and chemical operations. Practical: Determination of nitrites, precipitation titrations.	4	-	4	8
6	Kinetic chemical interactions. Practical: Preparation of 0.05N of sodium chloride.	2	-	2	4
7	Electrochemistry, corrosion and corrosion control. Practical: Determination of chloride ion by using Mohr method.	2	-	2	4
8	Fertilizers. Practical: Determining Molecule Weight by Freezing Point Depression Method.	2	-	2	4
9	Manufacturing and chemistry of Cement. Practical: Determining Molecule Weight by Freezing Point Depression Method.	2	-	2	4





## Annual Course Report:

### Engineering Chemistry (BAS 014)

10	Water processes. Practical: determination of water hardness by complex metric titration.	2	-	2	4
<b>Total</b>		<b>28</b>	<b>-</b>	<b>28</b>	<b>56</b>

- Topics taught as a percentage of the content specified: 90 %
- Lecturers commitment of the course content: 100 %
- Coverage of exam topics to course content: 90 %
- Used Teaching and Learning Methods

No.	Teaching Method	Choice
1	Lectures	√
2	Discussion Sessions	×
3	Information Collection from Different Sources	√
4	Practical	√
5	Research Assignment	x
6	Field Visits	×
7	Case Studies	x
8	Smart Sessions	×

#### - Student Assessment:

No.	Evaluation Method	Marks
1	Periodic exams	25
2	Student load	25
3	Practical Examination	15
4	Final term examination	60
<b>Total</b>		<b>125</b>

#### 3. Facilities Required for Teaching and Learning:

No.	Facility	Choice	No.	Facility	Choice
1	Lecture Classroom	√	7	Wireless Board	×
2	Lab Facilities	√	8	Presenter	×
3	White Board	√	9	Sound System	√
4	Data Show System	√	10	Wire-Internet	x
5	Visualizer	×	11	Wireless Internet	√
6	Smart Board	×	12	...	×



## Annual Course Report: Engineering Chemistry (BAS 014)

### 4- Administrative Constraints:

No.	Constraints
1	-

### 5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	90.36%

### 6- Course enhancement suggestions

No.	Suggestions
1	Make all lectures available as videos and pdf
2	More interact with student through MOODEL

### 7- Comments from external evaluator(s) (if exists):

No.	Comments
1	-

### 8- What has been implemented of the student's suggestions in the previous year?

No.	Suggestions
1	Increasing questions present in the MOODEL

### 9- What has not been implemented of the suggestions (give reasons)?

No.	Suggestions	Reasons
1		-----

### 10- What has been implemented from the action plan in the previous year?

No.	Areas of development	Description of development	Completion date	Person responsible
1	Self learning	Enhance searching	2021-2022	Dr Khaled Samir and information systems unit

### 11. Action plan for the next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increasing problems	Quiz and sheets on Model with electronic corrections	2022-2023	Dr Khaled Samir and information systems unit

Course Coordinator: Associate prof. Khaled Samir  
Head of Department: Associate prof. Aml El-Behiry  
Date of Approval: 2/2022





## Annual Course Report:

### Engineering Drawing and Projection (BAS015)

#### A. Basic Information

<b>Program Title</b>	All programs
<b>Department offering the Program</b>	Basic Science and Engineering Department
<b>Department Responsible for the Course</b>	Basic Science and Engineering Department
<b>Course Code</b>	BAS 015
<b>Year/ Level</b>	Level zero
<b>Specialization</b>	Major
<b>Authorization date of course report</b>	2/2022
<b>Exam Committee Selection Rule</b>	Commissioning of the Institute of Management
<b>External Revision of Examination</b>	--
<b>Lecturers Number:</b>	1

Teaching hours	Lectures	Exercise	laboratory	Student's load
	1	-	4	4

#### B. Specialized information:

##### 1. Statistics

Subject		No.	Percentage
Students attending the course		400	100%
Students completing the course		389	97.25%
Results	Passed	336	84%
	Failed	64	16%
Grading of successful students	Excellent	57	17%
	Very Good	84	25%
	Good	66	19.6%
	Pass	129	38.4%



## Annual Course Report:

### Engineering Drawing and Projection (BAS015)

#### 2. Course Teaching:

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Techniques and skills of engineering drawing	1	-	4	4
2	Engineering operations	1	-	4	4
3	Orthogonal projection – Secondary orthogonal	2	-	8	8
4	Intersections	1	-	4	4
5	projections of simple bodies	1	-	4	4
6	rules of writing dimensions	1	-	4	4
7	Deduction of missing projections	1	-	4	4
8	Drawing of engineering sections.	1	-	4	4
9	Steel frames	2	-	8	8
10	Introduction to AutoCAD Fundamentals of engineering drafting by way of computer aided drawing (CAD) software. Basic features and capabilities of CAD software and drafting fundamentals including orthographic projection, and isometric pictorials, part dimensioning in 2 dimensional drawings.	3	-	12	12
<b>Total</b>		<b>14</b>		<b>56</b>	<b>56</b>

- Topics taught as a percentage of the content specified: 100%
- Lecturers commitment of the course content 95%
- Coverage of exam topics to course content: 90%

#### - Used Teaching and Learning Methods

No.	Teaching Methods
1	Lectures
2	Discussion sessions
3	Information collection from different sources
4	Research assignment



## Annual Course Report: Engineering Drawing and Projection (BAS015)

### - Student Assessment:

No.	Evaluation Method	Marks
1	Periodic exams	25
2	Student load	25
3	Final-term examination	75
<b>Total</b>		<b>125</b>

### 3. Facilities Required for Teaching and Learning:

No.	Facility
1	Lecture classroom
2	Presenter
3	White board
4	Data show system
5	Wireless internet
6	Sound system

### 4- Administrative Constraints:

No.	Constraints
1	-

### 5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	90.41%



## Annual Course Report:

### Engineering Drawing and Projection (BAS015)

#### 6- Course enhancement suggestions

No.	Suggestions
1	Adding new applications and practical examples

#### 7- Comments from external evaluator(s) (if exists):

No.	Comments
1	-

#### 8- What has been implemented of the student's suggestions in the previous year?

No.	Suggestions
1	Converting course from traditional course to particular online course

#### 9- What has not been implemented of the suggestions (give reasons)?

No.	Suggestions	Reasons
1	-	-

#### 10- What has been implemented from the action plan in the previous year?

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase number of AutoCAD drawings	Increase AutoCAD exercises	2021-2022	Dr. Moataz Mostafa

#### Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increasing more Exercises	Increasing Exercises, quizzes, and assignments in the next year	2022-2023	Dr. Moataz Mostafa

Course Coordinator: Dr. Moataz Mostafa

Head of Department: Assoc. Prof. Aml Behairy

Date of Approval: 3/2022



## Annual Course Report: Introductions to Computer Systems( BAS 016)

### A. Basic Information

<b>Program Title</b>	All programs
<b>Department offering the Program</b>	Basic Science and Engineering Department
<b>Department Responsible for the Course</b>	Basic Science and Engineering Department
<b>Course Code</b>	BAS 016
<b>Year/ Level</b>	Level zero
<b>Specialization</b>	major
<b>Authorization date of course report</b>	3/2022
<b>Exam Committee Selection Rule</b>	Commissioning of the Institute of Management
<b>External Revision of Examination</b>	--
<b>Lecturers Number:</b>	1

Teaching hours	Lectures	Exercise	laboratory	Student's load
	2	-	2	4

### B. Specialized information:

#### 1. Statistics

Subject		No.	Percentage
Students attending the course		357	100%
Students completing the course		322	93.3%
Results	Passed	241	77.8%
	Failed	81	25.2%
Grading of successful students	Excellent	28	8.7%
	Very Good	65	20.2%
	Good	72	22.4%
	Pass	76	23.6%

#### 2. Course Teaching:

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Computer architecture. practical: Visual Studio C# Interface	2	-	2	4
	Writing simple statements				
2	Computer systems Practical: Variables, Data type	4	-	4	8
3	Files systems Practical: Input & Output	2	-	2	4
4	Computer networks Practical: Conditional Statements	4	-	4	8



Annual Course Report:  
Introductions to Computer Systems( BAS 016)

5	Internet networks Practical: Arrays	4	-	4	8
6	Data systems and information technology Practical: Loop Statement (For, while & do -while)	4	-	4	8
7	Computer graphics – Multimedia systems Practical: Loop Statement (For, while & do -while)	2	-	2	4
8	Methods of solving problems and logical design for the programs and matrices. Practical: Nested loop	4	-	4	8
9	Engineering applications in programming using one structured programming language. Practical: Engineering Case Study.	2	-	2	4
<b>Total</b>		<b>28</b>		<b>28</b>	<b>56</b>

- Topics taught as a percentage of the content specified: 95 %
- Lecturers commitment of the course content: 98 %
- Coverage of exam topics to course content: 95%



Annual Course Report:  
Introductions to Computer Systems( BAS 016)

**-Used Teaching and Learning Methods**

No.	Teaching Methods
1	Lectures
2	Discussion sessions
3	Practical part
4	Information collection from different sources
5	Research assignment
6	Practical training/lab

**- Student Assessment:**

No.	Evaluation Method	Marks
1	Periodic exams	20
2	final examination	50
3	Practical examination	10
4	Student load	20
<b>Total</b>		<b>100</b>

**3 -Facilities Required for Teaching and Learning:**

No.	Facility
1	Lecture classroom
2	Computer lab
3	Presenter
4	White board
5	Data show system
6	Wireless internet
7	Sound system



Annual Course Report:  
Introductions to Computer Systems( BAS 016)

4- Administrative Constraints:

No.	Constraints
1	-

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	90.36%

6-Course enhancement suggestions

No.	Suggestions
1	Increase some of scientific reference in the library of the institute

7-Comments from external evaluator(s) (if exists):

No.	Comments
1	-----

8- What has been implemented of the student's suggestions in the previous year?

No.	Suggestions
1	Increase some of scientific reference in the library of the institute

9- What has not been implemented of the suggestions (give reasons)?

No.	Suggestions	Reasons
1	-----	

10- What has been implemented from the action plan in the previous year?

No.	Areas of development	Description of development	Completion date	Person responsible
1	Establish an effective electronic lesson..	E-learning makes the discussion open on the topics presented, as there is no fear or tension, as their opinions are sent via electronic technology.	2021-2022	Staff

11- Action plan for next academic year





Annual Course Report:  
Introductions to Computer Systems( BAS 016)

No.	Areas of development	Description of development	Completion date	Person responsible
1	Using computer programs to develop students' applied skills s	Preparing various activities that are compatible with students' inclinations and capabilities using computer programs	2022-2023	Dr. Ahmed Kabeel

Course Coordinator: Dr. Ahmed Kabeel

Head of Department: Dr. Khaled Samir

Date of Approval: 3/ 2022



## Annual Course Report: Mathematics 2(BAS021)

### A. Basic Information:

Program Title	All programs
Department offering the Program	Basic Science and Engineering Department
Department Responsible for the Course	Basic Science and Engineering Department
Course Code	BAS 021
Year/ Level	Level zero
Specialization	major
Authorization date of course report	7/2022
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching hours	Lectures	Exercise	laboratory	Student's load
	2	2	-	4

### B. Specialized information:

#### 1. Statistics

Subject		No.	Percentage
Students attending the course		408	100%
Students completing the course		408	100%
Results	Passed	309	75.74%
	Failed	99	24.26%
Grading of successful students	Excellent	101	24.80%
	Very Good	56	13.70%
	Good	30	7.40%
	Pass	122	29.90%

#### 2. Course Teaching:

No.	Topics	Lecture	Exercise	laboratory	Student load
1	equations of second degree and double equation for two straight lines - movement and rotation of axes - groups of unified axes circles	4	4	-	8
2	conical sectors (properties of conical sectors - parabola - ellipse - hyperbola)	6	6	-	12



## Annual Course Report:

### Mathematics 2(BAS021)

3	analytical geometry in space - Cartesian coordinates - cylindrical - spherical	2	2	-	4
4	Plane in space - equations of surfaces in second order - rotation and movement of axes in space.	2	2	-	4
5	indefinite integration (basic functions - theories) - method of integration (direct - indirect)	6	6	-	12
6	- definite integration (definition - properties - theories) -	4	4	-	8
7	applications of definite integration (plain areas - circular volumes - plain technical length)	2	2	-	4
8	Areas - circular surfaces - numerical integration.	2	2	-	4
<b>Total</b>		<b>28</b>	<b>28</b>	<b>-</b>	<b>56</b>

- Topics taught as a percentage of the content specified: 95%
- Lecturers commitment of the course content: 95 %
- Coverage of exam topics to course content: 90 %
- Used Teaching and Learning Methods

No.	Teaching Method	Choice
1	Lectures	√
2	Discussion Sessions	×
3	Information Collection from Different Sources	√
4	Practical	
5	Research Assignment	x
6	Field Visits	×
7	Case Studies	x
8	Smart Sessions	×
9	...	×



## Annual Course Report: Mathematics 2(BAS021)

### - Student Assessment:

No.	Evaluation Method	Marks
1	Periodic exams	30
2	Student load	30
3	Final term examination	90
<b>Total</b>		<b>150</b>

### 3. Facilities Required for Teaching and Learning:

No.	Facility	Choice	No.	Facility	Choice
1	Lecture Classroom	√	7	Wireless Board	×
2	Lab Facilities	√	8	Presenter	×
3	White Board	√	9	Sound System	√
4	Data Show System	√	10	Wire-Internet	x
5	Visualizer	×	11	Wireless Internet	√
6	Smart Board	×	12	...	×

### 4- Administrative Constraints:

No.	Constraints
1	-

### 5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	91.52%

### 6- Course enhancement suggestions

No.	Suggestions
1	Integrating work experiences with education

### 7- Comments from external evaluator(s) (if exists):

No.	Comments
1	-----

### 8- What has been implemented of the student's suggestions in the previous year?

No.	Suggestions
1	Using online course material



## Annual Course Report:

### Mathematics 2(BAS021)

#### 9- What has not been implemented of the suggestions (give reasons)?

No.	Suggestions	Reasons
1	More Exercises in the lecture	The Tutorials more than enough to cover exercises

#### 10- What has been implemented from the action plan in the previous year?

No.	Areas of development	Description of development	Completion date	Person responsible
1	Add online course material to student	-add course notes , assignments and Quizzes on moodle	2021-2022	Dr. Reda Abdo

#### 11- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some of scientific reference In the library of the institute	Add more text books in the electronic library of the institute	2022-2023	Dr. Reda Abdo

**Course Coordinator:** Dr. Reda Abdo

**Head of Department:** Assoc. prof. Amal Behairy

**Date of Approval:** 7/2022

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## Annual course Report

### Mechanics 2 (BAS022)

#### A. Basic Information

Program Title	All programs
Department offering the Program	Basic Science and Engineering Department
Department Responsible for the Course	Basic Science and Engineering Department
Course Code	BAS 022
Year/ Level	Level zero
Specialization	major
Authorization date of course report	7/2022
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching hours	Lectures	Exercise	laboratory	Student's load
	2	2	-	4

#### B. Specialized information:

##### 1. Statistics

Subject	No.	Percentage
Students attending the course	408	100%
Students completing the course	382	93.4 %
Results	Passed	307
	Failed	101
Grading of successful students	Excellent	113
	Very Good	52
	Good	35
	Pass	107



## Annual course Report

### Mechanics 2 (BAS022)

#### 2. Course Teaching:

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Position, Displacement, Velocity, and Acceleration of particle	4	4	-	8
2	Plane Motion Path of Particle	2	2	-	4
3	Description of plane motion using Cartesian axes	2	2	-	4
4	Projectiles	2	2	-	4
5	Relative motion between particles	2	2	-	4
6	Motion for particle in circular path	2	2	-	4
7	Newton's second law of motion	4	4	-	8
8	Principle of work and energy of motion	4	4	-	8
9	Principle of conservation of mechanical energy	2	2		4
10	Principle of Impulse and Momentum of rigid body	4	4		8
<b>Total</b>		<b>28</b>	<b>28</b>	<b>-</b>	<b>56</b>

- Topics taught as a percentage of the content specified: 94%

- Lecturers commitment of the course content: 96 %

- Used Teaching and Learning Methods

No.	Teaching Method	Choice
1	Lectures	√
2	Discussion Sessions	×
3	Information Collection from Different Sources	√
4	Practical	x
5	Research Assignment	x
6	Field Visits	×
7	Case Studies	x
8	Smart Sessions	×





## Annual course Report

### Mechanics 2 (BAS022)

#### - Student Assessment:

No.	Evaluation Method	Marks
1	Periodic exams	20
2	Student load	20
3	Final term examination	60
<b>Total</b>		<b>100</b>

#### 3. Facilities Required for Teaching and Learning:

No.	Facility	Choice	No.	Facility	Choice
1	Lecture Classroom	√	7	Wireless Board	×
2	Lab Facilities	√	8	Presenter	×
3	White Board	√	9	Sound System	√
4	Data Show System	√	10	Wire-Internet	x
5	Visualizer	×	11	Wireless Internet	√
6	Smart Board	×	12	...	×

#### 4- Administrative Constraints:

No.	Constraints
1	-

#### 5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	93.22 %

#### 6- Course enhancement suggestions

No.	Suggestions
1	Transplant And Assess Pedagogy Utilizing Such Technologies To Enhance Students' Learning.

#### 7- Comments from external evaluator(s) (if exists):

No.	Comments
1	-





## Annual course Report

### Mechanics 2 (BAS022)

#### 8- What has been implemented of the student's suggestions in the previous year?

No.	Suggestions
1	Improve lecture notes
2	Integrating work experiences with education.

#### 9- What has not been implemented of the suggestions (give reasons)?

No.	Suggestions	Reasons
1	References need update	

#### 10- What has been implemented from the action plan in the previous year?

No.	Areas of development	Description of development	Completion date	Person responsible
1	Students do presentations during the semester	Students do presentations during the semester	2021-2022	Institute management

#### 11- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	-Increase Case studies implementation according to social's needed	1. Divided Students' groups 2. Evaluation projects	2022-2023	Dr. Moataz Mostafa

Course Coordinator: Dr. Moataz Mostafa

Head of Department: Assoc. Prof. Dr. Amal Behairy

Date of Approval: 7/2022



## Annual Course Report

### Physics 2

### BAS023

#### A. Basic Information

Program Title	All programs
Department offering the Program	Basic Science and Engineering Department
Department Responsible for the Course	Basic Science and Engineering Department
Course Code	BAS023
Level / Semester	Level 0
Specialization	Major
Authorization date of course report	8/2022
Exam Committee Selection Rule	Commissioning of the Institute Management
External Revision of Examination	--
Lecturers Number	2

Teaching hours	Lectures	Exercise	laboratory	Student's load
	2	2	2	4

#### B. Specialized information:

##### 1. Statistics

Subject		No.	Percentage
Students attending the course		431	100%
Students completing the course		409	94.9%
Results	Passed	313	72.62%
	Failed	118	27.38%
Grading of successful students	Excellent	53	12.3%
	Very Good	58	13.5%
	Good	45	10.4%
	Pass	157	36.4%



## Annual Course Report

### Physics 2

### BAS023

#### 2. Course Teaching:

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Basic of electricity. Practical: measurement devices in electrical conductivity.	2	2	4	4
2	Coulomb's law and Gauss's law. Practical: sensitivity of galvanometer.	4	4	2	8
3	Capacitors and capacitance. Practical: capacitors and capacitance	2	2	2	4
4	Currents and Resistance. Practical: ohm's law - series connection & parallel connection & resistance colour code & meter bridge - voltmeter resistance.	4	4	10	8
5	Magnetic field and magnetic force. Practical: the inverse square law in magnetism.	4	4	2	8
6	The nature and propagation of light. Practical: the glass prism.	4	4	2	8
7	Optical fiber. Practical: the glass prism.	2	2	2	4
8	Introduction to Quantum theory.	2	2	0	4
9	Laser. Practical:	2	2	0	4
10	Lenses and mirrors. Practical: spherometer- mirrors and lenses.	2	2	4	4
<b>Total</b>		<b>28</b>	<b>28</b>	<b>28</b>	<b>56</b>

- Topics taught as a percentage of the content specified: 100 %
- Lecturers commitment of the course content 95 %
- Coverage of exam topics to course content: 96 %



## Annual Course Report

### Physics 2

### BAS023

#### - Used Teaching and Learning Methods

No.	Teaching Methods
1	Lectures
2	Discussion sessions
3	Information collection from different sources
4	Research assignment

#### - Student Assessment:

No.	Evaluation Method	Marks
1	Periodic exams	30
2	final examination	75
3	Practical examination	15
4	Student load	30
Total		150

#### 3. Facilities Required for Teaching and Learning:

No.	Facility
1	Lecture classroom
2	Laboratory
3	Presenter
4	White board
5	Data show system

#### 4- Administrative Constraints:

No.	Constraints
1	-

#### 5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	91.1%

#### 6- Course enhancement suggestions

No.	Suggestions
2	Integrating work experiences with education.



## Annual Course Report

### Physics 2

### BAS023

#### 7- Comments from external evaluator(s) (if exists):

No.	Comments
1	-

#### 8- What has been implemented of the student's suggestions in the previous year?

No.	Suggestions
1	Provide training on how to use a new teaching technology in their classes.

#### 9- What has not been implemented of the suggestions (give reasons)?

No.	Suggestions	Reasons
1	-	

#### 10- What has been implemented from the action plan in the previous year?

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some of scientific reference In the library of the institute	Add more physics books in the electronic library of the institute	2021-2022	Dr. Amal Behairy Dr. Ahmed Lotfy

#### 11- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Applying self-learning and developing the educational process	Increasing brainstorming with lectures and lectures through quizzes and reports	2022-2023	Dr. Amal Bahiry Dr. Ahmed Lotfy

**Course Coordinator:** Assoc. Prof. Dr / Amal Bahiry  
Dr / Ahmed Lotfy

**Head of Department:** Assoc. Prof. Dr / Amal Bahiry

**Date of Approval:** 8/2022



## Annual Course Report Production Engineering BAS024

### A. Basic Information

<b>Program Title</b>	All programs
<b>Department offering the Program</b>	Basic Science and Engineering Department
<b>Department Responsible for the Course</b>	Basic Science and Engineering Department
<b>Course Code</b>	BAS 024
<b>Year/ Level</b>	Level zero
<b>Specialization</b>	major
<b>Authorization date of course report</b>	7/2022
<b>Exam Committee Selection Rule</b>	Commissioning of the Institute of Management
<b>External Revision of Examination</b>	--
<b>Lecturers Number:</b>	1

Teaching hours	Lectures	Exercise	laboratory	Student's load
	3	-	2	4

### B. Specialized information:

#### 1. Statistics

Subject		No.	Percentage
Students attending the course		413	100%
Students completing the course		413	100%
Results	Passed	305	73.85%
	Failed	107	26.15%
Grading of successful students	Excellent	15	3.6%
	Very Good	38	9%
	Good	78	18.9%
	Pass	175	42.4%



## Annual Course Report Production Engineering BAS024

### 2. Course Teaching:

No.	Topics	Lecture	Exercise	laboratory	Student load
1	The engineering substances and its properties Practical: engineering materials	3	-	2	4
2	Heating and cooling diagrams Practical: iron and steel production	3	-	2	4
3	Heating equilibrium diagrams Practical : heat treatment	3	-	2	4
4	Alloys - Casting operation (sand casting and the preparation of the mold) Practical: metal casting & mold for a sand casting& carpenter workshop	6	-	4	4
5	Forming processes (cold and hot forming: forging rolling – Wire drawing – Blanking and piercing - Deep drawing - The extrusion) Practical: metal forming	6	-	4	4
6	Processes of metal connections (the riveting – welding with its types sticking) Practical: metal joining process	6	-	2	4
7	Cutting machining: Lathing - Shaping – Drilling –Milling - Grinding – Work Piece fixation - Cutting tools fixation - Specifications of the operating machine) Practical: carpenter workshop	6	-	2	4
8	Methods of solving problems Practical: metal machining	3	-	2	4
9	Measuring tools (venire caliper – micrometers and its types) Practical: measurement tools	3	-	4	8
10	Production cycle production efficiency - Industrial safety Practical training in the different workshops	3	-	4	8
<b>Total</b>		<b>42</b>	<b>-</b>	<b>28</b>	<b>56</b>



## Annual Course Report Production Engineering BAS024

- Topics taught as a percentage of the content specified: 100%
- Lecturers commitment of the course content 100%
- Coverage of exam topics to course content: 100%

### - Used Teaching and Learning Methods

No.	Teaching Methods
1	Lectures
2	Discussion sessions
3	Information collection from different sources
4	practical
5	Research assignment
6	Case study

### - Student Assessment:

No.	Evaluation Method	Marks
1	Periodic exams	40
2	final examination	75
3	Practical examination	10
<b>Total</b>		<b>125</b>

### 3. Facilities Required for Teaching and Learning:

No.	Facility
1	Lecture classroom
2	Presenter
3	White board
4	Data show system
5	Wireless internet
6	Sound system

### 4- Administrative Constraints:

No.	Constraints
1	-

### 5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	88.33%





## Annual Course Report Production Engineering BAS024

### 6- Course enhancement suggestions

No.	Suggestions
1	Using online course material.
2	Provide training on how to use a new teaching technology in their classes.

### 7- Comments from external evaluator(s) (if exists):

No.	Comments
1	-

### 8- What has been implemented of the student's suggestions in the previous year?

No.	Suggestions
1	Improve lecture notes
2	Integrating work experiences with education.
3	Transplant And Assess Pedagogy Utilizing Such Technologies To Enhance Students' Learning.

### 9- What has not been implemented of the suggestions (give reasons)?

No.	Suggestions	Reasons
1	-----	

### 10- What has been implemented from the action plan in the previous year?

No.	Areas of development	Description of development	Completion date	Person responsible
1	Updating the course's educational resources	Updating the course's educational resources	2021-2022	staff
2	-Increase Case studies implementation according to social's needed	1- Divided Students' groups 2- Evaluation projects		Staff



**Annual Course Report  
Production Engineering  
BAS024**

**11- Action plan for next academic year**

No.	Areas of development	Description of development	Completion date	Person responsible
1	Make factory visits to see the industrial operations	Uploading more explanatory videos of the production processes of minerals on the electronic library of the Institute	2022-2023	Dr.Abdu El-Naquib

**Course Coordinator: Dr.Abdu El-Naquib**

**Head of Department: Assoc.Prof. Dr. Amal Bahiry**

**Date of Approval: 7/ 2022**



## Annual Course Report Introduction to Engineering and Environment BAS025

### A. Basic Information

<b>Program Title</b>	All programs
<b>Department offering the Program</b>	Basic Science and Engineering Department
<b>Department Responsible for the Course</b>	Basic Science and Engineering Department
<b>Course Code</b>	BAS 025
<b>Year/ Level</b>	Level zero
<b>Specialization</b>	major
<b>Authorization date of course report</b>	7/2022
<b>Exam Committee Selection Rule</b>	Commissioning of the Institute of Management
<b>External Revision of Examination</b>	--
<b>Lecturers Number:</b>	2

Teaching hours	Lectures	Exercise	laboratory	Student's load
	2	-	-	2

### B. Specialized information:

#### 1. Statistics

Subject		No.	Percentage
Students attending the course		343	100%
Students completing the course		341	99.12%
Results	Passed	219	63.85%
	Failed	124	36.15%
Grading of successful students	Excellent	22	6.41%
	Very Good	24	6.99%
	Good	45	13.12%
	Pass	128	37.31%

#### 2. Course Teaching:

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Engineering concepts: What is engineering – international classification for the engineering jobs – relation between engineering development and environment economic and social development – engineering branches – ethics of the engineering jobs.	10	-	-	10



**Annual Course Report**  
**Introduction to Engineering and Environment**  
**BAS025**

2	Introduction to environmental science: the importance of studying environmental science – modern technology and its effect on the environment – quality of the environment and development elements	2	-	-	2
3	sources of environmental pollution and method of control (air pollution – water pollution – solid wastes pollution –noise)	4	-	-	4
4	Economics of environmental pollution control – legislations for the environment protection.	12	-	-	12
<b>Total</b>		<b>28</b>	<b>-</b>	<b>-</b>	<b>28</b>

- Topics taught as a percentage of the content specified: 100 %
- Lecturers commitment of the course content: 100 %
- Coverage of exam topics to course content: 90 %

**Used Teaching and Learning Methods**

No.	Teaching Method	Choice
1	Lectures	√
2	Discussion Sessions	√
3	Information Collection from Different Sources	√
4	Practical	×
5	Research Assignment	√
6	Field Visits	×
7	Case Studies	√
8	Smart Sessions	×

**Student Assessment:**

No.	Evaluation Method	Marks
1	Periodic exams	10
2	Student load	15
3	Final-term examination	50
<b>Total</b>		<b>75</b>



## Annual Course Report Introduction to Engineering and Environment BAS025

### 3. Facilities Required for Teaching and Learning:

No.	Facility	Choice	No.	Facility	Choice
1	Lecture Classroom	√	7	Wireless Board	×
2	Lab Facilities	×	8	Presenter	√
3	White Board	√	9	Sound System	√
4	Data Show System	√	10	Wire-Internet	√
5	Visualize	×	11	Wireless Internet	√
6	Smart Board	×	12	...	×

### 4- Administrative Constraints:

No.	Constraints
1	-

### 5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	90.25%

### 6- Course enhancement suggestions

No.	Suggestions
1	Provide training on how to use a new teaching technology in their classes.
2	Mention to sources, references and web sites to update the general material of the course.

### 7- Comments from external evaluator(s) (if exists):

No.	Comments
1	-

### 8- What has been implemented of the student's suggestions in the previous year?

No.	Suggestions
1	Improve lecture notes
2	Integrating work experiences with education.
3	Transplant And Assess Pedagogy Utilizing Such Technologies To Enhance Students' Learning.

### 9- What has not been implemented of the suggestions (give reasons)?

No.	Suggestions	Reasons
1	Field visiting	Covid - 19

### 10- What has been implemented from the action plan in the previous year?

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some of scientific reference In the library of the institute	Add more scientific reference In the electronic library of the institute	2021-2022	Institute management
2	Visit some water treatment plant and renewable energy.	Provide field visits	2021-2022	Institute management



**Annual Course Report**  
**Introduction to Engineering and Environment**  
**BAS025**

**11- Action plan for next academic year**

No.	Areas of development	Description of development	Completion date	Person responsible
1	Make factory visits to see the industrial operations	Uploading more explanatory videos of the production processes of minerals on the electronic library of the Institute	2022-2023	Assoc. Prof. Dr. Ramadan Elkateb
2	Visit some water treatment plant and renewable energy.	Provide field visits	2022-2023	Assoc. Prof. Dr. Ramadan Elkateb

**Course Coordinator: Prof. Dr./ Osamy Rageh**

**Assoc. Prof. Dr. Ramadan Elkateb**

**Head of Department: Assoc. Prof. Dr. Amal Bahiry**

**Date of Approval: 7/2022**



## Annual Course Report Technical English Language 1 BAS026

### A. Basic Information

<b>Program Title</b>	All programs
<b>Department offering the Program</b>	Basic Science and Engineering Department
<b>Department Responsible for the Course</b>	Basic Science and Engineering Department
<b>Course Code</b>	BAS 026
<b>Year/ Level</b>	Level zero
<b>Specialization</b>	Major
<b>Authorization date of course report</b>	7/2022
<b>Exam Committee Selection Rule</b>	Commissioning of the Institute of Management
<b>External Revision of Examination</b>	--
<b>Lecturers Number:</b>	1

Teaching hours	Lectures	Exercise	laboratory	Student's load
	2	-	2	3

### B. Specialized information:

#### 1. Statistics

Subject		Percentage
Students attending the course		100
Students completing the course		100
Results	Passed	60.45
	Failed	39.55
Grading of successful students	Excellent	14.4
	Very Good	7.6
	Good	10.1
	Pass	28.5

#### 2. Course Teaching:



**Annual Course Report**  
**Technical English Language 1**  
**BAS026**

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Engineering Lab.: skills in English Lesson 1 Bob's Day at work & Lesson 2 Bob returns home with bad news	6	-	6	3
2	A private flat Lab.: skills in English Lesson 3 Ted's Day at school	2	-	2	6
3	Book shelves Lab.: skills in English Lesson 4 Nicole's day at school	2	-	2	3
4	Bridges Lab.: skills in English Lesson 5 Ted goes out for the evening Grammar Topics	4	-	4	6
5	Reinforced concrete Lab.: skills in English Lesson 6 Susan stays home and bake cookies & Lesson 7 Susan hires Bob to run her own business	4	-	4	6
6	Surveying Lab.: skills in English Lesson 8 Ted forms a rock band & Lesson 9 Nicole for president	4	-	4	6
7	Hydraulic works Lab.: skills in English Lesson 10 Bob visits the village market	4	-	4	6
8	Soil mechanics and foundations Lab.: skills in English Grammar topics	2	-	2	6
<b>Total</b>		<b>28</b>	<b>-</b>	<b>28</b>	<b>42</b>





## Annual Course Report Technical English Language 1 BAS026

- Topics taught as a percentage of the content specified: 90 %
- Lecturers commitment of the course content: 100 %
- Coverage of exam topics to course content: 95%
- Used Teaching and Learning Methods

No.	Teaching Method	Choice
1	Lectures	√
2	Discussion Sessions	×
3	Information Collection from Different Sources	√
4	Practical	√
5	Research Assignment	x
6	Field Visits	×
7	Case Studies	x
8	Smart Sessions	×

### - Student Assessment:

No.	Evaluation Method	Marks
1	Periodic exams	20
2	Practical examination	10
3	Student load	20
4	Final-term examination	50
<b>Total</b>		<b>100</b>

### 3. Facilities Required for Teaching and Learning:

No.	Facility	Choice
1	Lecture Classroom	√
2	Lab Facilities	√

No.	Facility	Choice
7	Wireless Board	×
8	Presenter	×



## Annual Course Report Technical English Language 1 BAS026

3	White Board	√	9	Sound System	√
4	Data Show System	√	10	Wire-Internet	x
5	Visualizer	×	11	Wireless Internet	√
6	Smart Board	×	12	...	×

### 4- Administrative Constraints:

No.	Constraints
1	-

### 5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	87.89%

### 6- Course enhancement suggestions

No.	Suggestions
1	Improve lecture notes
2	integration work experience with education

### 7- Comments from external evaluator(s) (if exists):

No.	Comments
1	

### 8- What has been implemented of the student's suggestions in the previous year?

No.	Suggestions
1	Using online course materials



**Annual Course Report**  
**Technical English Language 1**  
**BAS026**

**9- What has not been implemented of the suggestions (give reasons)?**

No.	Suggestions	Reasons
1	-	

**10- What has been implemented from the action plan in the previous year?**

No.	Areas of development	Description of development	Completion date	Person responsible
1	Students make a presentation during the semester.	Students do research using the internet.	2021-2022	Institute management

**11- Action plan for next academic year**

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some English language reference in the library of the institute	Add more English Language books in library of the institute	2022-2023	Dr. Doaa Elsherbiny

**Course Coordinator:** Dr. Doaa Elsherbiny

**Head of Department:** Assoc. Prof. Amal Behairy

**Date of Approval:** 7/ 2022



## Annual Course Report

### Human Rights

#### BAS027

##### A. Basic Information

<b>Program Title</b>	All programs
<b>Department offering the Program</b>	Basic Science and Engineering Department
<b>Department Responsible for the Course</b>	Basic Science and Engineering Department
<b>Course Code</b>	BAS 027
<b>Year/ Level</b>	Level zero
<b>Specialization</b>	major
<b>Authorization date of course report</b>	7/2022
<b>Exam Committee Selection Rule</b>	Commissioning of the Institute of Management
<b>External Revision of Examination</b>	--
<b>Lecturers Number:</b>	1

Teaching hours	Lectures	Exercise	laboratory	Student's load
	2	-	-	2

##### B. Specialized information:

###### 1. Statistics

Subject		No.	Percentage
Students attending the course		372	100%
Students completing the course		351	94.4%
Results	Passed	341	97.1%
	Failed	10	2.9%
Grading of successful students	Excellent	48	14.0%
	Very Good	81	23.8%
	Good	97	28.5%
	Pass	115	33.7%



## Annual Course Report

### Human Rights

#### BAS027

#### 2. Course Teaching:

No.	Topics	Lecture	Exercise	laboratory	Student load
1	الإلمام بأهمية حقوق الإنسان والنشأة التاريخية لتلك الحقوق والمدارس الفقهية لتأصيل تلك الحقوق.	2	-	-	2
2	أحكام الاتفاقيات الدولية الخاصة بحقوق الإنسان ، والمنظمات الدولية العالمية والإقليمية القائمة على حماية تلك الحقوق ، وموقف الدستور المصري من حقوق الإنسان ، والحماية القانونية لها على الصعيد الوطني والصعيد الدولي ، بالإضافة إلى حقوق الإنسان في الشريعة الإسلامية	4	-	-	4
3	الأصول التاريخية الفلسفية لحقوق الإنسان	4	-	-	4
	المصادر الدولية لحقوق الإنسان (العالمية والإقليمية) المصادر الوطنية لحقوق الإنسان				
4	الأجهزة العالمية القائمة على حماية حقوق الإنسان ( أجهزة الأمم المتحدة) الحماية الوطنية لحقوق الإنسان	6	-	-	6
5	حقوق الإنسان في الشريعة الإسلامية عرض لبعض طوائف حقوق الإنسان	12	-	-	12
<b>Total</b>		<b>28</b>	<b>-</b>	<b>-</b>	<b>28</b>

- Topics taught as a percentage of the content specified: 90 %
- Lecturers commitment of the course content: 100 %
- Coverage of exam topics to course content: 95 %
- Used Teaching and Learning Methods

No.	Teaching Method	Choice
1	Lectures	√
2	Discussion Sessions	√
3	Information Collection from Different Sources	√
4	Practical	x
5	Research Assignment	√
6	Field Visits	x
7	Case Studies	x
8	Smart Sessions	x
9	...	x



## Annual Course Report

### Human Rights

#### BAS027

#### - Student Assessment:

No.	Evaluation Method	Marks
1	Periodic exams	10
2	Student load	5
3	Semester work	5
4	Final-term examination	30
<b>Total</b>		<b>50</b>

#### 3. Facilities Required for Teaching and Learning:

No.	Facility	Choice	No.	Facility	Choice
1	Lecture Classroom	√	7	Wireless Board	x
3	White Board	√	8	Sound System	√
4	Data Show System	√	9	Wire-Internet	x
5	Visualizer	x	10	Wireless Internet	√
6	Smart Board	x	11	...	x

#### 4- Administrative Constraints:

No.	Constraints
1	-

#### 5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	91.72%

#### 6- Course enhancement suggestions

No.	Suggestions
1	Adding contents from the Egyptian Constitution to learn about some of its contents

#### 7- Comments from external evaluator(s) (if exists):

No.	Comments
1	



## Annual Course Report

### Human Rights

#### BAS027

8- What has been implemented of the student's suggestions in the previous year?

No.	Suggestions
1	Increase interactive lectures by making presentations presented by students

9- What has not been implemented of the suggestions (give reasons)?

No.	Suggestions	Reasons
1	The above-mentioned suggestions have been implemented	

10- What has been implemented from the action plan in the previous year?

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase interactive lectures by making presentations presented by students	Assigning students to make interactive presentations on curriculum topics	2021-2022	Dr. Ibrahim Taha

11- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Adding contents from the Egyptian Constitution to learn about some of its contents	Presenting some texts of the current Egyptian constitution and introducing it in some lectures	2022-2023	

Course Coordinator: Dr. Ibrahim Taha

Head of Department: Associate prof. Aml El-Behiry

Date of Approval: 7/2022





قسم الهندسة الكيميائية  
Department of Chemical Engineering



وزارة التعليم العالي  
المعهد العالي للهندسة والتكنولوجيا  
بدمياط الجديدة

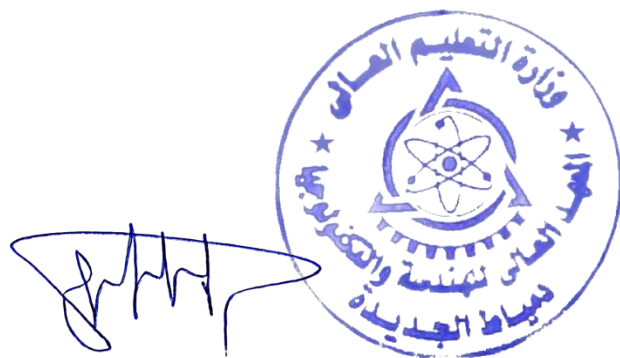
## تقارير المقررات قسم الهندسة الكيميائية

إعتماد مجلس القسم لتقارير المقررات قسم الهندسة  
الكيميائية

بتاريخ 2022/7/18

إعتماد المجلس العلمي لتقارير المقررات قسم الهندسة  
الكيميائية

بتاريخ 2022/7/25






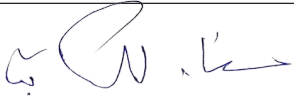



وزارة التعليم العالي  
المعهد العالي للهندسة والتكنولوجيا  
بدمياط الجديدة

2021- 2022

## تقارير المقررات لقسم الهندسة الكيميائية



Head of the department	Quality Assurance Unit Manager	Dean of the institute
		
Assoc.Prof.Dr./ Henda Elsayed Gadow	Assoc.Prof.Dr./ Ramadan Abdelghany Elkateb	Prof.Dr./ Osami Elsaeed Rageh



وزارة التعليم العالي  
المعهد العالي للهندسة والتكنولوجيا  
بدمياط الجديدة



## فرقة اولى



**Annual Course Report:  
Mathematics 3  
BAS111**

**A. Basic Information:**

<b>Program Title</b>	Chemical Engineering
<b>Department offering the Program</b>	Chemical Engineering Department
<b>Department Responsible for the Course</b>	Basic Science and Engineering Department
<b>Course Code</b>	BAS111
<b>Year/ Level</b>	Level 1
<b>Specialization</b>	Major
<b>Authorization data of course report</b>	3/2022
<b>Exam Committee Selection Rule</b>	Commissioning of the Institute of Management
<b>External Revision of Examination</b>	--
<b>Lecturers Number:</b>	1

Teaching hours	Lectures	Exercise	laboratory	Student's load
	2	2	-	4

**B. Specialized information:**

**1. Statistics**

Subject		No.	Percentage
Students attending the course		266	100%
Students completing the course		266	100%
Results	Passed	211	79.32%
	Failed	55	20.68%
Grading of successful students	Excellent	62	23.3%
	Very Good	44	16.5%
	Good	43	16.2%
	Pass	62	23.3%



Annual Course Report:  
Mathematics 3  
BAS111

2. Course Teaching:

No.	Topics	Lecture	Exercise	laboratory	Student load
1	maximum and minimum values in more than one variable	2	2	-	8
2	□ directional analysis the directional differential effects	4	4	-	10
3	□ multi integrations and its applications (the curved and the orthogonal axis)	4	10	-	10
4	Gauss- Stokes theory - the endless series and function expansion – basic concepts for the convergence and divergence.	10	4	-	12
5	• The first order (the equations which can be separated, homogeneous, exact and linear) - the ordinary differential equations from the second order and higher orders (with constant and variable coefficients	4	4	-	8
6	systems from the ordinary differential equations– Laplace transfer and its applications in the solution of differential equations	4	4	-	8
<b>Total</b>		<b>28</b>	<b>28</b>	<b>-</b>	<b>56</b>

- Topics taught as a percentage of the content specified: 100 %
- Lecturers commitment of the course content: 100 %
- Coverage of exam topics to course content: 100 %



**Annual Course Report:  
Mathematics 3  
BAS111**

**- Used Teaching and Learning Methods**

No.	Teaching Method	Choice
1	Lectures	√
2	Discussion Sessions	×
3	Information Collection from Different Sources	√
4	Practical	x
5	Research Assignment	x
6	Field Visits	×
7	Case Studies	x
8	Smart Sessions	×

**- Student Assessment:**

No.	Evaluation Method	Marks
1	Periodic exams	30
2	Student load	30
3	Final term examination	90
<b>Total</b>		<b>150</b>

**3. Facilities Required for Teaching and Learning:**

No.	Facility	Choice
1	Lecture Classroom	√
2	Lab Facilities	√
3	White Board	√
4	Data Show System	√
5	Visualizer	×
6	Smart Board	×

No.	Facility	Choice
7	Wireless Board	×
8	Presenter	×
9	Sound System	√
10	Wire-Internet	x
11	Wireless Internet	√
12	...	×

**4- Administrative Constraints:**

No.	Constraints
1	-



**Annual Course Report:  
Mathematics 3  
BAS111**

**5- Student Evaluation Result of the Course:**

No.	Evaluation Result
1	81.59%

**6- Course enhancement suggestions**

No.	Suggestions
1	Increase some of scientific reference in the library of the institute.

**7- Comments from external evaluator(s) (if exists):**

No.	Comments
1	No comment

**8- What has been implemented of the student's suggestions in the previous year?**

No.	Suggestions
1	Using online course material

**9- What has not been implemented of the suggestions (give reasons)?**

No.	Suggestions	Reasons
1	----	----

**10- What has been implemented from the action plan in the previous year?**

No.	Areas of development	Description of development	Completion date	Person responsible
1	Add online course material to student	Add course notes assignments and quizzes on moddle	2021-2022	Dr. Motaz ELzky

**11- Action plan for next academic year**

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some of scientific reference in the library of the institute	Add more books in the electronic library of institute	2022-2023	Dr. Samar Madian

**Course Coordinator:** Dr. Samar Madian

**Head of Department:** Assoc. prof. Amal Behairy

**Date of Approval:** 3/2022

**Ministry of Higher Education  
The Higher Institute of  
Engineering and Technology  
New Damietta**



**وزارة التعليم العالي  
المعهد العالي للهندسة والتكنولوجيا  
بدمياط الجديدة**

**Annual Course Report:  
Mathematics 3  
BAS111**



## Annual Course Report: Electrical Engineering Fundamentals

### A. Basic Information

Program Title	Chemical Engineering
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Basic Science and Engineering Department
Course Code	BAS112
Year/ Level	Level 1
Specialization	Major
Authorization data of course report	3/2022
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching hours	Lectures	Exercise	laboratory	Student's load
	3	2	-	4

### B. Specialized information:

#### 1. Statistics

Subject		No.	Percentage
Students attending the course		270	100%
Students completing the course		268	99.3%
Results	Passed	228	84.44%
	Failed	42	15.56%
Grading of successful students	Excellent	14	5.2%
	Very Good	61	22.6%
	Good	61	22.6%
	Pass	92	34.1%

#### 2. Course Teaching:

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Direct Current	3	2	-	4
2	Theory of electric circuits	8	6	-	12
3	Delta and Star connections	2	1	-	2
4	Sine A.C and D.C circuits	8	5	-	10
5	Time vectors diagram	3	2	-	4
6	Electric power and power factor in A.C circuits	3	2	-	4





## Annual Course Report: Electrical Engineering Fundamentals

7	3-Phase current - Electric machines - D.C machines	6	4	-	8
8	Transformers	3	2	-	4
9	Induction and synchronous machines	3	2	-	4
10	Fractional power machine	3	2	-	4
<b>Total</b>		<b>42</b>	<b>28</b>	<b>-</b>	<b>56</b>

- Topics taught as a percentage of the content specified: 80 %
- Lecturers commitment of the course content: 90%
- Coverage of exam topics to course content: 85 %

### - Used Teaching and Learning Methods

No.	Teaching Methods
1	Lectures
2	Discussion sessions
3	Information collection from different sources
4	Research assignment
5	Practical training/lab

### - Student Assessment:

No.	Evaluation Method	Marks
1	Periodic exams	30
2	Student load	30
3	final examination	90
<b>Total</b>		<b>150</b>

### 3. Facilities Required for Teaching and Learning:

No.	Facility
1	Lecture classroom
2	Presenter
3	White board
4	Data show system
5	Wireless internet
6	Sound system



## Annual Course Report: Electrical Engineering Fundamentals

### 4- Administrative Constraints:

No.	Constraints
1	-

### 5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	88.52%

### 6- Course enhancement suggestions

No.	Suggestions
1	Adding new applications and practical examples
2	Increasing student interaction and participation when implementing the course
3	The course is expanded from theoretical and software engineer views to include a piratical work view the course.

### 7- Comments from external evaluator(s) (if exists):

No.	Comments
1	The previous prerequisite is not mentioned
2	References need update

### 8- What has been implemented of the student's suggestions in the previous year?

No.	Suggestions
1	Improve lecture notes
2	Integrating work experiences with education.
3	Transplant And Assess Pedagogy Utilizing Such Technologies To Enhance Students' Learning.

### 9- What has not been implemented of the suggestions (give reasons)?

No.	Suggestions	Reasons
1	Use the laboratory for teaching Electrical Engineering Fundamentals experiments	Practical part not present in the regulation of the institute.



## Annual Course Report: Electrical Engineering Fundamentals

10- What has been implemented from the action plan in the previous year?

No.	Areas of development	Description of development	Completion date	Person responsible
1	Add more Engineering applications	Series parallel resonance circuits	2021-2022	Institute management

11- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Fractional power machine	Increasing the number of lectures and diversifying more topics	2022-2023	Institute management

Course Coordinator: Dr. Rabab Reda

Head of Department: Assoc.prof. Amal bahiry

Date of Approval: 3/2022

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## Annual Course Engineering Thermodynamics

### A. Basic Information

<b>Program Title</b>	Chemical Engineering
<b>Department offering the Program</b>	Chemical Engineering Department
<b>Department Responsible for the Course</b>	Basic Science and Engineering Department
<b>Course Code</b>	BAS113
<b>Year/ Level</b>	level 1
<b>Specialization</b>	Major
<b>Authorization data of course report</b>	3/2022
<b>Exam Committee Selection Rule</b>	Commissioning of the Institute of Management
<b>External Revision of Examination</b>	--
<b>Lecturers Number:</b>	1

Teaching hours	Lectures	Exercise	laboratory	Student's load
	3	2	-	4

### B. Specialized information:

#### 1. Statistics

Subject		No.	Percentage
Students attending the course		463	100%
Students completing the course		463	100%
Results	Passed	420	90.71%
	Failed	43	9.29%
Grading of successful students	Excellent	124	26.78%
	Very Good	78	16.84%
	Good	106	22.98%
	Pass	112	24.19%



## Annual Course Engineering Thermodynamics

### 2. Course Teaching:

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Fundamental concepts - Properties of a pure substance	3	2	-	4
2	Equation of state -thermodynamic systems	3	2	-	4
3	Work and heat - First law of thermodynamics; Applications to Systems and Control Volumes	9	6	-	12
4	Second Law of Thermodynamics; Principle of Carnot cycles; Heat engines, Refrigerators and heat pumps	6	4	-	8
5	Principle of the increase of entropy	6	4	-	8
6	Applications to systems and control volumes	9	6	-	12
7	Irreversibility and availability - Power and refrigeration cycles.	6	4	-	8
<b>Total</b>		<b>42</b>	<b>28</b>	<b>-</b>	<b>56</b>

- Topics taught as a percentage of the content specified: 90%
- Lecturers commitment of the course content 95%
- Coverage of exam topics to course content: 100%

### - Used Teaching and Learning Methods

No.	Teaching Methods
1	Lectures
2	Discussion sessions
3	Information collection from different sources
4	Research assignment

### - Student Assessment:



## Annual Course Engineering Thermodynamics

No.	Evaluation Method	Marks
1	Periodic exams	20
2	final examination	75
3	Student load	20
4	Practical /oral	10
	<b>Total</b>	<b>125</b>

### 3. Facilities Required for Teaching and Learning:

No.	Facility
1	Lecture classroom
2	Presenter
3	White board
4	Data show system
5	Wireless internet
6	Sound system

### 4- Administrative Constraints:

No.	Constraints
1	-

### 5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	90.45%

### 6- Course enhancement suggestions

No.	Suggestions
1	Introducing recent topics to the course on a permanent and continuous basis
2	Mention to sources, references and web sites to update the general material of the course.

### 7- Comments from external evaluator(s) (if exists):

No.	Comments
1	-----



**Annual Course**  
**Engineering Thermodynamics**

**8- What has been implemented of the student's suggestions in the previous year?**

No.	Suggestions
1	Improve lecture notes
2	Integrating work experiences with education.
3	Transplant And Assess Pedagogy Utilizing Such Technologies To Enhance Students' Learning.

**9- What has not been implemented of the suggestions (give reasons)?**

No.	Suggestions	Reasons
1	References need update	

**10- What has been implemented from the action plan in the previous year?**

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some exercises	Increase some exercises	2021-2022	Staff

**11- Action plan for next academic year**

No.	Areas of development	Description of development	Completion date	Person responsible
1	Self-learning	Enhance searching	2023-2022	Dr. Abdelnaby kabeel

**Course Coordinator: Dr. Abdelnaby Kabeel / Dr. Moataz Mostafa**  
**Head of Department: Assoc. Prof. Dr. Aml Elbehery**  
**Date of Approval: 3/2022**

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## Annual Course Report: Technical English Language 2

### A. Basic Information

<b>Program Title</b>	Chemical Engineering
<b>Department offering the Program</b>	Chemical Engineering Department
<b>Department Responsible for the Course</b>	Basic Science and Engineering Department
<b>Course Code</b>	BAS114
<b>Year/ Level</b>	Level 1
<b>Specialization</b>	Major
<b>Authorization data of course report</b>	2/2022
<b>Exam Committee Selection Rule</b>	Commissioning of the Institute of Management
<b>External Revision of Examination</b>	--
<b>Lecturers Number:</b>	1

Teaching hours	Lectures	Exercise	laboratory	Student's load
	2	-	2	3

### B. Specialized information:

#### 1. Statistics

Subject		Percentage
Students attending the course		100
Students completing the course		100
Results	Passed	88.93
	Failed	11.07
Grading of successful students	Excellent	5.53
	Very Good	14.6
	Good	32.8
	Pass	36





## Annual Course Report: Technical English Language 2

### 2. Course Teaching:

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Water Lab skills in English : Lesson 1 Bob drives a hard bargain& Lesson 2 Bob's big coolie order& grammar topics	4	-	4	6
2	Chemical and physical properties. Lab skills in English Lesson 3 Amber comes over to bake cookies & Lesson 4 Amber and Ted heat up the kitchen& grammar topics	4	-	4	6
3	Water cycle Lab skills in English lesson 5 Nicole practices her election speech& grammar topics	2	-	2	3
4	Human uses Lab skills in English : Grammar topics	4	-	4	6
5	Heat transfer Lab skills in English lesson 6 Bob brings the cookies to the village market& lesson 7 Carol tells Bob the good news& grammar topics	4	-	4	6
6	Graphic language Lab skills in English : lesson 8 Every one bakes cookies & lesson 9 Nicole's close election & grammar topics	4	-	4	6
7	Energy Lab Skills in English lesson 10 Bob gets any angry call from Carol & Grammar topics	4	-	4	6
8	Automatic Control Lab Skills in English Grammar topics	2	-	2	3
<b>Total</b>		<b>28</b>	<b>-</b>	<b>28</b>	<b>42</b>



## Annual Course Report: Technical English Language 2

- Topics taught as a percentage of the content specified: 90 %
- Lecturers commitment of the course content: 100 %
- Coverage of exam topics to course content: 95%
- Used Teaching and Learning Methods

N o.	Teaching Method	Choice
1	Lectures	√
2	Discussion Sessions	×
3	Information Collection from Different Sources	√
4	Practical	√
5	Research Assignment	x
6	Field Visits	×
7	Case Studies	x
8	Smart Sessions	×

### - Student Assessment:

No.	Evaluation Method	Marks
1	Periodic exams	20
2	Student load	20
3	Practical examination	10
4	Final term examination	50
<b>Total</b>		<b>100</b>



## Annual Course Report: Technical English Language 2

### 3. Facilities Required for Teaching and Learning:

No.	Facility	Choice	No.	Facility	Choice
1	Lecture Classroom	√	7	Wireless Board	×
2	Lab Facilities	√	8	Presenter	×
3	White Board	√	9	Sound System	√
4	Data Show System	√	10	Wire-Internet	x
5	Visualizer	×	11	Wireless Internet	√
6	Smart Board	×			

### 4- Administrative Constraints:

No.	Constraints
1	-----

### 5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	83.72%

### 6- Course enhancement suggestions

No.	Suggestions
1	Increase some English reference In the library of the institute

### 7- Comments from external evaluator(s) (if exists):

No.	Comments
1	-



## Annual Course Report: Technical English Language 2

### 8- What has been implemented of the student's suggestions in the previous year?

No.	Suggestions
1	Improve lecture notes
2	Integrating work experiences with education.

### 9- What has not been implemented of the suggestions (give reasons)?

No.	Suggestions	Reasons
	----	-----

### 10- What has been implemented of the action plan in the previous year?

No.	Areas of development	Description of development	Completion date	Person responsible
1	Self-learning	Enhance searching	2021-2022	Dr.Doaa Elsherbiny

### 11- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	-Increase Case studies implementation according to social's needed	1. Divided Students' groups 2. Evaluation projects	2022-2023	Dr.Doaa Elsherbiny

**Course Coordinator:** Dr. Doaa Elsherbiny

**Head of Department:** Assoc. Prof. Amal Behairy

**Date of Approval:** 2/2022



## Annual Course Report: Computer Programming

### A. Basic Information

<b>Program Title</b>	Chemical Engineering Program
<b>Department offering the Program</b>	Chemical Engineering Department
<b>Department Responsible for the Course</b>	Engineering and Basic Sciences
<b>Course Code</b>	BAS115
<b>Year/ Level</b>	Level 2
<b>Specialization</b>	Major
<b>Authorization data of course report</b>	2/2022
<b>Exam Committee Selection Rule</b>	Commissioning of the Institute Management
<b>External Revision of Examination</b>	--
<b>Lecturers Number:</b>	1

Teaching hours	Lectures	Exercise	laboratory	Student's load
	2	-	2	4

### B. Specialized information:

#### 1. Statistics

Subject		No.	Percentage
Students attending the course		195	100%
Students completing the course		194	99.5%
Results	Passed	164	84.1%
	Failed	31	15.9%
Grading of successful students	Excellent	1	0.5%
	Very Good	20	10.3%
	Good	65	33.8%
	Pass	77	39.5%

#### 2. Course Teaching:

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Basic concepts of programming. Practical: problem analysis& Developing the programs charts& Structured programming	2	-	2	4



## Annual Course Report: Computer Programming

2	Introduction Java Applications Practical: Form of the Program& fundamentals of Java programming language and its syntax& Primitive data types, operators, variables &J option pane& scanner Classes.	4	-	4	8
3	Branching [Control Statements]. Practical: programs about (If statement, If -Else, Nested IF, Switch)	2	-	2	4
4	[Iterations] Control Statements. Practical: solved problems about (Repetition statements: for, while, dowhile& Nested loop &Continue, Break.)	4	-	4	8
5	Concepts of object Oriented programming Practical: Examples Of Classes, Inheritance Concept.	2	-	2	4
6	Methods in java. Practical: problems of ( Declare method& Message passing& Method overloading)	2	-	2	4
7	Arrays and Array list Practical: Create Array& Matrix& Array List.	4	-	4	8
8	Introduction to java Applets. Practical: java Applets programs.	4	-	4	8
9	Graphical user interface (GUI). Practical: GUI exercises.	4	-	4	8
<b>Total</b>		<b>28</b>	<b>-</b>	<b>28</b>	<b>56</b>

- Topics taught as a percentage of the content specified: 100%
- Lecturers commitment of the course content: 90 %
- Coverage of exam topics to course content: 90 %
- Used Teaching and Learning Methods

No.	Teaching Methods
1	Hybrid learning ( Lectures - E_learning)
2	Expeditionary Learning
3	Personalized Learning
4	Inquiry-based Learning
5	Cooperative learning



## Annual Course Report: Computer Programming

### - Student Assessment:

No.	Evaluation Method	Marks
1	Periodic exams	20
2	final examination	50
3	Practical examination	10
4	Student load	20
	<b>Total</b>	<b>100</b>

### 3. Facilities Required for Teaching and Learning:

No.	Facility	No.	Facility
1	Lecture classroom	4	Data show system
2	Presenter	5	Sound system
3	White board	6	Moodle

### 4- Administrative Constraints:

No.	Constraints
1	-

### 5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	73%

### 6- Course enhancement suggestions

No.	Suggestions
1	Mention to sources, references and web sites to update the general material of the course.
2	Adding new applications and practical examples
3	Increasing student interaction and participation when implementing the course

### 7- Comments from external evaluator(s) (if exists):

No.	Comments
1	Use of standardized teaching and learning model (update)
2	References need update (update)



## Annual Course Report: Computer Programming

### 8- What has been implemented of the student's suggestions in the previous year?

No.	Suggestions
1	Using online course material.
2	Provide training on how to use a new teaching technology in their classes.
3	Introducing recent topics to the course on a permanent and continuous basis

### 9- What has not been implemented of the suggestions (give reasons)?

No.	Suggestions	Reasons
1	All suggestions have been implemented	Not

### 10- What has been implemented from the action plan in the previous year?

No.	Areas of development	Description of development	Completion date	Person responsible
1	Review the course description and its vocabulary	Review and update Courses	2021-2022	Scientific departments
2	Changing the course description (texts and questions)	Review and update Courses		staff

### 11- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Updating the course's educational resources		2022-2023	staff
2	-Increase Field Visits -Increase Case studies implementation according to social's needed -increase students' projects	1- Divided Students' groups 2- Identify project names According social's needed and field visits 3- Using suitable program 4- Evaluation projects		Staff

**Course Coordinator: Dr. Amira El-Sonbaty**

**Head of Department: Assoc. Prof. Amal Behairy**

**Date of Approval: 2/2022**





## Annual Course Report: Inorganic Chemistry

### A. Basic Information

<b>Program Title</b>	Chemical engineering
<b>Department offering the Program</b>	Chemical engineering department
<b>Department Responsible for the Course</b>	Chemical engineering department
<b>Course Code</b>	CHE 111
<b>Year/ Level</b>	One
<b>Specialization</b>	Major
<b>Authorization data of course report</b>	2/2022
<b>Exam Committee Selection Rule</b>	Commissioning of the Institute of Management
<b>External Revision of Examination</b>	--
<b>Lecturers Number:</b>	1

Teaching hours	Lectures	Exercise	laboratory	Student's load
	2	-	2	5

### B. Specialized information:

#### 1. Statistics

Subject		Percentage
Students attending the course		100%
Students completing the course		100%
Results	Passed	80%
	Failed	20%
Grading of successful students	Excellent	5.7%
	Very Good	15.7%
	Good	22.9%
	Pass	35.7%

#### 2. Course Teaching:

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Comparative study for the following groups of materials with focusing on the compounds which are important to the industry Practical <ul style="list-style-type: none"> <li>Introduction in investigation for Acidic and basic Radical in sample salts</li> <li>Dilute HCL group</li> <li>Concentrated H<sub>2</sub>SO<sub>4</sub> group</li> </ul>	6	-	12	21
2	Chemical bonding	4	-	-	14



## Annual Course Report: Inorganic Chemistry

3	Representative elements (from Gr.1 to gr.7) Practical <ul style="list-style-type: none"> <li>Miscellaneous group</li> <li>Scheme of identification of acidic radical</li> <li>Investigation for Basic Radical in sample salts group Dil. HCL</li> <li>Dil. HCL + H<sub>2</sub>S group</li> <li>NH<sub>4</sub>OH + NH<sub>4</sub>Cl group</li> <li>NH<sub>4</sub>OH + NH<sub>4</sub>Cl + H<sub>2</sub>S group</li> </ul>	12	-	12	21
4	Nobel gases, Lanthanides and Actinides Practical <ul style="list-style-type: none"> <li>NH<sub>4</sub>OH + NH<sub>4</sub>Cl + (NH<sub>4</sub>)<sub>2</sub> CO<sub>3</sub> group</li> <li>Scheme of identification of basic Radical</li> </ul>	6	-	4	14
Total		28	-	28	70

- Topics taught as a percentage of the content specified: 86%
- Lecturers commitment of the course content: 95%

### Used Teaching and Learning Methods

No	Topics	Face-to-Face Lecture	Online Lecture	Flipped Classroom	Presentation and movies	Discussion	Problem solving	Brain storming	Projects	Site visits	Self-learning and Research	Cooperative	Discovering	Modeling	lab
1	Comparative study for the following groups of materials with focusing on the compounds which are important to the industry Practical <ul style="list-style-type: none"> <li>Introduction in investigation for Acidic and basic</li> </ul>	x	x								x				x



## Annual Course Report: Inorganic Chemistry

	Radical in sample salts • Dilute HCl group • Concentrated H <sub>2</sub> SO <sub>4</sub> group													
2	Chemical bonding	x	x								x			x
3	Representative elements (from Gr.1 to gr.7) Practical • Miscellaneous group • Scheme of identification of acidic radical • Investigation for Basic Radical in sample salts group Dil. HCl • Dil. HCl + H <sub>2</sub> S group • NH <sub>4</sub> OH + NH <sub>4</sub> Cl group • NH <sub>4</sub> OH + NH <sub>4</sub> Cl + H <sub>2</sub> S group	x	x								x			x
4	Nobel gases, Lanthanides and Actinides Practical • NH <sub>4</sub> OH + NH <sub>4</sub> Cl + (NH <sub>4</sub> ) <sub>2</sub> CO <sub>3</sub> group • Scheme of identification of basic Radical	x	x								x			x

### - Student Assessment:

No.	Evaluation method	Marks
1	Periodic exams	20
2	Student load	20
3	Practical Examination	10
4	Final term examination	75
Total		125



## Annual Course Report: Inorganic Chemistry

### 3. Facilities Required for Teaching and Learning:

No.	Facility	No.	Facility
1	Lecture classroom	5	Data show system
2	Presenter	6	Sound system
3	White board		
4	Lab		

### 4- Administrative Constraints:

Constraints
No constraints

### 5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	84%

### 6- Course enhancement suggestions

No.	Suggestions
1	Support the practical part with virtual laboratories

### 7- Comments from external evaluator(s) (if exists):

No.	Comments
1	Update references

### 8- What has been implemented of the student's suggestions in the previous year?

No.	Suggestions
1	Integrating work experiences with education.

### 9- What has not been implemented of the suggestions (give reasons)?

No.	Suggestions	Reasons
1	Transplant And Assess Pedagogy Utilizing Such Technologies To Enhance Students' Learning.	Inability to make cooperation protocols with companies

### 10- What has been implemented from the action plan in the previous year?

No.	Suggestions
1	Adding some scientific reference in the electronic library of the institute.

### 1\ - Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Studying practically how to detect the basic and acidic radicals of chemical compounds.	Make some scientific visits for petrochemical laboratories.	2022-2023	Institute management

Course Coordinator: Assoc.prof. Ramadan Elkateb  
Head of Department: Assoc.prof. Hend Elsayed Gadow  
Date of Approval: 2/2022



## Annual Course Report Mathematics 4 BAS121

### A. Basic Information:

<b>Program Title</b>	Chemical Engineering
<b>Department offering the Program</b>	Chemical Engineering Department
<b>Department Responsible for the Course</b>	Basic Science and Engineering Department
<b>Course Code</b>	BAS121
<b>Year/ Level</b>	Level 1
<b>Specialization</b>	Major
<b>Authorization data of course report</b>	7/2022
<b>Exam Committee Selection Rule</b>	Commissioning of the Institute of Management
<b>External Revision of Examination</b>	--
<b>Lecturers Number:</b>	1

Teaching hours	Lectures	Exercise	laboratory	Student's load
	2	2	-	5

### B. Specialized information:

#### 1. Statistics

Subject		No.	Percentage
Students attending the course		332	100
Students completing the course		267	80.4
Results	Passed	215	80.42
	Failed	52	19.58
Grading of successful students	Excellent	39	14.5
	Very Good	36	13.6
	Good	42	15.7
	Pass	98	36.7

#### 2. Course Teaching:

No.	Topics	Lecture	laboratory	Exercise	Student's load
1	Special functions	4	-	4	10
2	Fourier series periodic functions and Euler's laws	4	-	4	10



3	Fourier's integrations – solutions of the differential	4	-	4	10
4	equations by series - solving the partial differential equations using variables separation	4	-	4	10
5	Functions with complex variables – complex quantities algebra multiple values functions - the analytical functions and Koshi's theorem	4	-	4	10
6	complex series	4	-	4	10
7	Taylor and Lorant series - the zeros, unique points and the rest - the infinite series.	4	-	4	10
Total		28	-	28	70

- Topics taught as a percentage of the content specified: 100 %
- Lecturers commitment of the course content: 100 %
- Coverage of exam topics to course content: 100 %
- Used Teaching and Learning Methods

No.	Teaching Method	Choice
1	Lectures	√
2	Discussion Sessions	×
3	Information Collection from Different Sources	√
4	Practical	×
5	Research Assignment	x
6	Field Visits	×
7	Case Studies	x
8	Smart Sessions	×



**- Student Assessment:**

No.	Evaluation Method	Marks
1	Periodic exams	30
2	Student load	30
3	Final term examination	90
<b>Total</b>		<b>150</b>

**3. Facilities Required for Teaching and Learning:**

No.	Facility	Choice	No.	Facility	Choice
1	Lecture Classroom	√	7	Wireless Board	×
2	Lab Facilities	√	8	Presenter	×
3	White Board	√	9	Sound System	√
4	Data Show System	√	10	Wire-Internet	x
5	Visualizer	×	11	Wireless Internet	√
6	Smart Board	×	12	...	×

**4- Administrative Constraints:**

No.	Constraints
1	-

**5- Student Evaluation Result of the Course:**

No.	Evaluation Result
1	63.56%

**6- Course enhancement suggestions**

No.	Suggestions
1	Increase problems and exercises.

**7- Comments from external evaluator(s) (if exists):**

No.	Comments
1	NO Comment

**8- What has been implemented of the student's suggestions in the previous year?**

No.	Suggestions
1	Make all lectures available as pdf

**9- What has not been implemented of the suggestions (give reasons)?**

No.	Suggestions	Reasons
1	-----	----



**10- What has been implemented from the action plan in the previous year?**

No.	Areas of development	Description of development	Completion date	Person responsible
1	Online course	Make all lectures available as pdf	2021-2022	Dr. Samar Madian

**11- Action plan for next academic year**

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase Problems	Development and increase sheets	2022-2023	Dr. Samar Madian

**Course Coordinator:** Asso. prof. Samar Madian

**Head of Department:** Asso. prof. Amal Behairy

**Date of Approval:** 7/2022

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New Damietta

**Annual Course Report:  
Technical Report Writing  
(BAS122)**

**1- Basic Information:**

<b>Program Title</b>	Chemical Engineering
<b>Department offering the Program</b>	Chemical Engineering Department
<b>Department Responsible for the Course</b>	Basic Science and Engineering Department
<b>Course Code</b>	BAS122
<b>Year/ Level</b>	Level 1
<b>Specialization</b>	Major
<b>Authorization data of course report</b>	7/2022
<b>Exam Committee Selection Rule</b>	Commissioning of the Institute of Management
<b>External Revision of Examination</b>	--
<b>Lecturers Number:</b>	2

Teaching hours	Lectures	Exercise	laboratory	Student's load
	2	-	2	4

**B. Specialized information:**

**1. Statistics**

Subject		No.	Percentage
Students attending the course		266	100%
Students completing the course		266	100%
Results	Passed	252	94.7%
	Failed	14	5.26%
Grading of successful students	Excellent	38	14.3%
	Very Good	88	33.1%
	Good	71	26.7%
	Pass	55	20.7%



New Damietta

**Annual Course Report:  
Technical Report Writing  
(BAS122)**

**2. Course Teaching:**

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Introduction to technical writing. ❖ Define a report, Types of reports, Aim  ❖ Common concepts: clarity of Writing, Consistency ❖ Supporting Material Language rules (voice, tense) and Style	4	-	-	8
2	Common components of a technical report □ Organization of report sections Sections function and content	4	-	-	8
3	How to write a technical report ❖ Identify layout, Determine Audience ❖ Assign reference, add non text component ❖ Mechanics of report writing. Quantitative Writing	4	-	-	8
4	Equations, Tables and Figures	2	-	-	4
5	Literature citations	2	-	-	4
6	Using word processing for Writing Report	2	-	8	4
7	Creating slides with presentation graphics programs	2	-	4	4
8	MS Excel Application and power view report command	4	-	8	8
9	Database Report using MS SQL	4	-	8	8
<b>Total</b>		<b>28</b>	<b>-</b>	<b>28</b>	<b>56</b>

- Topics taught as a percentage of the content specified: 97%
- Lecturers commitment of the course content 97%
- Coverage of exam topics to course content: 97%



New Damietta

**Annual Course Report:  
Technical Report Writing  
(BAS122)**

**- Used Teaching and Learning Methods**

No.	Teaching Methods
1	Lectures
2	Discussion sessions
3	Information collection from different sources
4	practical
5	Research assignment
6	Case study

**- Student Assessment:**

No.	Evaluation method	Marks
1	Periodic exams	20
2	final examination	50
3	Practical	10
4	Student load	20
<b>Total</b>		<b>100</b>

**3. Facilities Required for Teaching and Learning:**

No.	Facility
1	Lecture classroom
2	Presentation
3	White board
4	Data show system
5	Wireless internet
6	Sound system

**4- Administrative Constraints:**

No.	Constraints
1	-

**5- Student Evaluation Result of the Course:**

No.	Evaluation Result
1	83.66%



New Damietta

**Annual Course Report:  
Technical Report Writing  
(BAS122)**

**6- Course enhancement suggestions**

No.	Suggestions
1	Increase some of scientific reference in the library of the institute.

**7- Comments from external evaluator(s) (if exists):**

No.	Comments
1	No comment

**8- What has been implemented of the student's suggestions in the previous year?**

No.	Suggestions
2	Using online course material.

**9- What has not been implemented of the suggestions (give reasons)?**

No.	Suggestions	Reasons
1	-----	

**10- What has been implemented from the action plan in the previous year?**

No.	Areas of development	Description of development	Completion date	Person responsible
1	Add online course material to student	-add course notes , assignments and Quizzes on Moodle	2021-2022	staff

**11- Action plan for next academic year**

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some of scientific reference In the library of the institute	Add more books in the electronic library of the institute	2022-2023	Dr. Hany Hashesh Dr. Mohammed ElBindary

**Course Coordinator: Dr. Hany Hashesh and Dr. Mohammed ElBindary**

**Head of Department: Assoc. Prof. Dr. Amal Bahiry**

**Date of Approval: 7/ 2022**



## Annual Course Report: Introduction of Information Technology

### A. Basic Information

<b>Program Title</b>	Chemical Engineering
<b>Department offering the Program</b>	Chemical Engineering Department
<b>Department Responsible for the Course</b>	Basic Science and Engineering Department
<b>Course Code</b>	BAS123
<b>Year/ Level</b>	Level 1
<b>Specialization</b>	Major
<b>Authorization data of course report</b>	7/2022
<b>Exam Committee Selection Rule</b>	Commissioning of the Institute of Management
<b>External Revision of Examination</b>	--
<b>Lecturers Number:</b>	1

Teaching hours	Lectures	Exercise	laboratory	Student's load
	2	2	-	4

### B. Specialized information:

#### 1. Statistics

Subject		No.	Percentage
Students attending the course		291	100%
Students completing the course		291	100%
Results	Passed	276	94.74%
	Failed	15	5.26%
Grading of successful students	Excellent	42	14.3%
	Very Good	96	33.1%
	Good	78	26.7%
	Pass	60	20.7%

#### 2. Course Teaching:

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Introduction to information systems	4	4	-	8
2	Software and hardware used in information systems	6	6	-	12
3	Communication and Networks	4	4	-	8
4	Computer Networking	6	6	-	12
5	The internet; the foundations, Resources and uses of the internet, Emphasizing	4	4	-	8



## Annual Course Report: Introduction of Information Technology

	practical skills for finding, Reading and authorizing materials				
6	Privacy Security and Ethics	4	4	-	4
7	Web Design using HTML Language and applications	-	-	-	4
<b>Total</b>		<b>28</b>	<b>28</b>	<b>-</b>	<b>56</b>

- Topics taught as a percentage of the content specified: 100 %
- Lecturers commitment of the course content: 90 %
- Coverage of exam topics to course content: 90 %

### - Used Teaching and Learning Methods

No.	Teaching Methods
1	Hybrid learning ( Lectures - ELearning)
2	Expeditionary Learning
3	Personalized Learning
4	Inquiry-based Learning
5	Cooperative learning

### - Student Assessment:

No.	Evaluation Method	Marks
1	Periodic exams	20
2	final examination	50
3	Practical examination	10
4	Student load	20
<b>Total</b>		<b>100</b>

### 3. Facilities Required for Teaching and Learning:

No.	Facility	No.	Facility
1	Lecture classroom	4	Data show system
2	Presenter	5	Sound system
3	White board	6	Moodle

### 4- Administrative Constraints:

No.	Constraints
1	-

### 5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	<b>82.99%</b>



## Annual Course Report: Introduction of Information Technology

### 6- Course enhancement suggestions

No.	Suggestions
1	Using online course material.
2	Provide training on how to use a new teaching technology in their classes.
3	Introducing recent topics to the course on a permanent and continuous basis

### 7- Comments from external evaluator(s) (if exists):

No.	Comments
1	References need update

### 8- What has been implemented of the student's suggestions in the previous year?

No.	Suggestions
1	Mention to sources, references and web sites to update the general material of the course.
2	Adding new applications and practical examples
3	Increasing student interaction and participation when implementing the course
4	-Increase Field Visits -Increase Case studies implementation according to social's needed -increase students' projects

### 9- What has not been implemented of the suggestions (give reasons)?

No.	Suggestions	Reasons
1	-----	-----

### 10- What has been implemented from the action plan in the previous year?

No.	Areas of development	Description of development	Completion date	Person responsible
1	Review the course description and its vocabulary	Review and update Courses	2021-2022	Scientific departments
2	Changing the course description (texts and questions)	Review and update Courses		staff

### 11- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Updating the course's educational resources		2022-2023	staff
2	-Increase Field Visits -Increase Case studies implementation	1- Divided Students' groups		Staff



## Annual Course Report: Introduction of Information Technology

	according to social's needed -increase students' projects	2- Identify project names According social's needed and field visits 3- Using suitable program 4- Evaluation projects		
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**Course Coordinator:** Dr. Amira El-Sonbaty  
**Head of Department:** Assoc. Prof. Dr. Amal Bahiry  
**Date of Approval:** 7/2022

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## Annual Course Report: Strength of Material

### A. Basic Information

<b>Program Title</b>	Chemical Engineering Program
<b>Department offering the Program</b>	Chemical Engineering Department
<b>Department Responsible for the Course</b>	Basic Science and Engineering Department
<b>Course Code</b>	BAS124
<b>Level / Semester</b>	level 1
<b>Specialization</b>	Major
<b>Authorization date of course report</b>	8/2022
<b>Exam Committee Selection Rule</b>	Commissioning of the Institute Management
<b>External Revision of Examination</b>	--
<b>Lecturers Number</b>	2

Teaching hours	Lectures	Exercise	laboratory	Student's load
	2	2	-	4

### B. Specialized information:

#### 1. Statistics

Subject	No.	Percentage
<b>Students attending the course</b>	154	100%
<b>Students completing the course</b>	154	100%
<b>Results</b>	<b>Passed</b>	137
	<b>Failed</b>	17
<b>Grading of successful students</b>	<b>Excellent</b>	32
	<b>Very Good</b>	28
	<b>Good</b>	43
	<b>Pass</b>	34

#### 2. Course Teaching:

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Simple states of stress and strain	2	2	-	4
2	Tension and compression stress	4	4	-	8
3	Shear stress in bolts	4	4	-	8
4	Bending and shearing stresses in beams	4	4	-	8
5	Torsion stresses	2	2	-	4
6	Deflection of Beams	4	4	-	8
7	Analysis of thin-walled pressure vessels	4	4	-	8
8	Analysis of plane stress	4	4	-	8
<b>Total</b>		<b>28</b>	<b>28</b>	<b>-</b>	<b>56</b>

- Topics taught as a percentage of the content specified: 100%
- Lecturers commitment of the course content 90%



## Annual Course Report: Strength of Material

- Coverage of exam topics to course content: 95%

- Used Teaching and Learning Methods

No.	Teaching Methods
1	Presentation of the course in digital material
2	Asking small groups to do assignments; each composed of low, medium, and high-performance students.

- Student Assessment:

No.	Evaluation Method	Marks
1	Periodic exams	20
2	Student load	20
3	Final-term examination	60
<b>Total</b>		<b>100</b>

### 3. Facilities Required for Teaching and Learning:

No.	Facility
1	Lecture classroom
2	seminar
3	White board
4	Data Show system

### 4- Administrative Constraints:

No.	Constraints
1	-

### 5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	79%

### 6- Course enhancement suggestions

No.	Suggestions
1	Transplant And Assess Pedagogy Utilizing Such Technologies To Enhance Students' Learning.

### 7- Comments from external evaluator(s) (if exists):

No.	Comments
1	-



### Annual Course Report: Strength of Material

#### 8- What has been implemented of the student's suggestions in the previous year?

No.	Suggestions
1	Improve lecture notes
2	Integrating work experiences with education.

#### 9- What has not been implemented of the suggestions (give reasons)?

No.	Suggestions	Reasons
1	-----	

#### 10- What has been implemented from the action plan in the previous year?

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some exercises	Increase some exercises	2021-2022	Course Coordinator

#### 11- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some of scientific reference in the library of the institute	Add more books in the electronic library of institute	2022-2023	Institute management

Course Coordinator: Prof. Dr. A. E. Kabel , Dr. Nesreen Elawadly

Head of Department: Assoc. Prof. Amal Behairy

Date of Approval: 8/2022

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## Annual Course Report: Organic Chemistry

### A. Basic Information

<b>Program Title</b>	Chemical Engineering
<b>Department offering the Program</b>	Chemical Engineering Department
<b>Department Responsible for the Course</b>	Chemical Engineering Department
<b>Course Code</b>	CHE121
<b>Year/ Level</b>	Level 1
<b>Specialization</b>	Major
<b>Authorization data of course report</b>	7/2022
<b>Exam Committee Selection Rule</b>	Commissioning of the Institute of Management
<b>External Revision of Examination</b>	--
<b>Lecturers Number:</b>	1

Teaching hours	Lectures	Exercise	laboratory	Student's load
	2	-	2	5

### B. Specialized information:

#### 1. Statistics

Subject		Percentage
Students attending the course		100%
Students completing the course		100%
Results	Passed	95.31%
	Failed	4.69%
Grading of successful students	Excellent	21.9%
	Very Good	18.8%
	Good	18.8%
	Pass	35.9%

#### 2. Course Teaching:

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Organic Chemistry: basic concepts Practical Identification of hydrocarbons	2	-	2	5
2	Alkanes Practical Identification of alcohols	2	-	2	5
3	Stereochemistry Practical Identification of phenols	4	-	4	10
4	Alkenes	4	-	4	10



## Annual Course Report: Organic Chemistry

	<b>Practical Identification of aldehydes and ketones</b>				
<b>5</b>	<b>Alkynes Practical Identification of aliphatic carboxylic acids</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>5</b>
<b>6</b>	<b>Aromatic Compounds Practical Identification of aromatic</b>	<b>4</b>	<b>-</b>	<b>4</b>	<b>10</b>
<b>7</b>	<b>Alcohols Practical Identification of salt of carboxylic acids</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>5</b>
<b>8</b>	<b>Ethers Practical Identification of amines</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>5</b>
<b>9</b>	<b>Aldehydes and Ketones Practical Identification of carbohydrates</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>5</b>
<b>10</b>	<b>Carboxylic Acids and Their Derivatives Practical Scheme for identification of unknown organic compounds</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>5</b>
<b>11</b>	<b>Amines and polyfunctional compounds Practical Revision and practical exam</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>5</b>
<b>Total</b>		<b>28</b>	<b>-</b>	<b>28</b>	<b>70</b>

- Topics taught as a percentage of the content specified: **90%**
- Lecturers commitment of the course content: **95%**

**Used Teaching and Learning Methods**



## Annual Course Report: Organic Chemistry

No	Topics	Face-to-Face Lecture	Online Lecture	Flipped Classroom	Presentation and movies	Discussion	Problem solving	Brain storming	Projects	Site visits	Self-learning and Research	Cooperative	Discovering	Modeling	lab
1	Organic Chemistry: basic concepts Practical Identification of hydrocarbons	x	x			x					x				
2	Alkanes Practical Identification of alcohols	x	x			x									
3	Stereochemistry Practical Identification of phenols	x	x			x	x				x				
4	Alkenes Practical Identification of aldehydes and ketones	x	x			x	x								
5	Alkynes Practical Identification of aliphatic carboxylic acids	x	x			x					x				
6	Aromatic Compounds Practical Identification of aromatic	x	x			x	x								
7	Alcohols Practical	x	x			x	x								



## Annual Course Report: Organic Chemistry

	Identification of salt of carboxylic acids														
8	Ethers Practical Identification of amines	x	x			x	x				x				
9	Aldehydes and Ketones Practical Identification of carbohydrates	x	x			x	x				x				
10	Carboxylic Acids and Their Derivatives Practical Scheme for identification of unknown organic compounds	x	x			x	x								
11	Amines and polyfunctional compounds Practical Revision and practical exam	x	x			x					x				

### - Student evaluation:

No.	Evaluation method	Marks
1	Periodic exams	30
2	Student load	30
3	Practical Examination	15
4	Final term examination	75
Total		150

### 3. Facilities Required for Teaching and Learning:

No.	Facility	No.	Facility
1	Lecture classroom	5	Data show system
2	Presenter	6	Sound system
3	White board	7	Wireless internet
4	Lab		



## Annual Course Report: Organic Chemistry

### 4- Administrative Constraints:

No.	Constraints
1	-

### 5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	65.79%

### 6- Course enhancement suggestions

No.	Suggestions
1	Increasing scientific visits for petrochemical laboratories.
2	Transplant And Assess Pedagogy Utilizing Such Technologies To Enhance Students' Learning.

### 7- Comments from external evaluator(s) (if exists):

No.	Comments
1	No Comments from external evaluator

### 8- What has been implemented of the student's suggestions in the previous year?

No.	Suggestions
1	Introducing more varieties of real models of industrial applications.

### 9- What has not been implemented of the suggestions (give reasons)?

No.	Suggestions	Reasons
1	Make some scientific visits for petrochemical laboratories.	Inability to make cooperation protocols with companies

### 10-What has been implemented of the action plan in the previous year?

No.	Suggestions
1	Introduce virtual lab techniques by using suitable videos

### 11- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Make some scientific visits	Make some scientific visits for petrochemical laboratories and make cooperation protocols with companies.	2022-2023	Associate prof. Khaled Samir





## Annual Course Report: Organic Chemistry

**Course Coordinator:** Associate prof. Khaled Samir

**Head of Department:** Associate prof. Hend Elsayed Gadow

**Date of Approval:** 7/2022

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## Annual Course Report: Physical Chemistry

### A. Basic Information

<b>Program Title</b>	Chemical Engineering
<b>Department offering the Program</b>	Chemical Engineering Department
<b>Department Responsible for the Course</b>	Chemical Engineering Department
<b>Course Code</b>	CHE 122
<b>Year/ Level</b>	One
<b>Specialization</b>	Major
<b>Authorization data of course report</b>	7/2022
<b>Exam Committee Selection Rule</b>	Commissioning of the Institute of Management
<b>External Revision of Examination</b>	--
<b>Lecturers Number:</b>	1

Teaching hours	Lectures	Exercise	laboratory	Student's load
	2	-	2	3

### B. Specialized information:

#### 1. Statistics

Subject		Percentage
Students attending the course		100%
Students completing the course		100%
Results	Passed	96.67%
	Failed	3.33%
Grading of successful students	Excellent	35%
	Very Good	26.7%
	Good	20%
	Pass	15%

#### 2. Course Teaching:

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Gases (Ideal gas, real gas)	4	-	-	6
2	Solutions (true and colloidal solutions) Practical □ The nature of Copper – Ammonia Complex in aqueous Solution	4	-	4	6

# Annual Course Report: Physical Chemistry

<b>3</b>	<b>Chemical kinetics (Rate of reaction)</b> <b>Practical</b> <ul style="list-style-type: none"> <li>• Study of Homogeneous Catalytic Decomposition of H<sub>2</sub>O<sub>2</sub> by Initial Rate Method</li> <li>• Catalytic decomposition H<sub>2</sub>O<sub>2</sub></li> <li>• Determination of The order of the reaction between H<sub>2</sub>O<sub>2</sub> and HI</li> </ul>	<b>10</b>	<b>-</b>	<b>20</b>	<b>15</b>
<b>4</b>	<b>Chemical equilibrium</b>	<b>4</b>	<b>-</b>	<b>-</b>	<b>6</b>
<b>5</b>	<b>Surface chemistry (Adsorption)</b> <b>Practical</b> □Adsorption of Oxalic Acid on Charcoal	<b>4</b>	<b>-</b>	<b>4</b>	<b>6</b>
<b>6</b>	<b>Chemical thermodynamic</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>3</b>
<b>Total</b>		<b>28</b>	<b>-</b>	<b>28</b>	<b>42</b>

- Topics taught as a percentage of the content specified: 90%
- Lecturers commitment of the course content: 95%

### Used Teaching and Learning Methods

[illegible]



## Annual Course Report: Physical Chemistry

3	<b>Chemical kinetics</b> (Rate of reaction) <b>Practical</b> • Study of Homogeneous Catalytic Decomposition of H <sub>2</sub> O <sub>2</sub> by Initial Rate Method • Catalytic decomposition H <sub>2</sub> O <sub>2</sub> • Determination of The order of the reaction between H <sub>2</sub> O <sub>2</sub> and HI	x	x			x									x
4	<b>Chemical equilibrium</b>														
5	<b>Surface chemistry</b> (Adsorption) <b>Practical</b> □ Adsorption of Oxalic Acid on Charcoal	x	x												x
6	<b>Chemical thermodynamic</b>	x	x			x									

### - Student Assessment:

No.	Evaluation method	Marks
1	Periodic exams	30
2	Student load	30
3	Practical Examination	15
4	Final term examination	75
Total		150

### 3. Facilities Required for Teaching and Learning:

No.	Facility	No.	Facility s
1	Lecture classroom	5	Data show system
2	Presenter	6	Sound system
3	White board		
4	Lab		

### 4- Administrative Constraints:



## Annual Course Report: Physical Chemistry

Constraints
No constraints

### 5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	83.77%

### 6- Course enhancement suggestions

No.	Suggestions
1	Simulate a model for any type of reaction.

### 7- Comments from external evaluator(s) (if exists):

No.	Comments
1	Topics are short in course specs that should be modified.

### 8- What has been implemented of the student's suggestions in the previous year?

No.	Suggestions
1	Provide training on how to use a new teaching technology in their classes.

### 9- What has not been implemented of the suggestions (give reasons)?

No.	Suggestions	Reasons
1	Using online course material.	Needing of extra internet system and smart boards

### 10- What has been implemented from the action plan in the previous year?

No.	Suggestions
1	Increase self-study material

### 11- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Studying practically how to determine the reaction order and half life time for chemical reactions.	Make some scientific visits for petrochemical laboratories.	2022-2023	Institute management

Course Coordinator: Dr. Mohamed Fakeeh

Head of Department: Assoc.prof. HEND Elsayed Gadow



## **Annual Course Report: Physical Chemistry**

**Date of Approval: 7/2022**



قسم الهندسة الكيميائية  
Department of Chemical Engineering



وزارة التعليم العالي  
المعهد العالي للهندسة والتكنولوجيا  
بدمياط الجديدة

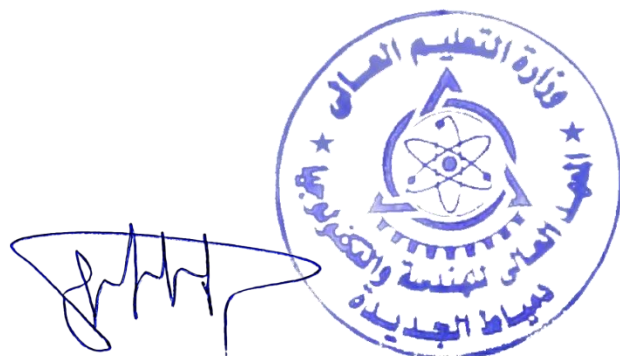
## تقارير المقررات قسم الهندسة الكيميائية

إعتماد مجلس القسم لتقارير المقررات قسم الهندسة  
الكيميائية

بتاريخ 2022/7/18

إعتماد المجلس العلمي لتقارير المقررات قسم الهندسة  
الكيميائية

بتاريخ 2022/7/25




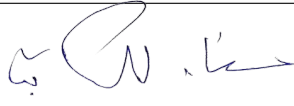



وزارة التعليم العالي  
المعهد العالي للهندسة والتكنولوجيا  
بدمياط الجديدة

2021- 2022

## تقارير المقررات لقسم الهندسة الكيميائية



Head of the department	Quality Assurance Unit Manager	Dean of the institute
		
Assoc.Prof.Dr./ Henda Elsayed Gadow	Assoc.Prof.Dr./ Ramadan Abdelghany Elkateb	Prof.Dr./ Osami Elsaeed Rageh





وزارة التعليم العالي  
المعهد العالي للهندسة والتكنولوجيا  
بدمياط الجديدة



## الفرقة الثانية



## Annual Course Report Engineering Probability and Statistics BAS211

### A. Basic Information:

<b>Program Title</b>	Chemical Engineering
<b>Department offering the Program</b>	Chemical Engineering Department
<b>Department Responsible for the Course</b>	Basic Science and Engineering Department
<b>Course Code</b>	BAS 211
<b>Year/ Level</b>	Level 2
<b>Specialization</b>	Major
<b>Authorization data of course report</b>	3/2022
<b>Exam Committee Selection Rule</b>	Commissioning of the Institute of Management
<b>External Revision of Examination</b>	--
<b>Lecturers Number:</b>	1

Teaching hours	Lectures	Exercise	laboratory	Student's load
	2	2	-	4

### B. Specialized information:

#### 1. Statistics

Subject		No.	Percentage
Students attending the course		195	100%
Students completing the course		195	100%
Results	Passed	183	93.85%
	Failed	12	6.15%
Grading of successful students	Excellent	56	28.7%
	Very Good	49	25.1%
	Good	38	19.5%
	Pass	40	20.5%

#### 2. Course Teaching:

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Probability theory.	4	4	-	12
2	Discrete and continuous probability distributions.	6	6	-	12
3	Statistics in engineering.	4	4	-	10



**Annual Course Report**  
**Engineering Probability and Statistics**  
**BAS211**

4	Descriptive Statistics Sampling distributions. Estimation and confidence intervals	2	2	-	12
5	Hypothesis testing. Simple regression.	12	12	-	10
<b>Total</b>		<b>28</b>	<b>28</b>	<b>-</b>	<b>56</b>

- Topics taught as a percentage of the content specified: 90 %
- Lecturers commitment of the course content: 100 %
- Coverage of exam topics to course content: 90 %
- Used Teaching and Learning Methods

No.	Teaching Method	Choice
1	Lectures	√
2	Discussion Sessions	×
3	Information Collection from Different Sources	√
4	Practical	×
5	Research Assignment	×
6	Field Visits	×
7	Case Studies	×
8	Smart Sessions	×

**- Student Assessment:**

No.	Evaluation Method	Marks
1	Periodic exams	20
2	Student load	20
3	Final term examination	60
<b>Total</b>		<b>100</b>

**3. Facilities Required for Teaching and Learning:**

No.	Facility	Choice	No.	Facility	Choice
1	Lecture Classroom	√	7	Wireless Board	×
2	Lab Facilities	√	8	Presenter	×
3	White Board	√	9	Sound System	√
4	Data Show System	√	10	Wire-Internet	×
5	Visualizer	×	11	Wireless Internet	√
6	Smart Board	×	12	...	



**Annual Course Report**  
**Engineering Probability and Statistics**  
**BAS211**

**4- Administrative Constraints:**

No.	Constraints
1	-

**5- Student Evaluation Result of the Course:**

No.	Evaluation Result
1	79.85%

**6- Course enhancement suggestions**

No.	Suggestions
1	Increase problems and exercises.

**7- Comments from external evaluator(s) (if exists):**

No.	Comments
1	NO comment

**8- What has been implemented of the student's suggestions in the previous year?**

No.	Suggestions
1	Make all lectures available as pdf

**9- What has not been implemented of the suggestions (give reasons)?**

No.	Suggestions	Reasons
1	All suggestions have been implemented	-----

**10- What has been implemented from the action plan in the previous year?**

No.	Areas of development	Description of development	Completion date	Person responsible
1	Online course	Make all lectures available as pdf	2021-2022	Dr Mohamed Shokery

**11- Action plan for next academic year**

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase Problems	Development and increase sheets	2022-2023	Dr Samar Madin

**Course Coordinator: Dr: Samar Madin**

**Head of Department: Associate prof. Amal Behary**

**Date of Approval: 3/2022**

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## Annual Course Report: Fluid Mechanics

### A. Basic Information

<b>Program Title</b>	Chemical Engineering
<b>Department offering the Program</b>	Chemical Engineering Department
<b>Department Responsible for the Course</b>	Basic Science and Engineering Department
<b>Course Code</b>	BAS 212
<b>Year/ Level</b>	Level 2
<b>Specialization</b>	Major
<b>Authorization data of course report</b>	3/2022
<b>Exam Committee Selection Rule</b>	Commissioning of the Institute of Management
<b>External Revision of Examination</b>	--
<b>Lecturers Number:</b>	1

Teaching hours	Lectures	Exercise	laboratory	Student's load
	2	1	1	4

### B. Specialized information:

#### 1. Statistics

Subject	No.	Percentage
<b>Students attending the course</b>	195	100.0%
<b>Students completing the course</b>	195	100%
<b>Results</b>	Passed	193
	Failed	2
<b>Grading of successful students</b>	Pass	42
	Good	46
	Very Good	70
	Excellent	35

#### 2. Course Teaching:

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Fluid properties, fluid statics, kinematics	2	2	2	6
2	Fluid dynamics including energy and Momentum equations	4	2	2	8
3	Dimensional analysis, Laminar flow, Turbulent flow and its applications	2	2	2	6
4	Forces on immersed bodies, Introduction to compressible flow	4	2	2	8
5	Applications to filtration and fluidization	4	2	2	8



Annual Course Report: **Fluid Mechanics**

6	Laboratory course in Fluid Mechanics includes experiments on venture-meter, friction losses in pipes	6	2	2	10
7	Center of pressure, Flow measuring apparatus, multi-pump test (Pump characteristics) and losses in piping systems	6	2	2	10
<b>Total</b>		<b>28</b>	<b>14</b>	<b>14</b>	<b>56</b>

- Topics taught as a percentage of the content specified: **94%**

- Lecturers commitment of the course content: **96 %**

- Used Teaching and Learning Methods

No.	Teaching Methods	Choice
1	Face-to-Face Lecture	√
2	Discussion sessions	√
3	Information collection from different sources	√
4	Research assignment	√
5	Online Lecture	√
6	Problem solving	√
7	Brain storming	√
9	Self-learning and Research	√
10	Lab	√

- Student Assessment:

No.	Evaluation method	Marks
1	Periodic exams	30
2	final examination	75
3	Practical examination	15
4	Student load	30
<b>Total</b>		<b>150</b>

**3. Facilities Required for Teaching and Learning:**

No.	Facility	Choice
1	Lecture Classroom	√
2	White Board	√
3	Data Show System	√
4	Electronic learning model	√

No.	Facility	Choice
5	Sound System	√
6	Wire-Internet	√
7	Wireless Internet	√
8	Presenter	√



Annual Course Report: **Fluid Mechanics**

**4- Administrative Constraints:**

No.	Constraints
1	-

**5- Student Evaluation Result of the Course:**

No.	Evaluation Result
1	90%

**6- Course enhancement suggestions**

No.	Suggestions
1	Improve lecture notes
2	Integrating work experiences with education.

**7- Comments from external evaluator(s) (if exists):**

No.	Comments
1	-

**8- What has been implemented of the student's suggestions in the previous year?**

No.	Suggestions
1	Using online course material.

**9- What has not been implemented of the suggestions (give reasons)?**

No.	Suggestions	Reasons
1	More field visits for more learning about the course	Increasing understanding of the course

**10- What has been implemented from the action plan in the previous year?**

No.	Areas of development	Description of development	Completion date	Person responsible
1	Teaching methods	Make a visit to the fluid mechanics lab in the Ministry of Water Resources and Irrigation	2021-2022	Assoc. Prof. Mohamed Gabr

**11- Action plan for next academic year**

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some of scientific reference in the library of the institute	Add more books in the electronic library of institute	2022-2023	Assoc. Prof. Mohamed Gabr

Course Coordinator: Assoc. Prof. Mohamed Gabr  
Head of Department: Assoc. Prof. Amal Elbehairy.  
Date of Approval: 3/2022



**Annual Course Report**  
**Engineering Economy**  
**BAS213**

**A. Basic Information**

<b>Program Title</b>	Chemical engineering Program
<b>Department offering the Program</b>	Chemical engineering Department
<b>Department Responsible for the Course</b>	Basic Science and Engineering Department
<b>Title course</b>	Engineering Economy
<b>Course Code</b>	BAS213
<b>Year/ Level</b>	Level 2
<b>Specialization</b>	Major
<b>Authorization data of course report</b>	3/2022
<b>Exam Committee Selection Rule</b>	Commissioning of the Institute Management
<b>External Revision of Examination</b>	--
<b>Lecturers Number:</b>	2

Teaching hours	Lectures	Exercise	laboratory	Student's load
	2	1	-	3

**B. Specialized information:**

**1. Statistics**

Subject	No.	Percentage
<b>Students attending the course</b>	195	100%
<b>Students completing the course</b>	195	100%
<b>Results</b>	<b>Passed</b>	183
	<b>Failed</b>	12
<b>Grading of successful students</b>	<b>Excellent</b>	56
	<b>Very Good</b>	49
	<b>Good</b>	48
	<b>Pass</b>	30

**2. Course Teaching:**

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Basic concepts of engineering economy	4	2	-	6
2	Break even analysis	4	2	-	6
3	Time value of money	6	3	-	9
4	Depreciation and replacement analysis	4	2	-	6
5	Selection between alternatives	6	3	-	9
6	Productivity	4	2	-	6
<b>Total</b>		<b>28</b>	<b>14</b>	<b>-</b>	<b>42</b>





Annual Course Report  
Engineering Economy  
BAS213

- Topics taught as a percentage of the content specified: 100 %
- Lecturers commitment of the course content: 90 %
- Coverage of exam topics to course content: 90 %
- Used Teaching and Learning Methods

No.	Teaching Methods
1	Hybrid learning ( Lectures - ELearning)
2	Expeditionary Learning
3	Personalized Learning
4	Inquiry-based Learning
5	Cooperative learning

- Student Assessment:

No.	Evaluation method	Marks
1	Periodic exams	20
2	Student load	20
3	Final-term examination	60
Total		100

3. Facilities Required for Teaching and Learning:

No.	Facility	No.	Facility
1	Lecture classroom	4	Data show system
2	Presenter	5	Sound system
3	White board	6	Moodle

4- Administrative Constraints:

No.	Constraints
1	-

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	67.9%

6- Course enhancement suggestions

No.	Suggestions
1	Adding new applications and practical examples
2	Increasing student interaction and participation when implementing the course
3	-Increase Case studies implementation according to social's needed

7- Comments from external evaluator(s) (if exists):

No.	Comments
1	References need update
2	The previous prerequisite is not mentioned



**Annual Course Report**  
**Engineering Economy**  
**BAS213**

**8- What has been implemented of the student's suggestions in the previous year?**

No.	Suggestions
1	Provide training on how to use a new teaching technology in their classes.
2	Introducing recent topics to the course on a permanent and continuous basis
3	Mention to sources, references and web sites to update the general material of the course.

**9- What has not been implemented of the suggestions (give reasons)?**

No.	Suggestions	Reasons
1	-----	-----

**10- What has been implemented from the action plan in the previous year?**

No.	Areas of development	Description of development	Completion date	Person responsible
1	Review the course description and its vocabulary	Review and update Courses	2021-2022	Scientific departments
2	Changing the course description (texts and questions)	Review and update Courses		staff

**11- Action plan for next academic year**

No.	Areas of development	Description of development	Completion date	Person responsible
1	Updating the course's educational resources		2022-2023	staff
2	-Increase Case studies implementation according to social's needed	1- Divided Students' groups 2- Evaluation projects		Staff

**Course Coordinator:** Dr. Rania H.Elabd

Dr.Hany Hashish

**Head of Department:** Assoc.prof. Amal Elbehairy

**Date of Approval:** 3/2022



## Annual Course Report: Heritage of Egyptian Literature

### A. Basic Information

<b>Program Title</b>	Chemical Engineering
<b>Department offering the Program</b>	Chemical Engineering Department
<b>Department Responsible for the Course</b>	Chemical Engineering Department
<b>Course Code</b>	BAS214
<b>Year/ Level</b>	Level 2
<b>Specialization</b>	Major
<b>Authorization data of course report</b>	2/2022
<b>Exam Committee Selection Rule</b>	Commissioning of the Institute of Management
<b>External Revision of Examination</b>	--
<b>Lecturers Number:</b>	1

Teaching hours	Lectures	Exercise	laboratory	Student's load
	2	-	-	3

### B. Specialized information:

#### 1. Statistics

Subject		No.	Percentage
Students attending the course		48	100%
Students completing the course		48	100%
Results	Passed	48	100%
	Failed	0	0%
Grading of successful students	Excellent	34	70.8%
	Very Good	12	25%
	Good	2	4.2%
	Pass	0	0%

#### 2. Course Teaching:

No.	Topics	Lecture	Exercise	laboratory	Student load
1	تعريف الطالب بالتميز الإقليمي لمصر في العصور القديمة والوسطى والحديثة وأثر عبقرية المكان على الفكر والوعي المصري وتجلياته في التراث الأدبي شعرا ونثرا من خلال الدرس التاريخي والنصي للأدب المصري في مراحله المختلفة.	4	-	-	6



## Annual Course Report: Heritage of Egyptian Literature

2	مصر وتراثها الأدبي من منظور حضاري وإبداعي - المكتبة التراثية المصرية من منظور تاريخي متجدد - دراسة مفهوم وضعية العصور الوسطى في مصر والفرق بينها وبين العصور الوسطى في أوروبا - التراث الجغرافي المصري وأدب الرحلة في كتابات مصرية	6	-	-	9
3	التأليف الموسوعي في مصر والصياغة الأدبية في فن الموسوعات - الظواهر الأدبية الغالبة على الأدب المصري - مناهج دراسة التراث الأدبي المصري ودلالاته - مدارس التأليف والإبداع في تاريخ الفكر المصري	8	-	-	12
4	- مجالات الإبداع في الشعر المصري (الطبيعة المصرية - أدب الحروب الموضوعات الجديدة والبيئة المصرية) - مدارس الكتابة الفنية على المستوى الرسمي وغيرها	6	-	-	9
5	- تتبع التطبيق على النص والتحليل من خلال أبرز شعراء وكتاب التراث المصري من أمثال ابن نباته المصري وابن سناء الملك وصولاً إلى أدوار الدكتور محمد كامل حسين والأستاذ أمين الخولي والدكتور جمال حمدان في تناول التراث الأدبي المصري بالتحليل والدراسة المنهجية حول عبقرية المكان.	4	-	-	6
<b>Total</b>		<b>28</b>	<b>-</b>	<b>-</b>	<b>42</b>

- Topics taught as a percentage of the content specified: 95%
- Lecturers commitment of the course content: 95%

### Used Teaching and Learning Methods

No	Topics	Face-to-Face Lecture	Online Lecture	Flipped Classroom	Presentation and movies	Discussion	Problem solving	Brain storming	Projects	Site visits	Self-learning and Research	Cooperative	Discovering	Modeling	lab
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## Annual Course Report: Heritage of Egyptian Literature

1	تعريف الطالب بالتميز الإقليمي لمصر في العصور القديمة والوسطى والحديثة وأثر عقريّة المكان على الفكر والوعي المصري وتجلياته في التراث الأدبي شعرا ونثرا من خلال الدرس التاريخي والنصي للأدب المصري في مراحلته المختلفة.	X	X			X								
2	مصر وتراثها الأدبي من منظور حضاري وإبداعي - المكتبة التراثية المصرية من منظور تاريخي متجدد - دراسة مفهوم وضعية العصور الوسطى في مصر والفرق بينها وبين العصور الوسطى في أوروبا - التراث الجغرافي المصري وأدب الرحلة في كتابات مصرية	X	X			X								
3	التأليف الموسوعي في مصر والصياغة الأدبية في فن الموسوعات - الظواهر الأدبية الغالبة على الأدب المصري - مناهج دراسة التراث الأدبي المصري ودلالاته - مدارس التأليف والإبداع في تاريخ الفكر المصري	X	X	X		X					X			
4	- مجالات الإبداع في الشعر المصري (الطبيعة المصرية - أدب الحروب الموضوعات الجديدة والبيئة المصرية) - مدارس الكتابة الفنية على المستوى الرسمي وغيرها	X	X			X					X			



## Annual Course Report: Heritage of Egyptian Literature

5	- تتبع التطبيق على النص والتحليل من خلال أبرز شعراء وكتاب التراث المصري من أمثال ابن نباته المصري وابن سناء الملك وصولاً إلى أدوار الدكتور محمد كامل حسين والأستاذ أمين الخولي والدكتور جمال حمدان في تناول التراث الأدبي المصري بالتحليل والدراسة المنهجية حول عبقرية المكان.	x	x			x	x												
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### - Student Assessment:

No.	Evaluation method	Marks
1	Periodic exams	10
2	Student load	10
3	Final term examination	30
Total		50

### 3. Facilities Required for Teaching and Learning:

No.	Facility	No.	Facility
1	Lecture classroom	4	Data show system
2	Presenter	5	Sound system
3	White board		

### 4- Administrative Constraints:

No.	Constraints
1	There are no constraints

### 5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	90.18%

### 6- Course enhancement suggestions

No.	Suggestions
1	Make all lectures available as videos and pdf.



## Annual Course Report: Heritage of Egyptian Literature

### 7- Comments from external evaluator(s) (if exists):

No.	Comments
1	References need update

### 8- What has been implemented of the student's suggestions in the previous year?

No.	Suggestions
1	-

### 9- What has not been implemented of the suggestions (give reasons)?

No.	Suggestions	Reasons
1	-	-

### 10- What has been implemented of the action plan in the previous year?

No.	Suggestions
1	-

### 11- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Self learning	Enhance searching	2022-2023	Dr. Mohammed ElBindary

Course Coordinator: Dr. Mohammed El-Bindary

Head of Department: Assoc. Prof. Dr. Hend Gadow

Date of Approval: 2/2022



## Annual Course Report: Chemical Engineering Principles I

### A. Basic Information

<b>Program Title</b>	Chemical Engineering
<b>Department offering the Program</b>	Chemical Engineering Department
<b>Department Responsible for the Course</b>	Chemical Engineering Department
<b>Course Code</b>	CHE211
<b>Year/ Level</b>	Level 2
<b>Specialization</b>	Major
<b>Authorization data of course report</b>	4/2022
<b>Exam Committee Selection Rule</b>	Commissioning of the Institute of Management
<b>External Revision of Examination</b>	--
<b>Lecturers Number:</b>	1

Teaching hours	Lectures	Exercise	laboratory	Student's load
	2	2	-	5

### B. Specialized information:

#### 1. Statistics

Subject		Percentage
Students attending the course		100%
Students completing the course		100%
Results	Passed	93.75%
	Failed	6.25%
Grading of successful students	Excellent	10.4%
	Very Good	31.2%
	Good	25%
	Pass	27.1%

#### 2. Course Teaching:

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Units and dimensions	4	4	-	8
2	Basic concepts of material balances	8	8	-	16
3	Balances on non-reactive and reactive processes	12	12	-	24
4	Application of material balances on unit operations.	4	4	-	8
Total		28	28	-	56

- Topics taught as a percentage of the content specified: 89%
- Lecturers commitment of the course content: 94%





## Annual Course Report: Chemical Engineering Principles I

### - Used Teaching and Learning Methods

No	Topics	Face to face	Online lecture	Flipped Classroom	Presentation and movies	Discussion	Problem solving	Brain storming	Projects	Site Visits	Self learning and research	Cooperative	Discovering	Modeling	Lab
1	Dimensions and units	x	x			x	x								
2	Basic concepts of material balances	x	x			x	x	x							
3	Balances on non-reactive and reactive processes	x	x			x	x	x							
4	Application of material balances on unit operations.	x	x			x	x	x							

### - Student evaluation:

No.	Evaluation method	Marks
1	Periodic exams	30
2	Student load	30
3	Final term examination	90
Total		150

### 3. Facilities Required for Teaching and Learning:

No.	Facility	No.	Facility
1	Lecture classroom	5	Data show system
2	Presenter	6	Sound system
3	White board		
4	Lab		



## Annual Course Report: Chemical Engineering Principles I

### 4- Administrative Constraints:

No.	Constraints
1	-

### 5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	75.44%

### 6- Course enhancement suggestions

No.	Suggestions
1	Opening the field for brainstorming and discussion about the topics of the curriculum.
2	Integrating work experiences with education.
3	Introducing real models of industrial applications.

### 7- Comments from external evaluator(s) (if exists):

No.	Comments
1	Use of standardized teaching and learning model

### 8- What has been implemented of the student's suggestions in the previous year?

No.	Suggestions
1	Provide training on how to use a new teaching technology in their classes.

### 9- What has not been implemented of the suggestions (give reasons)?

No.	Suggestions	Reasons
1	Using online course material.	Needing of extra internet system and smart boards

### 10-What has been implemented of the action plan in the previous year?

No.	Suggestions
1	new techniques were added

### 11- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Review writing references for courses in a uniform style	references for course in a uniform style	2022-2023	Dr. Sohier Abo Bakr

Course Coordinator: Dr. Sohier Abo Bakr

Head of Department: Assoc.prof. Hend Elsayed Gadow

Date of Approval: 4/2022



## Annual Course Report: material science and metallurgy

### A. Basic Information

<b>Program Title</b>	Chemical Engineering
<b>Department offering the Program</b>	Chemical Engineering Department
<b>Department Responsible for the Course</b>	Chemical Engineering Department
<b>Course Code</b>	CHE 212
<b>Year/ Level</b>	Two
<b>Specialization</b>	Major
<b>Authorization data of course report</b>	2/2022
<b>Exam Committee Selection Rule</b>	Commissioning of the Institute of Management
<b>External Revision of Examination</b>	--
<b>Lecturers Number:</b>	1

Teaching hours	Lectures	Exercise	laboratory	Student's load
	2	2	-	3

### B. Specialized information:

#### 1. Statistics

Subject		Percentage
Students attending the course		100%
Students completing the course		100%
Results	Passed	95.83%
	Failed	4.17%
Grading of successful students	Excellent	31.2%
	Very Good	20.8%
	Good	20.8%
	Pass	22.9%

#### 2. Course Teaching:

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Structure of metals and alloys(crystalline structure of metals-types of deformation)	10	10	-	15
2	glasses and ceramics of Structure (theories and applications)	4	4	-	6
3	Structure of polymers	4	4	-	6
4	Thermodynamics of condensed phase(equilibrium phase diagrams of binary systems, the iron carbon phase diagram, phase transformations in steel)	4	4	-	6
5	metals and alloys(Casting- Melting- Forming Operations- Solidification)	6	6	-	9
Total		28	28	-	42



## Annual Course Report: material science and metallurgy

- Topics taught as a percentage of the content specified: 85%
- Lecturers commitment of the course content: 95%

### Used Teaching and Learning Methods

No	Topics	Face-to-Face Lecture	Online Lecture	Flipped Classroom	Presentation and movies	Discussion	Problem solving	Brain storming	Projects	Site visits	Self-learning and Research	Cooperative	Discovering	Modeling	lab
1	Structure of metals and alloys(crystalline structure of metals-types of deformation)	x	x			x					x				
2	Structure of ceramics and glasses (theories and applications)	x	x	X		x					x				
3	Structure of polymers	x	x			x					x				
4	Thermodynamics of condensed phase(equilibrium phase diagrams of binary systems, the iron carbon phase diagram, phase transformations in steel)	x	x			x	X								
5	metals and alloys(Casting-Melting- Forming Operations-Solidification)	x	x			x	X								



## Annual Course Report: material science and metallurgy

### - Student Assessment:

No.	Evaluation method	Marks
1	Periodic exams	20
2	Student load	20
3	Final term examination	60
<b>Total</b>		<b>100</b>

### 3. Facilities Required for Teaching and Learning:

No.	Facility	No.	Facility
1	Lecture classroom	4	Data show system
2	Presenter	5	Sound system
3	White board		

### 4- Administrative Constraints:

No.	Constraints
1	-

### 5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	66%

### 6- Course enhancement suggestions

No.	Suggestions
1	Increase the problems in the course

### 7- Comments from external evaluator(s) (if exists):

No.	Comments
1	This course isn't followed to define the percentage of credit hours for communication hours.

### 8- What has been implemented of the student's suggestions in the previous year?

No.	Suggestions
1	Improve lecture notes
2	Integrating work experiences with education.

### 9- What has not been implemented of the suggestions (give reasons)?

No.	Suggestions	Reasons
1	-	-



## Annual Course Report: material science and metallurgy

### 10- What has been implemented from the action plan in the previous year?

No.	Suggestions
1	Adding some scientific reference in the electronic library of the institute.
2	Making a self-study part

### 1\ - Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Studying practically how to determine the molecular weight of polymer and know the actual processing sequences for casting processes.	Make some scientific visits for petrochemical laboratories.	2022-2023	Institute management

Course Coordinator: Assoc.prof. HEND ELsayed Gadow

Head of Department: Assoc.prof. HEND ELsayed Gadow

Date of Approval: 2/2022

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## Annual Course Report: Principles of engineering design

### A. Basic Information

<b>Program Title</b>	Chemical Engineering
<b>Department offering the Program</b>	Chemical Engineering Department
<b>Department Responsible for the Course</b>	Chemical Engineering Department
<b>Course Code</b>	CHE213
<b>Year/ Level</b>	Level 2
<b>Specialization</b>	Major
<b>Authorization data of course report</b>	4/2022
<b>Exam Committee Selection Rule</b>	Commissioning of the Institute of Management
<b>External Revision of Examination</b>	--
<b>Lecturers Number:</b>	1

Teaching hours	Lectures	Exercise	laboratory	Student's load
	2	2	-	3

### B. Specialized information:

#### 1. Statistics

Subject		Percentage
Students attending the course		100%
Students completing the course		100%
Results	Passed	100%
	Failed	0%
Grading of successful students	Excellent	77.1%
	Very Good	16.7%
	Good	4.2%
	Pass	2.1%

#### 2. Course Teaching:

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Design definition Classifications of machine design Mechanical Elements Design General considerations in Machine design Phases and Interactions of the Design Process Common Dimensioning Terminology Standards and Codes	2	2	-	3



## Annual Course Report: Principles of engineering design

2	Forces and Stress Analysis Load and Stress Analysis, Stresses, strains and material properties Stresses and strains Analysis	6	6	-	9
3	Principal Stresses and Shear Stresses Hoop Stress, (Pressure vessels, and Pipelines) Bearing Stress	2	2	-	3
4	Torsional Shear Stress Impact Stress Bending Stress in Straight Beams Buckling of Columns	4	4	-	6
5	Power Screw Multiple Threaded Screws Terminology of Power Screw Torque Requirement, Lifting and Lowering Design of Screw and Nut, Design of Screw Jack	4	4	-	6
6	Flexible Drives Belt Drives	2	2	-	3
7	Flat Belt Pulleys Types of Pulleys for Flat Belts Cast Iron Pulleys Steel Pulleys Wooden Pulleys Rolling-Contact Bearings	6	6	-	9
8	Sliding Contact Bearings Journal Bearings Gear Drives	2	2	-	3
<b>Total</b>		<b>28</b>	<b>28</b>	<b>-</b>	<b>42</b>

- Topics taught as a percentage of the content specified: 92%
- Lecturers commitment of the course content: 97%





## Annual Course Report: Principles of engineering design

### - Used Teaching and Learning Methods

No	Topics	Face-to-Face Lecture	Online Lecture	Flipped Classroom	Presentation and movies	Discussion	Problem solving	Brain storming	Projects	Site visits	Self-learning and Research	Cooperative	Discovering	Modeling	lab
1	Design definition Classifications of machine design Mechanical Elements Design General considerations in Machine design Phases and Interactions of the Design Process Common Dimensioning Terminology Standards and Codes	x	x	x		x									
2	Forces and Stress Analysis Load and Stress Analysis, Stresses, strains and material properties Stresses and strains Analysis	x	x			x	x								
3	Principal Stresses and Shear Stresses Hoop Stress, (Pressure vessels, and Pipelines) Bearing Stress	x	x			x	x	x							



## Annual Course Report: Principles of engineering design

4	Torsional Shear Stress Impact Stress Bending Stress in Straight Beams Buckling of Columns	x	x			x	x								
5	Power Screw Multiple Threaded Screws Terminology of Power Screw Torque Requirement, Lifting and Lowering Design of Screw and Nut, Design of Screw Jack	x													
			x			x	x	x							
6	Flexible Drives Belt Drives	x	x			x	x								
7	Flat Belt Pulleys Types of Pulleys for Flat Belts Cast Iron Pulleys Steel Pulleys Wooden Pulleys Rolling-Contact Bearings														
8	Sliding Contact Bearings Journal Bearings Gear Drives	x	x			x	x	x							

### - Student evaluation:

No.	Evaluation method	Marks
1	Periodic exams	20
2	Student load	20
3	Final term examination	60
<b>Total</b>		<b>100</b>



## Annual Course Report: Principles of engineering design

### 3. Facilities Required for Teaching and Learning:

No.	Facility	No.	Facility
1	Lecture classroom	5	Data show system
2	Presenter	6	Sound system
3	White board		
4	Lab		

### 4- Administrative Constraints:

No.	Constraints
1	There are no constraints

### 5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	89%

### 6- Course enhancement suggestions

No.	Suggestions
1	Reduce the theoretical part
2	Encouraging them to link academic learning with workplace learning

### 7- Comments from external evaluator(s) (if exists):

No.	Comments
1	Update references

### 8- What has been implemented from the student's suggestions in the previous year?

No.	Suggestions
1	Integrating work experiences with education.
2	Transplant and assess pedagogy utilizing such technologies to enhance students' learning.

### 9- What has not been implemented from the suggestions (give reasons)?

No.	Suggestions	Reasons
1	-	-

### 10- What has been implemented from the action plan in the previous year?

No.	Suggestions
1	Adding some scientific reference in the electronic library of the institute.
2	Providing field visits



## Annual Course Report: Principles of engineering design

### 11- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Conducting a training course on the use of laws related to design in industry.	Holding a training course on the Zoom program	2022-2023	Dr. Moataz Mostafa

**Course Coordinator:** Dr. Moataz Mostafa

**Head of Department:** Assoc.prof. Hend Elsayed Gadow

**Date of Approval:** 4/2022

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## Annual Course Report: Numerical Methods in Engineering

### A. Basic Information:

<b>Program Title</b>	Chemical Engineering
<b>Department offering the Program</b>	Chemical Engineering Department
<b>Department Responsible for the Course</b>	Basic Science and Engineering Department
<b>Course Code</b>	BAS221
<b>Year/ Level</b>	Level 2
<b>Specialization</b>	Major
<b>Authorization data of course report</b>	7/2022
<b>Exam Committee Selection Rule</b>	Commissioning of the Institute of Management
<b>External Revision of Examination</b>	--
<b>Lecturers Number:</b>	1

Teaching hours	Lectures	Exercise	laboratory	Student's load
	2	2	-	4

### B. Specialized information:

#### 1. Statistics

Subject		No.	Percentage
Students attending the course		196	100%
Students completing the course		196	100%
Results	Passed	195	99.49%
	Failed	1	0.51%
Grading of successful students	Excellent	99	50.5%
	Very Good	55	28.1%
	Good	24	12.2%
	Pass	17	8.7%

#### 2. Course Teaching:

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Numerical solution of linear and nonlinear systems	10	10	-	8
2	Numerical differentiation and integration Boundary and Eigen value problems.	10	10	-	12
3	Curve fitting and interpolation	4	4	-	20
4	Numerical solution of initial value problems	4	4	-	16
<b>Total</b>		<b>28</b>	<b>28</b>	<b>-</b>	<b>56</b>



## Annual Course Report: Numerical Methods in Engineering

- Topics taught as a percentage of the content specified: 90 %
- Lecturers commitment of the course content: 100 %
- Coverage of exam topics to course content: 90 %
- Used Teaching and Learning Methods

No.	Teaching Method	Choice
1	Lectures	√
2	Discussion Sessions	×
3	Information Collection from Different Sources	√
4	Practical	x
5	Research Assignment	x
6	Field Visits	×
7	Case Studies	x
8	Smart Sessions	×

### - Student Assessment:

No.	Evaluation Method	Marks
1	Periodic exams	20
2	Student load	20
3	Final term examination	60
<b>Total</b>		<b>100</b>

### 3. Facilities Required for Teaching and Learning:

No.	Facility	Choice	No.	Facility	Choice
1	Lecture Classroom	√	7	Wireless Board	×
2	Lab Facilities	√	8	Presenter	×
3	White Board	√	9	Sound System	√
4	Data Show System	√	10	Wire-Internet	x
5	Visualizer	×	11	Wireless Internet	√
6	Smart Board	×	12	...	×

### 4- Administrative Constraints:

No.	Constraints
1	-

### 5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	79.77%



## Annual Course Report: Numerical Methods in Engineering

### 6-Course enhancement suggestions

No.	Suggestions
1	Increase problems and exercises.

### 7- Comments from external evaluator(s) (if exists):

No.	Comments
1	-----

### 8- What has been implemented of the student's suggestions in the previous year?

No.	Suggestions
1	Make all lectures available as videos and pdf
2	More interact with student through MOODEL

### 9- What has not been implemented of the suggestions (give reasons)?

No.	Suggestions	Reasons
1	All suggestions have been implemented	-----

### 10- What has been implemented from the action plan in the previous year?

No.	Areas of development	Description of development	Completion date	Person responsible
1	Self-learning	Enhance searching	2021-2022	Dr Samar Madin

### 11- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase Problems	Development and increase sheets	2022-2023	Dr Samar Madin

Course Coordinator: Dr: Samar Madin

Head of Department: Associate prof. Amal Behary

Date of Approval: 7/2022

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## Annual Course Report: Chemical Engineering Principles II

### A. Basic Information

<b>Program Title</b>	Chemical Engineering
<b>Department offering the Program</b>	Chemical Engineering Department
<b>Department Responsible for the Course</b>	Chemical Engineering Department
<b>Course Code</b>	CHE221
<b>Year/ Level</b>	Level 2
<b>Specialization</b>	Major
<b>Authorization data of course report</b>	7/2022
<b>Exam Committee Selection Rule</b>	Commissioning of the Institute of Management
<b>External Revision of Examination</b>	--
<b>Lecturers Number:</b>	1

Teaching hours	Lectures	Exercise	laboratory	Student's load
	<b>3</b>	<b>2</b>	-	<b>5</b>

### B. Specialized information:

#### 1. Statistics

Subject		Percentage
Students attending the course		100%
Students completing the course		100%
Results	Passed	95.83 %
	Failed	4.17 %
Grading of successful students	Excellent	18.8 %
	Very Good	27.1 %
	Good	31.2 %
	Pass	18.8 %

#### 2. Course Teaching:

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Simultaneous material and energy balances of complete process flow sheets.	6	4	-	10
2	Introduction of computer methods to solve chemical engineering problems	6	4	-	10
3	Equation-based approach and Degrees of freedom analysis	6	4	-	10
4	Conceptual design of chemical processes	6	4	-	10





## Annual Course Report: Chemical Engineering Principles II

5	Introduction to basic Chemical Engineering processes (e.g. humidification, binary distillation, extraction)	12	8	-	20
6	Computer-aided process design.	6	4	-	10
<b>Total</b>		<b>42</b>	<b>28</b>	<b>-</b>	<b>70</b>

- Topics taught as a percentage of the content specified: 87%

- Lecturers commitment of the course content: 95%

- Used Teaching and Learning Methods

No	Topics	Face Lec ture  to Face	On line Lec ture	Flip ped Cla ss ro om	Pre sen tati on and mo vies	Dis cus sion	Pro ble m solv ing	Brai n stor min g	Pro ject s	Site visi ts	lear nin g and Res ear ch  Self	Coop erativ e	Dis cov erin g	Mo deli ng	lab
1	Simultaneous material and energy balances of complete process flow sheets.	x	x			x	x								
2	Introduction of computer methods to solve chemical engineering problems.	x	x				x	x							
3	Equation-based approach and Degrees of freedom analysis.	x	x				x								
4	Conceptual design of chemical processes	x	x			x	x								



## Annual Course Report: Chemical Engineering Principles II

5	Introduction to basic Chemical Engineering processes (e.g. humidification, binary distillation, extraction).	x	x			x	x								
6	Computer-aided process design.	x	x			x	x	x							

### - Student evaluation:

No.	Evaluation method	Marks
1	Periodic exams	30
2	Student load	30
3	Final term examination	90
Total		150

### 3. Facilities Required for Teaching and Learning:

No.	Facility	No.	Facility
1	Lecture classroom	5	Data show system
2	Presenter	6	Sound system
3	White board		
4	Lab		

### 4- Administrative Constraints:

No.	Constraints
1	-

### 5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	75.85%

### 6- Course enhancement suggestions

No.	Suggestions
1	Increase solved problems
2	Use explanatory videos in explanation

### 7- Comments from external evaluator(s) (if exists):

No.	Comments
1	No comments from external evaluator

### 8- What has been implemented of the student's suggestions in the previous year?

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## Annual Course Report: Chemical Engineering Principles II

No.	Suggestions
1	Improve lecture notes
2	Make visits to industrial plants.

### 9- What has not been implemented of the suggestions (give reasons)?

No.	Suggestions
1	-

### 10-What has been implemented of the action plan in the previous year?

No.	Suggestions
1	Application of material and energy balance

### 11- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Review writing references for courses in a uniform style	references for course in a uniform style	2022-2023	Dr. Sohier Abo Bakr

Course Coordinator: Dr. Sohier Abo Bakr

Head of Department: Assoc.prof. Hend Elsayed Gadow

Date of Approval: 7/2022

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## Annual Course Report: chemical engineering thermodynamics

### A. Basic Information

<b>Program Title</b>	Chemical Engineering
<b>Department offering the Program</b>	Chemical Engineering Department
<b>Department Responsible for the Course</b>	Chemical Engineering Department
<b>Course Code</b>	CHE222
<b>Year/ Level</b>	Level 2
<b>Specialization</b>	Major
<b>Authorization data of course report</b>	8/2022
<b>Exam Committee Selection Rule</b>	Commissioning of the Institute of Management
<b>External Revision of Examination</b>	--
<b>Lecturers Number:</b>	1

Teaching hours	Lectures	Exercise	laboratory	Student's load
	2	2	1	4

### B. Specialized information:

#### 1. Statistics

Subject		Percentage
Students attending the course		100%
Students completing the course		100%
Results	Passed	93.72%
	Failed	6.25%
Grading of successful students	Excellent	10.4%
	Very Good	16.7%
	Good	33.3%
	Pass	33.3%

#### 2. Course Teaching:

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Thermodynamic properties of homogeneous mixtures <b>Practical</b> <ul style="list-style-type: none"> <li>Calibration of the Calorimeter</li> <li>Specific Heat Capacity of an Unknown Metal</li> </ul>	8	4	4	6
2	Partial Molal Properties <b>Practical</b> Heat of Fusion of Ice	4	4	2	8

[illegible]



## Annual Course Report: chemical engineering thermodynamics

3	Gibbs-Duhem Equations – Activity Coefficient <b>Practical</b> Heat of Solution	x	x													x
4	Fugacity. Ideal and non-ideal solutions <b>Practical</b> Heat of Neutralization	x	x			x										x
5	Heat effect of mixing	x	x													
6	Excess properties	x	x			x										
7	Phase equilibria – miscible systems	x	x													
8	Chemical reaction equilibria	x	x			x										

### - Student evaluation:

No.	Evaluation method	Marks
1	Periodic exams	20
2	Student load	20
3	Practical Examination	10
4	Final term examination	75
Total		125

### 3. Facilities Required for Teaching and Learning:

No.	Facility	No.	Facility
1	Lecture classroom	5	Data show system
2	Presenter	6	Sound system
3	White board		
4	Lab		

### 4- Administrative Constraints:

Constraints
No constraints



## Annual Course Report: chemical engineering thermodynamics

### 5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	76.54%

### 6- Course enhancement suggestions

No.	Suggestions
1	Making some visits for petrochemical factories.
2	Improve lecture notes

### 7- Comments from external evaluator(s) (if exists):

No.	Comments
1	مراعاة تطابق الجدارات ومخرجات التعلم مع جدول تقييم الطالب

### 8- What has been implemented from the student's suggestions in the previous year?

No.	Suggestions
1	Improve lecture notes
2	Using online course material.

### 9- What has not been implemented from the suggestions (give reasons)?

No.	Suggestions	Reasons
1	Integrating work experiences with education.	Lack of academic time and students' preoccupation with summer training

### 10- What has been implemented from the action plan in the previous year?

No.	Suggestions
1	Adding some scientific reference in the electronic library of the institute.

### 11- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Conducting a training course on the use of thermodynamic theories in industry.	Holding a training course on the Zoom program	2022-2023	Dr.Mohamed Elbendary

Course Coordinator: Dr. Mohamed Elbendary

Head of Department: Assoc.prof. Hend Elsayed Gadow

Date of Approval: 8/2022



## Annual Course Report: Analytical chemistry

### A. Basic Information

<b>Program Title</b>	Chemical Engineering
<b>Department offering the Program</b>	Chemical Engineering Department
<b>Department Responsible for the Course</b>	Chemical Engineering Department
<b>Course Code</b>	CHE223
<b>Year/ Level</b>	Level 2
<b>Specialization</b>	Major
<b>Authorization data of course report</b>	7/2022
<b>Exam Committee Selection Rule</b>	Commissioning of the Institute of Management
<b>External Revision of Examination</b>	--
<b>Lecturers Number:</b>	1

Teaching hours	Lectures	Exercise	laboratory	Student's load
	2	-	2	4

### B. Specialized information:

#### 1. Statistics

Subject		Percentage
Students attending the course		100%
Students completing the course		100%
Results	Passed	97.92%
	Failed	2.08%
Grading of successful students	Excellent	50%
	Very Good	35.4%
	Good	6.2%
	Pass	6.2%

#### 2. Course Teaching:

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Basic tools in analytical chemistry <b>Practical</b> □ Preparation of Standard Solution of solid salt Preparation of a Standard Solution of concentrated Acid	4	-	4	8





## Annual Course Report: Analytical chemistry

2	<b>Titrimetric Methods of Analysis</b> <b>Practical</b> <ul style="list-style-type: none"> <li>• Mohr's method for determining chloride</li> <li>• EDTA standardization against metallic magnesium</li> <li>• Determination of magnesium using eriochrome black T indicator</li> <li>• Determination of aluminum using EBT as indicator (back –titration)</li> </ul>	8	-	10	16
3	<b>Gravimetric Methods of Analysis</b> <b>Practical</b> Gravimetric Analysis	4	-	6	8
4	Evaluating Analytical Data	8	-	-	16
5	<b>Instrumental chemical analysis</b> <b>Practical</b> <ul style="list-style-type: none"> <li>• Conductimetry</li> <li>• PH meters</li> </ul> Spectrophotometer	4	-	8	8
<b>Total</b>		<b>28</b>	<b>-</b>	<b>28</b>	<b>56</b>

- Topics taught as a percentage of the content specified: 90%
- Lecturers commitment of the course content: 95%

### Used Teaching and Learning Methods

No	Topics	Face-to-Face Lecture	Online Lecture	Flipped Classroom	Presentation and movies	Discussion	Problem solving	Brain storming	Projects	Site visits	Self-learning and Research	Cooperative	Discovering	Modeling	lab
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## Annual Course Report: Analytical chemistry

1	<p>Basic tools in analytical chemistry <b>Practical</b></p> <ul style="list-style-type: none"> <li>Preparation of Standard Solution of solid salt</li> <li>Preparation of a Standard Solution of concentrated Acid</li> </ul>	x	x			x									X
2	<p>Titrimetric Methods of Analysis <b>Practical</b></p> <ul style="list-style-type: none"> <li>Mohr's method for determining chloride</li> <li>EDTA standardization against metallic magnesium</li> <li>Determination of magnesium using eriochrome black T indicator</li> <li>Determination of aluminium using EBT as indicator (back –titration)</li> </ul>	x	x												X
3	<p>Gravimetric Methods of Analysis <b>Practical</b> Gravimetric Analysis</p>	x	x												X
4	Evaluating Analytical Data	x	x			X									
5	<p>Instrumental chemical analysis <b>Practical</b></p> <ul style="list-style-type: none"> <li>Conductimetry</li> <li>PH meters</li> <li>Spectrophotometer</li> </ul>	x	x								X				X



## Annual Course Report: Analytical chemistry

### - Student Assessment:

No.	Evaluation method	Marks
1	Periodic exams	15
2	Student load	15
3	Practical Examination	10
4	Final term examination	60
Total		100

### 3. Facilities Required for Teaching and Learning:

No.	Facility	No.	Facility
1	Lecture classroom	5	Data show system
2	Presenter	6	Sound system
3	White board		
4	Lab		

### 4- Administrative Constraints:

No.	Constraints
1	There are no constraints

### 5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	77.92%

### 6- Course enhancement suggestions

No.	Suggestions
1	Dividing them into groups to search about some scientific topics related to the subject
2	Increasing the number of lab experiments

### 7- Comments from external evaluator(s) (if exists):

No.	Comments
1	المراجع بحاجة الى تحديث

### 8- What has been implemented of the student's suggestions in the previous year?

No.	Suggestions
1	Improve lecture notes
2	Improving the laboratory tools used
3	Integrating work experiences with education.

### 9- What has not been implemented of the suggestions (give reasons)?

No.	Suggestions	Reasons
1	-	-



## Annual Course Report: Analytical chemistry

### 10- What has been implemented of the action plan in the previous year?

No.	Suggestions
1	Introduce virtual lab technique by using suitable videos

### 11- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some of scientific reference In the library of the institute	Add more scientific reference In the electronic library of the institute	2022-2023	Associate prof. Hend Gadow

Course Coordinator: Associate prof. Hend Gadow

Head of Department: Associate prof. Hend Gadow

Date of Approval: 7/2022

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## Annual Course Report: Process Dynamics and Control

### A. Basic Information

<b>Program Title</b>	Chemical Engineering
<b>Department offering the Program</b>	Chemical Engineering Department
<b>Department Responsible for the Course</b>	Chemical Engineering Department
<b>Course Code</b>	CHE 224
<b>Year/ Level</b>	Level 2
<b>Specialization</b>	Major
<b>Authorization data of course report</b>	7/2022
<b>Exam Committee Selection Rule</b>	Commissioning of the Institute of Management
<b>External Revision of Examination</b>	--
<b>Lecturers Number:</b>	1

Teaching hours	Lectures	Exercise	laboratory	Student's load
	2	-	2	4

### B. Specialized information:

#### 1. Statistics

Subject		Percentage
Students attending the course		100%
Students completing the course		100%
Results	Passed	91.67%
	Failed	8.33%
Grading of successful students	Excellent	8.3%
	Very Good	10.4%
	Good	16.7%
	Pass	56.2%

#### 2. Course Teaching:

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Automatic control merits and basic features	2	2	-	4
2	Classification of control action (openloop and closed-loop, feed-back and feed-forward, process and position control)	4	4	-	8
3	Mathematical tools (Linearization, Laplace transforms and block diagram algebra)	4	4	-	8



## Annual Course Report: Process Dynamics and Control

4	Process dynamics (first, second and higher orders)	2	2	-	4
5	Measuring and actuating elements	4	4	-	8
6	Two-position controller and Three-term controller	4	4	-	8
7	Controller mechanism and optimum setting	4	4	-	8
8	System stability (algebraic and graphical methods).	4	4	-	8
<b>Total</b>		<b>28</b>	<b>28</b>	<b>-</b>	<b>56</b>

- Topics taught as a percentage of the content specified: 89%

- Lecturers commitment of the course content: 98%

Used Teaching and Learning Methods

No	Topics	Face-to-Face Lecture	Online Lecture	Flipped Classroom	Presentation and movies	Discussion	Problem solving	Brain storming	Projects	Site visits	Self-learning and Research	Cooperative	Discovering	Modeling	lab
1	Automatic control merits and basic features	x	x		x		x								



## Annual Course Report: Process Dynamics and Control

2	Classification of control action (openloop and closed-loop, feed-back and feedforward, process and position control)	x	x		x	x	x								
3	Mathematical tools (Linearization, Laplace transforms and block diagram algebra)	x	x		x		x	x							
4	Process dynamics (first, second and higher orders)	x	x		x			x							
5	Measuring and actuating elements	x	x		x				x						
6	Two-position controller and Three-term controller	x	x		x		x	x							



## Annual Course Report: Process Dynamics and Control

7	Controller mechanism and optimum setting	x	x		x		x	x							
8	System stability (algebraic and graphical methods).	x	x		x	x	x								

### - Student Assessment:

No.	Evaluation method	Marks
1	Periodic exams	20
2	Student load	20
3	Final term examination	60
Total		100

### 3. Facilities Required for Teaching and Learning:

No.	Facility	No.	Facility
1	Lecture classroom	5	Data show system
2	Presenter	6	Sound system
3	White board		
4	Lab		

### 4- Administrative Constraints:

Constraints
No constraints

### 5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	74.18%

### 6- Course enhancement suggestions

No.	Suggestions
1	Improve lecture notes

### 7- Comments from external evaluator(s) (if exists):

No.	Comments
1	نقص في تطابق الجدارات ومخرجات التعلم مع جدول تقييم الطالب و المراجع المذكوره بعضها في حاجه الى التحديث





## Annual Course Report: Process Dynamics and Control

### 8- What has been implemented from the student's suggestions in the previous year?

No.	Suggestions
1	Cooperate with some companies to explain the latest technology used in control rooms.

### 9- What has not been implemented from the suggestions (give reasons)?

No.	Suggestions	Reasons
1	Introducing real models of industrial applications.	Lack of academic time.

### 10- What has been implemented from the action plan in the previous year?

No.	Suggestions
1	Adding some scientific reference in the electronic library of the institute.

### 11- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increasing the application and discussion aspect with students	Asking questions for discussion and asking them to search for more applications	2022-2023	Prof. Dr. / Taha E. Farrag

Course Coordinator: Prof. Dr. / Taha E. Farrag

Head of Department: Assoc.prof. Hend Elsayed Gadow

Date of Approval: 7/2022

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## Annual Course Report: Heat Transfer

### A. Basic Information

<b>Program Title</b>	Chemical Engineering
<b>Department offering the Program</b>	Chemical Engineering Department
<b>Department Responsible for the Course</b>	Chemical Engineering Department
<b>Course Code</b>	CHE225
<b>Year/ Level</b>	Level 2
<b>Specialization</b>	Major
<b>Authorization data of course report</b>	7/2022
<b>Exam Committee Selection Rule</b>	Commissioning of the Institute of Management
<b>External Revision of Examination</b>	--
<b>Lecturers Number:</b>	1

Teaching hours	Lectures	Exercise	laboratory	Student's load
	2	2	1	3

### B. Specialized information:

#### 1. Statistics

Subject		Percentage
Students attending the course		100%
Students completing the course		100%
Results	Passed	91.67 %
	Failed	8.33 %
Grading of successful students	Excellent	4.2 %
	Very Good	25 %
	Good	35.4 %
	Pass	27.1 %

#### 2. Course Teaching:

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Introduction to heat transfer : conduction ,convection ,thermal radiation Practical Heat exchanger training equipment	6	6	2	8
2	The heat diffusion equation : Cartesian ,cylindrical ,spherical coordiates Practical Shell & tube heat exchanger	6	6	2	8
3	One dimensional St.St conduction	4	4	2	6





## Annual Course Report: Heat Transfer

3	One dimensional St.St conduction Practical Radial heat conduction	x	x			x	x								x
4	External ,internal flow convection Practical Linear heat conduction	x	x			x	x				x				x
5	heat exchangers Practical Extended surface heat transfer	x	x			x	x	x							x

### - Student evaluation:

No.	Evaluation method	Marks
1	Periodic exams	20
2	Student load	20
3	Practical Examination	10
4	Final term examination	75
<b>Total</b>		<b>125</b>

### 3. Facilities Required for Teaching and Learning:

No.	Facility	No.	Facility
1	Lecture classroom	5	Data show system
2	Presenter	6	Sound system
3	White board		
4	Lab		

### 4- Administrative Constraints:

No.	Constraints
1	-

### 5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	80.7%

### 6- Course enhancement suggestions

No.	Suggestions
1	Ensuring that the students carry out the tasks of self-study and discuss with them what they have reached



## Annual Course Report: Heat Transfer

2	Making some visits for petrochemical plants.
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### 7- Comments from external evaluator(s) (if exists):

No.	Comments
1	المراجع المذكورة تحتاج للتحديث

### 8- What has been implemented from the student's suggestions in the previous year?

No.	Suggestions
1	Provide training on how to use a new teaching technology in their classes.
2	Using online course material.

### 9- What has not been implemented from the suggestions (give reasons)?

No.	Suggestions	Reasons
1	Conducting a training course on the use of thermodynamic theories in industry.	Lack of academic time and students' preoccupation with summer training

### 10- What has been implemented from the action plan in the previous year?

No.	Suggestions
1	Adding some scientific reference in the electronic library of the institute.

### 11- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Conducting a training course on the use of thermodynamic theories in industry.	Holding a training course on the Zoom program	2022-2023	Institute management

Course Coordinator: Dr. Riham Atef

Head of Department: Asso.prof. Hend Elsayed Gadow

Date of Approval: 7/2022

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