



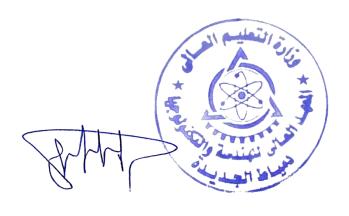
تقارير المقررات قسم الهندسة الكيميائية

إعتماد مجلس القسم لتقارير المقررات قسم الهندسة الكيميائية

بتاريخ 2023/8/28

إعتماد المجلس العلمي لتقارير المقررات قسم الهندسة الكيميائية

بتاریخ 6/11/2023





2022-2023

تقارير المقررات لقسم الهندسة الكيميائية



Head of the department Quality Assurance Unit Manager		Dean of the institute
Hen	C. C. L'C.	JAM -
Assoc.Prof.Dr./ Hend Elsayed Gadow	Assoc.Prof.Dr./ Ramadan Abdelghany Elkateb	Prof.Dr./ Osami Elsaeed Rageh





فرقة اولى



Annual Course Report: Mathematics 3

A. basic Information

Program Title	Chemical Engineering
Department offering the Program	Chemical Engineering Department
Department Responsible for the	Basic Science and Engineering Department
Course	
Course Code	BAS111
Year/ Level	Level 1
Specialization	Major
Authorization data of course report	2/2023
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		339	100%
Students completing the course		339	100%
D 4	Passed	287	84.66%
Results	Failed	52	15.34%
	Excellent	78	23%
Grading of successful students	Very Good	52	15.3%
	Good	55	16.2%
	Pass	102	30.1%



Annual Course Report: Mathematics 3

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
	Total	28	28	-	56

- 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	V
2	Discussion Sessions	×
3	Information Collection from Different Sources	V
4	Practical	×
5	Research Assignment	X



Annual Course Report: Mathematics 3

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
	Total	150

3. Facilities Required for Teaching and Learning:

No.	Facility	Choice
1	Lecture Classroom	$\sqrt{}$
2	Lab Facilities	$\sqrt{}$
3	White Board	$\sqrt{}$
4	Data Show System	$\sqrt{}$
5	Visualizer	×
6	Smart Board	×

No.	Facility	Choice
7	Wireless Board	×
8	Presentation	
9	Sound System	
10	Wire-Internet	X
11	Wireless Internet	
12		

4- Administrative Constraints:

No.	Constraints
1	

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	81.59%



وزارة التعليم العالى المعهد العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Mathematics 3

6- Course enhancement suggestions

		88	
N	lo.	Suggestions	
1	1	Integrating work experiences with education	

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	Increasing some 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 of the action plan in the previous year?

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

11 – Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Add case studies in the lectures	Add engineering applications	2023-2024	Dr. Samar Madian

Course Coordinator: Dr. Samar Madian

Head of Department: Assoc. prof. Amal Behairy

Date of Approval: 2/2023



Annual Course Report: Electrical Engineering Fundamentals

A. Basic Information

Program Title	Chemical Engineering		
Department offering the Program	Chemical Engineering Department		
Department Responsible for the	Basic Science and Engineering Department		
Course			
Course Code	BAS112		
Year/ Level	Level 1		
Specialization	Major		
Authorization data of course report	2/2023		
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
<u> </u>	3	2	-	4

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		331	100%
Students completing the course		331	100%
Dagulta	Passed	289	87.31%
Results	Failed	42	12.69%
	Excellent	52	15.7%
Conding of an accordal students	Very Good	58	17.5%
Grading of successful students	Good	75	22.7%
	Pass	135	40.8%

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
7	3-Phase current - Electric machines - D.C machines	6	4	1	8



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Electrical Engineering Fundamentals

8	Transformers	3	2	-	4
9	Induction and synchronous machines	3	2	-	4
10	Fractional power machine	3	2	-	4
	Total	42	28	-	56

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

- 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
	Total	150

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



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Electrical Engineering Fundamentals

4- Administrative Constraints:

No.	o. Constraints	
1		

5- Student Evaluation Result of the Course:

No.	o. Evaluation Result	
1	77.5%	

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	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.		

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

No.	Suggestions	Reasons
1	Use the laboratory for teach	ng Electrical Practical part not present in the
	Engineering Fundamentals exper	ents regulation of the institute.

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

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



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Electrical Engineering Fundamentals

11- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Conducting field		2023-2024	Institute management
	visits to electricity			
	companies			

Course Coordinator: Dr. Rabab Reda

Head of Department: Assoc. prof. Amal Behairy

Date of Approval: 2/2023



Annual Course Report:

Engineering Thermodynamics

A. Basic Information

Program Title	Chemical Engineering		
Department offering the Program	Chemical Engineering Department		
Department Responsible for the	Basic Science and Engineering Department		
Course			
Course Code	BAS113		
Year/ Level	Level 1		
Specialization	Major		
Authorization data of course report	2/2023		
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
G	3	2	-	4

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		322	100%
Students completing the course		322	100%
Dogulto	Passed	310	96.27
Results	Failed	12	3.73
	Excellent	117	36.33
Creding of avecageful students	Very Good	75	23.29
Grading of successful students	Good	58	18.01
	Pass	60	18.63

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



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report:

Engineering Thermodynamics

5	Principle of Carnot cycles; Heat engines, Refrigerators and heat pumps 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
	Total	42	28	-	56

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

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

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



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report:

Engineering Thermodynamics

4- Administrative Constraints:

No.	Constraints
1	

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	89%

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	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.

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

No.	Suggestions	Reasons
1	References need update	

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

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



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report:

Engineering Thermodynamics

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	иечеюршен	2023-2024	Dr/ Abdelnaby kabeel
2	-increase students' projects		2023-2024	Dr/ Abdelnaby kabeel

Course Coordinator: Dr. Abdelnaby Kabeel / Dr. Moataz Mostafa

Head of Department: Assoc. Prof. Dr. Aml Elbehery

Date of Approval: 2/2023



Annual Course Report: Technical English Language 2

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	BAS114
Year/ Level	Level 1
Specialization	Major
Authorization data of course report	2/2023
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	3

B. Specialized information:

1. Statistics

Subject		Percentage
Students attending the course		100
Students completing the course		100
D 14	Passed	89.23
Results	Failed	10.77
	Excellent	16.63
Grading of successful students	Very Good	24.9
	Good	24.6
	Pass	23.1



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 4Amber 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
	Total	28	-	28	42



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	V
4	Practical	V
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
	Total	100



Annual Course Report: Technical English Language 2

3. Facilities Required for Teaching and Learning:

No.	Facility	Choice
1	Lecture Classroom	V
2	Lab Facilities	V
3	White Board	$\sqrt{}$
4	Data Show System	\checkmark
5	Visualizer	×
6	Smart Board	×

No.	Facility	Choic e
7	Wireless Board	×
8	Presenter	×
9	Sound System	√
10	Wire-Internet	х
11	Wireless Internet	√

4- Administrative Constraints:

No.	Constraints
1	

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	79.68%

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	



Annual Course Report: Technical English Language 2

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

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

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	-Increase Case studies implementation according to social's needed	 Divided Students' groups Evaluation projects 	2022-2023	Dr. Doaa Elsherbiny

11- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Using power point	Doing searches by using internet.	2023-2024	D/ Doaa Elsherbiny
2	Adding a lot of English language books in the library of the institute.	By adding a lot of English language books which encourage students for reading.		

Course Coordinator: Dr. Doaa Elsherbiny

Head of Department: Assoc. Prof. Amal Behairy

Date of Approval: 2/2023

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Annual Course Report: Computer Programming

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	BAS115		
Year/ Level	Level 1		
Specialization	Major		
Authorization data of course report	2/2023		
Exam Committee Selection Rule	Commissioning of the Institute of		
	Management		
External Revision of Examination			
Lecturers Number:	1		

Teaching hours	Lectures	Exercise	Lab.	Student's load
reaching nours	2		2	4

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course	Students attending the course		100%
Students completing the course		216	100%
Dogulta	Passed	200	92.59%
Results	Failed	16	7.41%
	Excellent	34	15.7%
Creding of avecaging students	Very Good	62	28.7%
Grading of successful students	Good	54	25%
	Pass	50	23.1%

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
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



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Computer Programming

	Computer 1	1 051 411111	8		
	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, do- while& Nested loop &Continue, Break.)	4	-	4	8
	 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.				
	Total	28	-	28	56

- 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	Provide regular quality feedback.
2	Use Direct Instruction.
3	Break learning tasks into small steps.
4	Moodle
5	Forming small groups of two or three students within the class grouped according to
	their level can help with personalizing the teaching while not sacrificing class
	instruction time



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

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
	Total	100

3. Facilities Required for Teaching and Learning:

No.	Facility
1	Lecture Classrooms with Sound Systems.
2	Computer Laboratories
3	Presenter
4	White board
5	Data show system
6	Wire and Wireless Internet Connections
7	Moodle

4- Administrative Constraints:

No.	o. Constraints		
1			

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	72.33%

6- Course enhancement suggestions

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

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

No.	Comments
1	



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Computer Programming

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		

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

No.	Suggestions	Reasons
1	More field visits for more learning about the course.	No places near by the
		institute

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	Updating the course's educational resources			Institute management
2	-Increase Field Visits -Increase Case studies implementation according to social's needed -increase students' projects	 Divided Students' groups Identify project names According social's needed and field visits Using suitable program Evaluation projects 	2022-2023	

11- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	The Z transform and	زيادة عدد المحاضرات		
	discrete time LTI	لتغطية مواضيع اكثر	2023-2024	Institute management
	systems			

Course Coordinator: Dr/Amira Elsonbaty

Head of Department: Assoc. Prof. Amal Behairy

Date of Approval: 2/2023



Annual Course Report: Inorganic chemistry

A. Basic Information

Program Title	Chemical engineering		
Department offering the Program	Chemical engineering department		
Department Responsible for the Course	Chemical engineering department		
Course Code	CHE 111		
Year/ Level	One		
Specialization	Major		
Authorization data of course report	2/2023		
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	5

B. Specialized information:

1. Statistics

Subject	Percentage	
Students attending the course	Students attending the course	
Students completing the course		100%
Dogulto	Passed	73.26%
Results	Failed	26.74%
	Excellent	18.6%
Conding of successful students	Very Good	1.2%
Grading of successful students	Good	14%
	Pass	39.5%

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 Introduction in investigation for Acidic and basic Radical in sample salts Dilute HCL group Concentrated H ₂ SO ₄ group	6	-	12	21
2	Chemical bonding	4	-	-	14



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Inorganic chemistry

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 ₂ S group NH ₄ OH + NH ₄ Cl group NH ₄ OH + NH ₄ Cl + H ₂ S group	12	-	12	21
4	Nobel gases, Lanthanides and Actinides Practical NH4OH + NH4Cl + (NH4)2 CO3 group Scheme of identification of basic Radical	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

	Used Teaching and Lo		8 1110												
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 Practical Introduction in investigation for Acidic and basic	X	x								X				X



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Inorganic chemistry

	Radical in sample salts								
	Dilute HCl groupConcentrated								
	H2SO4 group								
2	Chemical bonding	Х	X				X		Х
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	x	X				X		X
	• Dil. HCl + H ₂ S group • NH ₄ OH + NH ₄ Cl group • NH4OH + NH4Cl + H2S group								
4	Nobel gases, Lanthanides and Actinides Practical NH ₄ OH + NH ₄ Cl + (NH ₄) ₂ CO ₃ group Scheme of identification of basic Radical	x	x				X		x

- Student Assessment:

Dia	dent Assessment.	
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



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Inorganic chemistry

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	62.83%

6- Course enhancement suggestions

No.	Suggestions
1	Encourage the students to make some models of atom.
2	Cooperate with some laboratories for water analysis.

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

No.	Comments
1	بالنسبة لدرجات الامتحان النهائي فالمكتوب في توصيف المقرر 75درجة بينما المكتوب في توصيف البرنامج 60درجة
	فقط برجاء تصحيح الخطأ
2	في توصيف البرنامج لم يتم تخصيص أى درجات للعمليPractical للمقرر بينما في توصيف المقرر تم تخصيص 11
	درجات للعملى. برجاء المراجعة
3	بالنسبة للوسائل المستخدمة للتعليم و التعلم تم ذكر الاحتياج إلىPresenter و هي كلمة غير مفهومة

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

No.	Suggestions
1	None

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

No.	Suggestions	Reasons
1	Support the practical part with virtual laboratories	Inability to have a licensed
		version of programms

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

No.	Suggestions
1	Make some scientific visits for petrochemical laboratories.

11- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Adding some scientific reference in the electronic library of the institute.	Increase the number of refrences that relates with inorganic industries	2023-2024	Institute management

Course Coordinator: Assoc.prof. Ramadan Elkateb Head of Department: Assoc.prof. Hend Elsayed Gadow

Date of Approval: 2/2023



Annual Course Report Mathematics 4

A. Basic Information:

Program Title	Chemical Engineering		
Department offering the Program	Chemical Engineering Department		
Department Responsible for the	Basic Science and Engineering Department		
Course			
Course Code	BAS121		
Year/ Level	Level 1		
Specialization	Major		
Authorization data of course report	7/2023		
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	-	5

B. Specialized information:

1. Statistics

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

2. Course Teaching:

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Special functions	4	4	-	10
2	Fourier series	2	2	-	5
3	periodic functions and Euler's laws	4	4	-	10
4	Fourier's integrations – solutions of the differential	2	2		10



Annual Course Report Mathematics 4

5	equations by series - solving the partial differential equations using variables separation	2	2	•	5
6	Functions with complex variables – complex quantities algebra	2	2	-	5
7	multiple values functions - the analytical functions and Koshi's theorem	2	2	-	10
8	The complex series	2	2	-	5
9	Taylor and Lorant series - the zeros, unique points and the rest - the infinite series.	8	8	-	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	$\sqrt{}$
2	Discussion Sessions	×
3	Information Collection from Different Sources	$\sqrt{}$
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			
	Total 150				

3. Facilities Required for Teaching and Learning:

No.	Facility	Choice	No.	Facility	Choice
1	Lecture Classroom		7	Wireless Board	×



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report Mathematics 4

2	Lab Facilities	
3	White Board	
4	Data Show System	$\sqrt{}$
5	Visualizer	×
6	Smart Board	×

8	Presenter	×
9	Sound System	$\sqrt{}$
10	Wire-Internet	X
11	Wireless Internet	$\sqrt{}$

4- Administrative Constraints:

No.	o. Constraints	
1		

5- Student Evaluation Result of the Course:

No.	A Kvaluation Regult	
1	63.56%	

6- Course enhancement suggestions

No.	Suggestions
1	Enhancement lecture presentation.

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	Increase Problems (Development and increase sheets)

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.	Areas of development	Description of development	Completion date	Person responsible
1	Increase Problems	Development and increase sheets	2022-2023	Dr Samar Madin



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report Mathematics 4

11- Action plan for next academic year

No.	Areas of	Description of development	Completion	Person responsible
	development		date	
1	Lecture	Add engineering applied	2023-2024	Dr Samar Madin
	Presentation	problems to increase		
		discussion and interaction		
		between students and		
		lecturer		

Course Coordinator: Assoc. prof. Samar Madian Head of Department: Assoc. prof. Amal Behairy

Date of Approval: 7/2023



Annual Course Report: Technical Report Writing

A. Basic Information

Program Title	Chemical Engineering	
Department offering the Program	Chemical Engineering Department	
Department Responsible for the	Basic Science and Engineering Department	
Course		
Course Code	BAS122	
Year/ Level	Level 1	
Specialization	Major	
Authorization data of course report	8/2023	
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		317	100%
Students completing the course		317	100%
Dogulta	Passed	260	82.02%
Results	Failed	57	17.98%
	Excellent	46	14.5%
Creating of an acceptul stradents	Very Good	52	16.4%
Grading of successful students	Good	45	14.2%
	Pass	117	36.9%

2. Course Teaching:

No.	Topics	Lecture	Exercise	laboratory	Student
					load
1	Introduction to technical writing.				
	Define a report, Types of re	eports, Aim			
	 Common concepts: clarity 	of Writing, 4	-	-	8
	Consistency				
	 Supporting Material 				
	Language rules (voice, tense) and S	Style			



Annual Course Report: Technical Report Writing

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
	Total	28	-	28	56

- 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%

- 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



Annual Course Report: Technical Report Writing

2	final examination	50
3	Practical	10
4	Student load	20
	Total	100

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	80.57%

6- Course enhancement suggestions

No.	Suggestions
1	Integrating work experiences with education.

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?

	1 88 1 1
No.	Suggestions
1	Increasing some of scientific reference in the library of the institute

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

- 1	> ++1144 1145 1164 See 11 111 promotion of the subsections (81+61 etholis)+						
	No.	Suggestions	Reasons				
	1						



Annual Course Report: Technical Report Writing

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	Increase some of scientific reference	Add more books in the electronic library of	2022-2023	Lecturer
	in the library of the institute	the institute		

11- Action plan for next academic year

No.	Areas of	Description of	Completion	Person responsible
	development	development	date	
1	Add case studies in	Preparing various	2023-2024	Dr. Hany Hashesh
	lectures Add applications of theoretical theory as case studies	activities that are compatible with students' inclinations and capabilities using computer programs		Dr. Mohammed ElBindary

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

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

Date of Approval: 8/2023



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Introductions to Information Technology

A. Basic Information

Program Title	Chemical Engineering
Department offering the Program	Chemical Engineering Department
Department Responsible for the	Basic Science and Engineering Department
Course	
Course Code	BAS123
Year/ Level	Level 1
Specialization	Major
Authorization data of course report	8/2023
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	Students attending the course		100%
Students completing the course	320	100%	
Results	Passed	282	88.12%
Results	Failed	38	11.88%
	Excellent	43	13.4%
Con the of several states	Very Good	66	20.6%
Grading of successful students	Good	50	15.6%
	Pass	123	38.4%

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



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Introductions to Information Technology

5	The internet; the foundations, Resources and uses of the internet, Emphasizing practical skills for finding, Reading and	4	4	-	8
	authorizing materials	·	-		
6	Privacy Security and Ethics	4	4	-	4
7	Web Design using HTML Language and applications	-	-	-	4
	Total		28	-	56

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

No.	Teaching Methods
1	Provide regular quality feedback.
2	Use Direct Instruction.
3	Break learning tasks into small steps.
4	Moodle
5	Forming small groups of two or three students within the class grouped according to
	their level can help with personalizing the teaching while not sacrificing class
	instruction time

- Student Assessment:

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

3. Facilities Required for Teaching and Learning:

No.	Facility
1	Lecture classroom
2	Presenter
3	Computer lab.



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Introductions to Information Technology

4	White board
5	Data show system
6	Wireless internet
7	Sound system
8	Moodle

4- Administrative Constraints:

No.	Constraints
1	

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	72.33%

6- Course enhancement suggestions

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

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.
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		



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Introductions to Information Technology

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	Updating the course's educational resources	•		Institute management
2	-Increase Field Visits -Increase Case studies implementation according to social's needed -increase students'	 1- Divided Students' groups 2- Identify project names According social's needed and field visits 3- Using suitable program 	2022-2023	Institute management
	projects	Evaluation projects		

11- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Using MATLAB	Simulate and analysis		Institute management
	Program	by using mat lab		_

Course Coordinator: Dr/Amira Elsonbaty Head of Department: Assoc. prof. Amal Behairy

Date of Approval: 8/2023



وزاره التعليم العالي لمعهد العالي للهندسة والتكنولوجيا بدمياط الحديدة

Annual Course Report: Strength of Materials

A. Basic Information

11. Dusic Information	
Program Title	Chemical Engineering Program
Department offering the Program	Chemical Engineering Department
Department Responsible for the	Basic Science and Engineering Department
Course	
Course Code	BAS124
Level / Semester	level 1
Specialization	Major
Authorization date of course report	8/2023
Exam Committee Selection Rule	Commissioning of the Institute Management
External Revision of Examination	
Lecturers Number	1

Teaching hours	Lectures	Exercise	laboratory	Student's load
8	2	2	-	4

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		198	100%
Students completing the course		196	98.99%
Doggala	Passed	156	78.79%
Results	Failed	42	21.21%
	Excellent	39	25%
Consider a of an according story denta	Very Good	16	10.26%
Grading of successful students	Good	27	17.31%
	Pass	74	47.43%

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
Total		28	28	-	56



وزاره التعليم العالي لمعهد العالي للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Strength of Materials

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

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	84.7%			

6- Course enhancement suggestions

No.	Suggestions		
1	Converting course from traditional course to particular online course		
2	Increasing internet networking		



وزاره التعليم العالي لمعهد العالي للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Strength of Materials

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	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 of the action plan in the previous year?

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

11- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Self-learning	Enhance searching	2023-2024	Course Coordinator

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

Head of Department: Assoc. prof. Amal Behairy

Date of Approval: 8/2023



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Organic Chemistry

A. Basic Information

Program Title	Chemical Engineering			
Department offering the Program	Chemical Engineering Department			
Department Responsible for the Course	Chemical Engineering Department			
Course Code	CHE121			
Year/ Level	Level 1			
Specialization	Major			
Authorization data of course report	8/2023			
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	5

B. Specialized information:

1. Statistics

Subject		Percentage	
Students attending the course		100%	
Students completing the course		98.8%	
Results	Passed	93.98%	
Results	Failed	6.02%	
	Excellent	20.5%	
Grading of successful students	Very Good	7.2%	
	Good	15.7%	
Pass		50.6%	

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Organic Chemistry: basic concepts	2	-	2	5
2	alkanes	2	-	2	5
3	Stereochemistry	4	-	4	10
4	Alkenes	4	-	4	10
5	Alkynes	2	-	2	5
6	Aromatic Compounds	4	-	4	10
7	Alcohols	2	-	2	5
8	Ethers and alkyl halide	2	-	2	5
9	Aldehydes and Ketones	2	-	2	5



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Organic Chemistry

10	Carboxylic Acids and Their Derivatives	2	-	2	5
11	Amines and polyfunctional compounds	2	-	2	5
Total		28	-	28	70

- 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
1	Organic Chemistry: basic concepts	x	x			x					x				
2	alkanes	X	X			X									
3	Stereochemistry	X	X			X	X				X				
4	Alkenes	X	X			X	X								
5	Alkynes	X	X			X					X				
6	Aromatic Compounds	X	X			X	X								
7	Alcohols	X	X			X	X								
8	Ethers and alkyl halide	x	x			X	x				x				
9	Aldehydes and Ketones	X	X			X	X				X				



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Organic Chemistry

10	Carboxylic Acids and Their Derivatives	x	x	x	x				
11	Amines and polyfunctional compounds	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		

4- Administrative Constraints:

No.	Constraints	
	There are no constraints	

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	68.42%

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	برجاء مراجعة توزيع درجات المادة في توصيف البرنامج وتوصيف المقرر حيث يوجد اختلاف.



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Organic Chemistry

بالنسبة للطرق المستخدمة للتعليم والتعلم تم ذكر (!?seminar) لا يوجد في توصيف المقرر ما يستدعى الاحتياج لل seminar.

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

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

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

No.		Su	Reasons			
1	Increasing	scientific	visits	for	petrochemical	Inability to increase
	laboratories.				_	cooperation protocols
						with companies

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

No.	Suggestions
1	Make some scientific visits for petrochemical laboratories

11- Action plan for next academic year

No.	Areas of	Description of development	Completion	Person
	development		date	responsible
1	Increasing	Make extra cooperation	2023-2024	Associate prof.
	scientific visits	protocols with companies.		Khaled Samir

Course Coordinator: Assoc. prof. Khaled Samir

Head of Department: Assoc. prof. Hend Elsayed Gadow

Date of Approval: 8/2023



وزارة التعليم العالى المعهد العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Physical Chemistry

A. Basic Information

Program Title	Chemical Engineering
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	CHE 122
Year/ Level	One
Specialization	Major
Authorization data of course report	7/2023
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
reaching hours	2	-	2	3

B. Specialized information:

1. Statistics

Subject		Percentage	
Students attending the course	Students attending the course		
Students completing the course	100%		
Results	Passed	73.49%	
Results	Failed	26.51%	
	Excellent	16.9%	
Creating of an acceptal standards	Very Good	6%	
Grading of successful students	Good	13.3%	
	Pass	37.3%	

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



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Physical Chemistry

3	 Chemical kinetics (Rate of reaction) Practical Study of Homogeneous Catalytic Decomposition of H₂O₂ by Initial Rate Method Catalytic decomposition H₂O₂ Determination of The order of the reaction between H₂O₂ and HI 	10	-	20	15
4	Chemical equilibrium	4	-	-	6
5	Surface chemistry (Adsorption) Practical • Adsorption of Oxalic Acid on Charcoal	4	-	4	6
6	Chemical thermodynamic	2	-	-	3
	Total	28	-	28	42

- 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
1	Gases (Ideal gas, real gas)	x	X								X				



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Physical Chemistry

2	Solutions (true and colloidal solutions) Practical The nature of Copper — Ammonia Complex in aqueous Solution	х	X							X
3	Chemical kinetics (Rate of reaction) Practical	x	X		X					X
4	Chemical equilibrium	X	x							x
5	Surface chemistry (Adsorption) Practical • Adsorption of Oxalic Acid on Charcoal	X	X							х
6	Chemical thermodynamic	x	X		X					



وزارة التعليم العالى المعهد العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Physical Chemistry

- 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:

	Constraints	
No constraints		

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	33.33%

6- Course enhancement suggestions

No.	Suggestions
1	Cooperate with some companies to exhibit the modern technology for students.

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

No.	Comments
1	فى توصيف البرنامج تم تخصيص 60درجة للامتحانات الدورية و 75درجة للامتحان النهائى المجموع الكلى135
	المجموع الكلى المكتوب 175 فبرجاء المراجعة و تصحيح الخطأ
2	في توصيف المقرر تم تخصيص 70درجة للامتحان العملي و هي غير موجودة في توصيف البرنامج و غالبا هذا هو سبب
	الخطأ في النقطة أعلاه
3	تم تخصيص 2ساعة للمحاضرات و 2ساعة معمل و لم يخصص أى ساعات للتمارين!!
4	بالنسبة للوسائل المستخدمة للتعليم و التعلم تم ذكر الاحتياج إلى Presenter و هي كلمة غير مفهومة

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

No.	Suggestions
1	None



وزارة التعليم العالى المعهد العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Physical Chemistry

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

No.	Suggestions	Reasons
1	Simulate a model for any type of reaction.	Lack of semester time

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

No.	Suggestions
1	Studying practically how to determine the reaction order and half life time for
	chemical reactions.

11- Action plan for next academic year

No.	Areas of	Description of	Completion	Person responsible
	development	development	date	
1	Adding some	Increase the number	2023-2024	Institute
	scientific reference	of references that		management
	in the electronic	deals with reaction		
	library of the	mechanism		
	institute.			

Course Coordinator: Dr. Mohamed Fakeeh

Head of Department: Assoc.prof. Hend Elsayed Gadow

Date of Approval: 7/2023





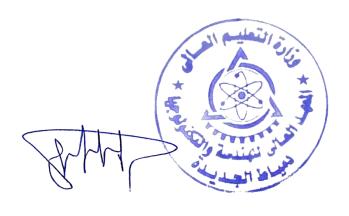
تقارير المقررات قسم الهندسة الكيميائية

إعتماد مجلس القسم لتقارير المقررات قسم الهندسة الكيميائية

بتاريخ 2023/8/28

إعتماد المجلس العلمي لتقارير المقررات قسم الهندسة الكيميائية

بتاریخ 6/11/2023





وزارة التعليم العالي المعهد العالي للهندسة والتكنولوجيا بدمياط الجديدة

2022-2023

تقارير المقررات لقسم الهندسة الكيميائية



Head of the department	Quality Assurance Unit Manager	Dean of the institute
Hen	Cy CN, L'a	SHA
Assoc.Prof.Dr./ Hend Elsayed Gadow	Assoc.Prof.Dr./ Ramadan Abdelghany Elkateb	Prof.Dr./ Osami Elsaeed Rageh



وزارة التعليم العالي المعهد العالي للهندسة والتكنولوجيا بدمياط الجديدة



الفرقة الثانية



وزارة التعليم العالى المعهد العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report Engineering Probability and Statistics

A. Basic Information:

Program Title	Chemical Engineering		
0	<u> </u>		
Department offering the Program	Chemical Engineering Department		
Department Responsible for the	Basic Science and Engineering Department		
Course			
Course Code	BAS211		
Year/ Level	Level 2		
Specialization	Major		
Authorization data of course report	2/2023		
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
Teaching nours	2	2	-	4

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		246	100%
Students completing the course		246	100%
December	Passed	234	95.12%
Results	Failed	12	4.88%
	Excellent	56	22.8%
Conding of an acceptal students	Very Good	52	21.2%
Grading of successful students	Good	48	19.5%
	Pass	78	31.7%

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Probability theory.	4	4	-	12
2	Discrete and continuous probability distributions.	6	6	1	12
3	Statistics in engineering.	4	4	-	10
4	Descriptive Statistics Sampling distributions. Estimation and confidence intervals	2	2	-	12
5	Hypothesis testing. Simple	12	12	-	10



وزارة التعليم العالى المعهد العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report Engineering Probability and Statistics

regression.				
Total	28	28	-	56

- 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
	Total	100

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	$\sqrt{}$

4- Administrative Constraints:

No.	o. Constraints	
1		

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	81.65%



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report Engineering Probability and Statistics

6- Course enhancement suggestions

No.	Suggestions	
1	Enhancement lecture presentation.	

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	Increase Problems (Development and increase sheets)

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 of the action plan in the previous year?

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

11- Action plan for next academic year

No.	Areas of	Description of	Completion	Person responsible
	development	development	date	
1	Lecture	Add engineering	2023-2024	Dr Samar Madin
	Presentation	applied problems to		
		increase discussion		
		and interaction		
		between students		
		and lecturer		

Course Coordinator: Dr: Samar Madin

Head of Department: Associate prof. Amal Behary

Date of Approval: 2/2023



A. Basic Information

Program Title	Chemical Engineering
Department offering the Program	Chemical Engineering Department
Department Responsible for the	Basic Science and Engineering Department
Course	
Course Code	BAS212
Year/ Level	Level 2
Specialization	Major
Authorization data of course report	2/2023
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	1	1	4

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		241	100.0%
Students completing the course		241	100%
D 14	Passed	226	93.78%
Results	Failed	15	6.22%
	Pass	82	34%
Grading of	Good	67	27.8%
successful students	Very Good	55	22.8%
	Excellent	22	9.1%

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



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
	Total	28	14	14	56

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

- Lecturers commitment of the course content: 98 %

- Used Teaching and Learning Methods

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

- 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	Choice
1	Lecture Classroom	\checkmark
2	White Board	√
3	Data Show System	√
4	Electronic learning	~
	model	
5	Presenter	$\sqrt{}$

No.	Facility	Choice
6	Sound System	\checkmark
7	Wire-Internet	
8	Wireless Internet	



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	The course is expanded from theoretical and software engineer views to include a
	piratical work view the course.
2	Increase collaborative teaching to solve practical tasks and increase field visits

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	More field visits for more learning about the course	Increasing understanding of
		the course

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

No.	Areas of	Description of	Completion	Person responsible
	development	development	date	
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



11- Action plan for next academic 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	2023-2024	Assoc. Prof. Mohamed Gabr, Prof. Mohamed Elkiki

Course Coordinator: Assoc. Prof. Mohamed Gabr, Prof. Mohamed Elkiki.

Head of Department: Assoc. Prof. Amal Elbehairy.

Date of Approval: 2/2023



وزارة التعليم العالى المعهد العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Engineering Economy

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	BAS213
Year/ Level	Level 2
Specialization	Major
Authorization data of course report	2/2023
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	1	-	3

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course	248	100%	
Students completing the course	248	100%	
Dogulto	Passed	214	86.29%
Results	Failed	34	13.71%
	Excellent	14	5.6%
Crading of avagageful students	Very Good	23	9.3%
Grading of successful students	Good	47	19%
	Pass	130	52.4%

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
	Total	28	14	-	42



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Engineering Economy

- 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	77.18%

6- Course enhancement suggestions

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

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

No.	Comments
1	يجب توحيد كتابة المراجع وتحديثها وكتابها بشكل سليم باحتوائها على كل اسم دار النشر وسنة
	الاصدار ورقم الاصدار.



وزارة التعليم العالى المعهد العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Engineering Economy

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

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		

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.	Areas of	Description of	Completion	Person
110.	development	development	date	responsible
1	Updating the course's		2022-2023	Scientific
	educational resources			departments
2	-Increase Case studies implementation according to social's needed	1-Divided Students' groups 2-Evaluation projects		staff

11- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
	Make a visit to banks to learn how to calculate household, quarterly and semi- annual interest and the value of profits.		2023-2024	staff

Course Coordinator: Dr. Rania H.Elabd

Dr. Hany Hashish

Head of Department: Assoc.prof. Amal Elbehairy

Date of Approval: 2/2023



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Heritage of Egyptian Literature

A. Basic Information

Program Title	Chemical Engineering			
Department offering the Program	Chemical Engineering Department			
Department Responsible for the Course	Chemical Engineering Department			
Course Code	BAS214			
Year/ Level	Level 2			
Specialization	Major			
Authorization data of course report	2/2023			
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
reaching hours	2	-	1	3

B. Specialized information:

1. Statistics

Subject			Percentage
Students attending the course		60	100%
Students completing the cour	rse	60	100%
Results	Passed	60	100%
Results	Failed	0	0%
	Excellent	42	70%
Grading of successful	Very Good	8	13.3%
students	Good	7	11.7%
	Pass	3	5%

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



Annual Course Report: Heritage of Egyptian Literature

	التراثية المصرية من منظور تاريخي متجدد ـ دراسـة مفهوم وضعية العصور الوسطى في مصر والفرق بينها وبين العصور الوسطى في أوروبا ـ التراث الجغرافي المصري وأدب الرحلة في كتابات مصرية	6	-	<u>-</u>	9
3	التأليف الموسوعي في مصر والصياغة الأدبية في فن الموسوعات _ الظواهرالأدبية 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 أدب 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 سناءالملك وصولا إلى أدوار الدكتور محمد كامل حسين والأستاذ أمين الخولى والدكتور جمال حمدان في تناول التراث الأدبي المصري بالتحليل والدراسة المنهجية حول عبقرية المكان.	4	-	-	6
	Total	28	-	-	42

- Topics taught as a percentage of the content specified: 96%

- Lecturers commitment of the course content: 96%

Used Teaching and Learning Methods



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Heritage of Egyptian Literature

1	تعريف الطالب بالتميز الإقليمي لمصر في العصور القديمة والوسطى والحديثة وأثر عبقرية المكان على الفكر والوعى المصري وتجلياته في التراث الأدبي شعرا ونثرا من خلال الدرس التاريخي والنصبي للأدب المصري في مراحله المختلفة.	x	x		X				
2	مصر وتراثها الأدبي من منظورحضاري وإبداعي - المكتبة التراثية المصرية من منظور تاريخي متجدد - دراسة مفهوم وضعية العصورالوسطى في مصر والفرق بينها وبين العصور الوسطى في أوروبا - التراث البغرافي المصري وأدب الرحلة في كتابات مصرية	x	x		X				
3	التأليف الموسوعي في مصر والصياغة الأدبية في فن الموسوعات فن الظواهرالأدبية الغالبة على الأدب المصري - مناهج دراسة المتراث 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		



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Heritage of Egyptian Literature

5	تتبع التطبيق على النص والتحليل من خلال أبرز والتحليل من خلال أبرز المصري من أمثال ابن نباته المصري وابن سناءالملك وصولا 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					x				
---	---	---	---	--	---	---	--	--	--	--	---	--	--	--	--

- 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	89.25%

6- Course enhancement suggestions

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



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Heritage of Egyptian Literature

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

No.	Comments
1	بالنسبة للوسائل المستخدمة للتعليم والتعلم تم ذكر الاحتياج إلىPresenter وهي كلمة غير مفهومة.

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

No.	Suggestions
1	Self-learning: (Enhance searching).

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	Self-learning tasks to enhance searching

11- Action plan for next academic year

No.	Areas of	Description of	Completion	Person responsible
	development	development	date	
1	Use the digital	Allocate part of the	2023-2024	Dr. Mohammed
	library for	lectures in the digital		ElBindary
	research	library		

Course Coordinator: Dr. Mohammed El-Bindary Head of Department: Assoc. Prof. Dr. Hend Gadow

Date of Approval: 2/2023



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Chemical Engineering Principles I

A. Basic Information

Program Title	Chemical Engineering
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	CHE211
Year/ Level	Level 2
Specialization	Major
Authorization data of course report	2/2023
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	-	5

B. Specialized information:

1. Statistics

Subject		Percentage
Students attending the course		100%
Students completing the course		100%
D14	Passed	87.1%
Results	Failed	12.9%
	Excellent	3.2%
	Very Good	6.5%
Grading of successful students	Good	27.4%
	Pass	50%

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Units and dimensions	4	4	-	10
2	Basic concepts of material balances	8	8	-	20
3	Balances on non-reactive and reactive processes	12	12	-	28
4	Application of material balances on unit operations.	4	4	-	12
	Total	28	28	-	70

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



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Chemical Engineering Principles I

- 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	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:

	emores required for reading and E		'8 '
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	There are no constraints

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	50%

6- Course enhancement suggestions

No.	Suggestions
1	Introducing real models of industrial applications.

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

No.	Comments
1	يجب ان يتم مراجعة اهداف المقرر وكذلك مخرجات التعلم حيث انه لا علاقة لهم بمحتوى المقرر
2	في اهداف المقرر تم ذكر addressing process dynamic and control challenges والذي لايمكن ان يكون
	من ضمن اهداف المقرر الموجود في هذه المرحلة من الدراسة
3	ما هو المقصود بكلمة Presenter الموجودة في اغلب المواد تحت الطرق أو الوسائل المستخدمة في التعليم والتعلم

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

No.	Suggestions
1	Opening the field for brainstorming and discussion about the topics of the
	curriculum.
2	Integrating work experiences with education.

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

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

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

No.	Suggestions
1	Review writing references for courses in a uniform style

11- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Relate the theoretical study	Visits to different plants.	2023-2024	Institute management
	by the practical field			

Course Coordinator: Dr. Sohier Abo Bakr

Head of Department: Asso.prof. Hend Elsayed Gadow

Date of Approval: 2/2023



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: material science and metallurgy

A. Basic Information

Program Title	Chemical Engineering
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	CHE 212
Year/ Level	Level 2
Specialization	Major
Authorization data of course report	2/2023
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
reaching nours	2	2	-	3

B. Specialized information:

1. Statistics

Subject	Percentage	
Students attending the course	100%	
Students completing the course	100%	
Dogulta	Passed	95.16%
Results	Failed	4.84%
	Excellent	29%
C	Very Good	32.3%
Grading of successful students	Good	21%
	Pass	12.9%

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



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: material science and metallurgy

Total	28	28	-	42

- 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
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								



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

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
	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		

4- Administrative Constraints:

No.	Constraints		
1	-		

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	86.22%

6- Course enhancement suggestions

No.	Suggestions
1	Make some scientific visits plants
2	Increase the simulation model for material

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

No.	Comments
1	برجاء مراجعة مخرجات التعلم
2	ما هو المقصود بكلمة Presenterالموجودة في أغلب المواد تحت الطرق أوالوسائل المستخدمة في التعليم و التعلم؟

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

No.	Suggestions
1	Increase the problems in the course

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

No.	Suggestions	Reasons
1	-	_



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: material science and metallurgy

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

No.	Suggestions
1	Studying practically how to determine the molecular weight of polymer and know
	the actual processing sequences for casting processes.

11- Action plan for next academic year

No.	Areas of		Description of	Completion	Person responsible
	development		development	date	
1	Integrating	work	Increased visits to	2023-2024	Institute
	experiences	with	metallurgy-related		management
	education.		plants		

Course Coordinator: Assoc.prof. Hend Elsayed Gadow Head of Department: Assoc.prof. Hend Elsayed Gadow

Date of Approval: 2/2023



Annual Course Report: Principles of engineering design

A. Basic Information

Program Title	Chemical Engineering
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	CHE213
Year/ Level	Level 2
Specialization	Major
Authorization data of course report	4/2023
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	
reaching hours	2	2	-	3	

B. Specialized information:

1. Statistics

Subject	Percentage				
Students attending the course		100%			
Students completing the course	Students completing the course				
Dogulta	Passed	91.67%			
Results	Failed	8.33%			
	Excellent	5%			
Crading of avecageful students	Very Good	18.3%			
Grading of successful students	Good	18.3%			
	Pass	50%			

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	2	2	-	3
	Design Process				
	Common Dimensioning Terminology				
	Standards and Codes				



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

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 Sliding Contact Bearings	6	6	-	9
	Journal Bearings Gear Drives	2	2	-	3
	Total	28	28	-	42

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



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

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	х			х	х	х							



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

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	х	X		х	Х	х				

- Student evaluation:

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



Annual Course Report: Principles of engineering design

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	65.25%

6- Course enhancement suggestions

No.	Suggestions
1	Integrating work experiences with education.
2	Student participation in research and information collection.
3	Allocate time within the lecture to ask questions about the previously explained
	topics.

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

No.	Comments
1	بالنسبة لطرق التدريس والتعلم للطلبة من ذوى الاحتياجات الخاصة فقد تم ذكر Wed communication
	with studentsما هو المقصود بكلمة Wed ؟ هل المقصود Web ؟
2	ما هو المقصود بكلمة Presenter الموجودة في أغلب المواد تحت الطرق أو الوسائل المستخدمة في التعليم
	و التعلم؟

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

No.	Suggestions
1	Encouraging them to link academic learning with workplace learning

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

No.	Suggestions	Reasons	
1	Reduce the theoretical part	For its importance to	
		understand and pave the	
		subject	

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

No.	Suggestions
1	Holding a training course on the zoom program.



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Principles of engineering design

11- Action plan for next academic year

No.	Areas of	Description of	Completion	Person responsible
	development	development	date	
1	Giving enough time	By asking questions	2023-2024	Dr. Yasser Tawfic
	during the lecture	and discussing the		
	for discussion	answers		

Course Coordinator: Dr. Yasser Tawfic

Head of Department: Assoc.prof. Hend Elsayed Gadow

Date of Approval: 4/2023



Annual Course Report: Numerical Methods in Engineering

A. Basic Information:

Program Title	Chemical Engineering	
Department offering the Program	Chemical Engineering Department	
Department Responsible for the	Basic Science and Engineering Department	
Course		
Course Code	BAS221	
Year/ Level	Level 2	
Specialization	Major	
Authorization data of course report	7/2023	
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
Teaching nours	2	2	-	4

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course	240	100%	
Students completing the course	240	100%	
Dogulto	Passed	230	95.83%
Results	Failed	10	4.17%
	Excellent	65	27.1%
	Very Good	51	21.2%
Grading of successful students	Good	64	26.7%
	Pass	50	20.8%

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
	Total		28	-	56



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	V
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
	Total	100

3. Facilities Required for Teaching and Learning:

No.	Facility	Choice
1	Lecture Classroom	$\sqrt{}$
2	Lab Facilities	$\sqrt{}$
3	White Board	$\sqrt{}$
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	

4- Administrative Constraints:

No.	Constraints	
1		

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	81.7%



وزارة التعليم العالى المعهد العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Numerical Methods in Engineering

6- Course enhancement suggestions

No.	Suggestions	
1	Enhancement lecture presentation.	

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

No.	o. Comments	
1		

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

No.	Suggestions	
1	Increase problems and exercises.	

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 of the action plan in the previous year?

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

11- Action plan for next academic year

No.	Areas of	Description of	Completion	Person responsible
	development	development	date	
1	Lecture	Add engineering	2023-2024	Dr Samar Madin
	Presentation	applied problems to		
		increase discussion		
		and interaction		
		between students		
		and lecturer		

Course Coordinator: Dr: Samar Madin

Head of Department: Associate prof. Amal Behary

Date of Approval: 7/2023



Annual Course Report: Chemical Engineering Principles II

A. Basic Information

Program Title	Chemical Engineering
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	CHE221
Year/ Level	Level 2
Specialization	Major
Authorization data of course report	7/2023
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
reaching hours	3	2	-	5

B. Specialized information:

1. Statistics

Subject		Percentage
Students attending the course		100%
Students completing the course		100%
Results	Passed	95.16%
Results	Failed	4.84%
	Excellent	16.1%
Grading of successful students	Very Good	25.8%
Grading of successful students	Good	33.9%
	Pass	19.4%

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



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Chemical Engineering Principles II

5	Introduction to basic Chemical				• 0
	Engineering processes (e.g. humidification, binary distillation,	12	8	-	20
	extraction)				
6	Computer-aided process design.	6	4	-	10
	Total	42	28	-	70
	Total	42	20	-	70

- 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
1	Simultaneous material and energy balances of complete process flow sheets.	X	х			х	х								
2	Introduction of computer methods to solve chemical engineering problems.	X	X				Х	X							
3	Equation-based approach and Degrees of freedom analysis.	X	X				х								
4	Conceptual design of chemical processes	X	X			X	X								



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Chemical Engineering Principles II

5	Introduction to basic Chemical Engineering processes (e.g. humidification, binary distillation, extraction).	Х	X		х	х					
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	72.7%

6- Course enhancement suggestions

No.	Suggestions
1	Applications of material and energy balance in actual industrial plants

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

No.	Comments
1	يجب أن يتم مراجعة أهداف المقرر و كذلك مخرجات التعلم حيث أنه لا علاقة له بمحتوى المقرر



Annual Course Report: Chemical Engineering Principles II

	2	ما هو المقصود بكلمة Presenter الموجودة في أغلب المواد تحت الطرق أوالوسائل المستخدمة في التعليم
		والتعلم ؟
=	3	فى أهداف المقرر تم ذكر
		addressing process dynamic and control challenges الذى لا يمكن أن يكون من ضمن أهداف المقرر الموجود في هذه المرحلة من الدراسة

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

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

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	references for course in a uniform style

11- Action plan for next academic year

No.	Areas of	Description of	Completion	Person responsible
	development	development	date	
1	Use programs in the course	Apply hsyss for solving problems	2023-2024	Dr. Sohier Abo Bakr

Course Coordinator: Dr. Sohier Abo Bakr

Head of Department: Assoc.prof. Hend Elsayed Gadow

Date of Approval: 7/2023



Annual Course Report: chemical engineering thermodynamics

A. Basic Information

Program Title	Chemical Engineering
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	CHE222
Year/ Level	Level 2
Specialization	Major
Authorization data of course report	8/2023
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	1	4

B. Specialized information:

1. Statistics

Subject	Percentage	
Students attending the course	100%	
Students completing the course	100%	
Dogulta	Passed	87.1%
Results	Failed	12.9%
	Excellent	14.5%
Chading of guagastul students	Very Good	16.1%
Grading of successful students	Good	30.6%
	Pass	25.8%

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Thermodynamic properties of homogeneous mixtures Practical	8	4	4	6
2	Partial Molal Properties Practical Heat of Fusion of Ice	4	4	2	8



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: chemical engineering thermodynamics

3	Gibbs-Duhem Equations – Activity Coefficient Practical Heat of Solution	2	4	2	6
4	Fugacity. Ideal and non-ideal solutions Practical Heat of Neutralization	4	4	6	8
5	Heat effect of mixing	2	4		7
6	Excess properties	2	2		8
7	Phase equilibria – miscible systems	4	4		7
8	Chemical reaction equilibria	2	2		6
	Total	28	28	14	56

- Topics taught as a percentage of the content specified: 92%

- Lecturers commitment of the course content: 97%

- 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	Thermodynamic properties of homogeneous mixtures Practical Calibration of the Calorimeter Specific Heat Capacity of an Unknown Metal	x	x												x
2	Partial Molal Properties Practical	X	X			X									х



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: chemical engineering thermodynamics

	Heat of Fusion of Ice									
3	Gibbs-Duhem Equations – Activity Coefficient Practical Heat of Solution	x	x							x
4	Fugacity. Ideal and non-ideal solutions Practical Heat of Neutralization	x	X		х					х
5	Heat effect of mixing	х	X							
6	Excess properties	x	X		х					
7	Phase equilibria – miscible systems	х	X							
8	Chemical reaction equilibria	Х	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:

	1		8
No.	Facility	No.	Facility
1	Lecture classroom	5	Data show system
2	Presenter	6	Sound system
3	White board		
4	Lab		



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: chemical engineering thermodynamics

4- Administrative Constraints:

	Constraints	
No constraints		

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	74.12%

6- Course enhancement suggestions

No.	Suggestions
1	Make a training program for the students on actual thermodynamic cycle

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

No.	Comments
1	ما هو المقصود بكلمةPresenter الموجودة في أغلب المواد تحت الطرق أو الوسائل المستخدمة في التعليم و التعلم؟ إذا
	كان المقصود هو عضو هيئة التدريس فهو من التأكيد لا يمكن إعتباره من ضمن الوسائل المستخدمة في التعليم و التعلم

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

No.	Suggestions
1	Improve lecture notes

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

No.	Suggestions	Reasons	
1	Making some visits for petrochemical factories.	Lack of academic time.	

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

No.	Suggestions
1	Conducting a training course on the use of thermodynamic theories in industry.

11- Action plan for next academic year

No.	Areas of development	Description of	Completion	Person
		development	date	responsible
1	Applying the	Making some visits	2023-2024	Institute
	thermodynamic	for petrochemical		management
	principles practically at	factories.		
	large scale.			

Course Coordinator: Dr. Mohamed Elbendary

Head of Department: Assoc.prof. Hend Elsayed Gadow

Date of Approval: 8/2023



Annual Course Report: Analytical chemistry

A. Basic Information

Program Title	Chemical Engineering
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	CHE223
Year/ Level	Level 2
Specialization	Major
Authorization data of course report	7/2023
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
reaching hours	2	-	2	4

B. Specialized information:

1. Statistics

Subject		Percentage	
Students attending the course		100%	
Students completing the course		100%	
Results	Passed	98.36%	
Results	Failed	1.64%	
	Excellent	19.7%	
Crading of successful students	Very Good	31.1%	
Grading of successful students	Good	24.6%	
	Pass	23%	

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



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Analytical chemistry

2	 Titrimetric Methods of Analysis Practical Mohr's method for determining chloride EDTA standardization against metallic magnesium Determination of magnesium using eriochrome black T indicator Determination of aluminium using EBT as indicator (back – titration) 	8	-	10	16
3	Gravimetric Methods of Analysis	4		6	0
	Practical	4	-	6	8
	Gravimetric Analysis				
4	Evaluating Analytical Data	8	-	-	16
5	Instrumental chemical analysis				
	Practical			_	_
	Conductimetry	4	-	8	8
	PH meters				
	Spectrophotometer				
	Total	28	28	-	56

- Topics taught as a percentage of the content specified: 93%

- Lecturers commitment of the course content: 94%

Used Teaching and Learning Methods

وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

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	пем Баппеца										ľ				
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	Basic tools in analytical chemistry Practical • Preparation of Standard Solution of solid salt • Preparation of a Standard Solution of concentrated Acid	x	х			x				J.	J.				X
2	Titrimetric Methods of Analysis Practical Mohr's method for determining chloride EDTA standardization against metallic magnesium Determination of magnesium using eriochrome black T indicator Determination of aluminium using EBT as indicator (back –titration)	X	X												X



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Analytical chemistry

3	Gravimetric Methods of Analysis Practical Gravimetric Analysis	x	X							X
4	Evaluating Analytical Data	X	X		X					
5	Instrumental chemical analysis Practical	x	х					X		X

- 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 of	classroom	5	Data show system
2	Presenter		6	Sound system
3	White bo	ard		
4	Lab			

4- Administrative Constraints:

No.	Constraints
1	There are no constraints

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	84.68%

6- Course enhancement suggestions

No.	Suggestions
1	Using modern techniques, technology and multimedia



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Analytical chemistry

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

No.	Comments
1	مراجعة الدرجات المخصصة للمادة في توصيف البرنامج حيث أن مجموع الدرجات (40+10+60) هو 110
	بينما المكتوب أن المجموع (100)
2	نفس الخطأ المذكور أعلاه موجود في توصيف المقرر
3	ما هو المقصود بكلمة Presenter الموجودة في أغلب المواد تحت الطرق أو الوسائل المستخدمة في التعليم و التعلم؟ إذا كان المقصود هو عضو هيئة التدريس فهو من التأكيد لا يمكن إعتباره من ضمن الوسائل المستخدمة
	التعلم؟ إذا كان المقصود هوعضو هيئة التدريس فهو من التأكيد لا يمكن إعتباره من ضمن الوسائل المستخدمة
	في التعليم و التعلم.

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

No.	Suggestions
1	Dividing them into groups to search about some scientific topics related to the
	subject

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

No.	Suggestions	Reasons
1	Increasing the number of lab experiments	The number of experiments
		is comprehensive and
		sufficient for the time
		specified for the academic
		year

10- What has been implemented of 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	Description of	Completion	Person responsible
	development	development	date	
1	Emphasis on	By discussing during	2023-2024	Assoc. prof. Hend
	linking the	the lecture what has		Gadow
	practical part with	been concluded		
	the theoretical part	practically in lab		
		hours		

Course Coordinator: Assoc. prof. Hend Gadow Head of Department: Assoc. prof. Hend Gadow

Date of Approval:7/2023



Annual Course Report: Process Dynamics and Control

A. Basic Information

Program Title	Chemical Engineering
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	CHE 224
Year/ Level	Level 2
Specialization	Major
Authorization data of course report	7/2023
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
reaching hours	2	2	-	4

B. Specialized information:

1. Statistics

Subject		Percentage
Students attending the course		100%
Students completing the course		100%
Dogulta	Passed	82.26%
Results	Failed	17.74%
	Excellent	4.8%
Cuadina of an accasalul atu danta	Very Good	8.1%
Grading of successful students	Good	22.6%
	Pass	46.8%

	ourse reaching.				
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
4	Process dynamics (first, second and higher orders)	2	2	-	4



Annual Course Report: Process Dynamics and Control

	Total	28	28	-	56
8	System stability (algebraic and graphical methods).	4	4	•	8
7	Controller mechanism and optimum setting	4	4	-	8
6	Two-position controller and Three-term controller	4	4	-	8
5	Measuring and actuating elements	4	4	-	8

- 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								
2	Classification of control action (openloop and closed-loop, feed-back and feedforward, process and position control)	X	X		х	X	Х								
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								



Annual Course Report: Process Dynamics and Control

5	Measuring and actuating elements	X	X	Х		X				
6	Two-position controller and Three-term controller	х	х	X	Х	X				
7	Controller mechanism and optimum setting	Х	Х	X	X	X				
8	System stability (algebraic and graphical methods).	X	x	х	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	76.17%

6- Course enhancement suggestions

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



Annual Course Report: Process Dynamics and Control

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

No.	Comments
1	المادة موجودة مبكرا جدا في الجدول الدراسي للطالب من المفضل أن يدرس الطالب هذه المادة في الفصل الدراسي
	الثاني من العام الثالث و من الأفضل تدريسها في السنة النهائية. كيف يدرس الطالب CHE224في نفس الفصل الدراسي
	الذي يدرس فيه CHE221 .و كذلك كيف يمكن تدريس المادة قبل أن يدرس مادة CHE324 يجب تعديل ذلك في أول
	فرصة لتعديل اللائحة الدراسية
2	يجب مراجعة مخرجات التعلم المقرر
3	في محتوى المقرر تم ذكر القيام ببعض التجارب و لا يوجد في المقرر ساعات مخصصة للتجارب المعملية
4	ما هو المقصود بكلمة Presenter الموجودة في أغلب المواد تحت الطرق أو الوسائل المستخدمة في التعليم و التعلم؟ إذا
	كان المقصود هو عضو هيئة التدريس فهو من التأكيد لا يمكن إعتباره من ضمن الوسائل المستخدمة في التعليم و التعلم.
	ما هو المقصود بكلمة Presenterالموجودة في غلب المواد تحت الطرق أو الوسائل المستخدمة في التعليم و التعلم؟ إذا
	كان المقصود هو عضو هيئة التدريس فهو من التأكيد لا يمكن إعتباره من ضمن الوسائل المستخدمة في التعليم و التعلم

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

No.	Suggestions		
1	Improve lecture notes		

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

No.	Suggestions
1	None

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

No.	Suggestions
1	Increasing the application and discussion aspect with students.

11- Action plan for next academic year

No.	Areas of	Description of	Completion	Person
	development	development	date	responsible
1	Making some	Understanding how the	2023-2024	Institute
	scientific visits to	process control is at		management
	petrochemical	large scale.		
	factories.			

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

Head of Department: Assoc.prof. Hend Elsayed Gadow

Date of Approval: 7/2023



Annual Course Report: Heat Transfer

A. Basic Information

Program Title	Chemical Engineering			
Department offering the Program	Chemical Engineering Department			
Department Responsible for the Course	Chemical Engineering Department			
Course Code	CHE225			
Year/ Level	Level 2			
Specialization	Major			
Authorization data of course report	8/2023			
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	1	3

B. Specialized information:

1. Statistics

Subject		Percentage
Students attending the course		100%
Students completing the course		100%
Results	Passed	83.61 %
Results	Failed	16.39 %
	Excellent	13.1 %
Crading of guagastyl students	Very Good	11.5 %
Grading of successful students	Good	26.2 %
	Pass	32.2 %

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 Practical Radial heat conduction	4	4	2	6



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Heat Transfer

4	External ,internal flow convection Practical Linear heat conduction	4	4	2	8
5	heat exchangers Practical Extended surface heat transfer	8	8	6	6
	Total	28	28	14	42

- Topics taught as a percentage of the content specified: 89%
- Lecturers commitment of the course content: 97%

- 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	Introduction to heat transfer: conduction ,convection ,thermal radiation Practical Heat exchanger training equipment	x	X			X					x				
2	The heat diffusion equation : Cartesian ,cylindrical ,spherical coordiates Practical Shell & tube heat exchanger	x	x												
3	One dimensional St.St conduction Practical	x	X			X	X								X



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Heat Transfer

	Radial heat conduction									
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
	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:

No.	Constraints
1	-

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	63.38%

6- Course enhancement suggestions

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



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Heat Transfer

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

No.	Comments
1	يجب أن يتم مراجعة أهداف المقرر و كذلك مخرجات التعلم حيث أنه لا علاقة له بمحتوى المقرر.
2	فى محتوى المقرر تم ذكر أنه يوجد ساعات للمعمل فى الخمس مواضيع المكونة للمقرر إلا أنه عند تحديد وسائل التعليم و التعلم تم ذكر المعمل فى موضوع واحد فقط من الخمس مواضيع المقررة . برجاء لمراجعة والتصحيح.
3	ما هو المقصود بكلمة Presenter الموجودة في أغلب المواد تحت الطرق أو الوسائل المستخدمة في التعليم و التعلم؟ إذا كان المقصود هو عضو هيئة التدريس فهو من التأكيد لا يمكن إعتباره من ضمن الوسائل المستخدمة في التعليم و التعلم.

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

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

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

No.	Suggestions	Reasons
1	Making some visits for petrochemical plants.	Lack of academic time.

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

No.	Suggestions
1	Conducting a training course on the use of heat transfer theories in industry.

11- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Applying heat transfer principles practically at large scale.	Making some visits for petrochemical plants.	2023-2024	Institute management

Course Coordinator: Dr. Riham Atef

Head of Department: Assoc. prof. Hend Elsayed Gadow

Date of Approval: 8/2023





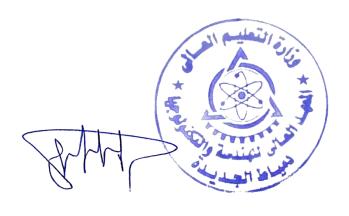
تقارير المقررات قسم الهندسة الكيميائية

إعتماد مجلس القسم لتقارير المقررات قسم الهندسة الكيميائية

بتاريخ 2023/8/28

إعتماد المجلس العلمي لتقارير المقررات قسم الهندسة الكيميائية

بتاریخ 6/11/2023





2022-2023

تقارير المقررات لقسم الهندسة الكيميائية



Head of the department	Quality Assurance Unit Manager	Dean of the institute
Hen	Cy (N), L'a	JAM -
Assoc.Prof.Dr./ Hend Elsayed Gadow	Assoc.Prof.Dr./ Ramadan Abdelghany Elkateb	Prof.Dr./ Osami Elsaeed Rageh





الفرقة الثالثة



Annual Course Report: Environmental Management

A. Basic Information

Program Title	Chemical Engineering program
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Basic Science and Engineering Department
Course Code	BAS 311
Year/ Level	Level 3
Specialization	Major
Authorization date of course report	2/2023
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	1	-	3

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		129	100%
Students completing the course		129	100%
Dogulta	Passed	126	97.67%
Results	Failed	3	2.33%
	Excellent	26	20.2%
C 1:	Very Good	35	27.1%
Grading of successful students	Good	36	27.9%
	Pass	29	22.5%

No.	Topics	Lecture	Exercise	laboratory	Student load
1	The importance of studying environmental science – modern technology and its effect on the environment		2	-	12
2	quality of the environment and development elements	4	3	-	6



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Environmental Management

3	sources of environmental pollution and method of control (air pollution – water pollution)	8	6	-	12
4	Solid wastes pollution – noise) – economics of environmental pollution control – legislations for the environment protection.	8	3	-	12
	Total		14	-	42

- 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 Methods
1	Lectures
2	Discussion sessions
3	Information collection from different sources
4	Field visits

- Student Assessment:

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

3. Facilities Required for Teaching and Learning:

No.	Facility
1	Seminar
2	Lecture Classroom
3	White Board
4	Data Show system

4- Administrative Constraints:

No.	Constraints
1	



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Environmental Management

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	72.76%

6- Course enhancement suggestions

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

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

No.	Comments
1	No comments

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

No.	Suggestions
1	Increasing student interaction and participation when implementing the course
2	Increase collaborative teaching to solve practical tasks and increase field visits

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

No.	Suggestions	Reasons
1	Field visiting	Annual maintenance work in factories available around us.

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

No.	Areas of	Description of	Completion	Person responsible			
	development	development	date				
1	Adding	Presentation,	2022-2023	Institute management			
	environmental	discussion and					
	impact assessment	approval by the					
	to the course	Scientific Department					
		Council					

11- Action plan for next academic year

No.	Areas of	Description of	Completion	Person responsible
	development	development	date	
2	Visit some water	Provide field visits	2023-2024	Institute management
	treatment plant and			
	renewable energy.			

Course Coordinator: Assoc. Prof. Dr. Ramadan Elkateb **Head of Department:** Assoc. Prof. Dr. Amal Bahiry

Date of Approval: 2/2023



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report:Reactor Design

A. Basic Information

Program Title	Chemical Engineering
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	CHE311
Year/ Level	Level 3
Specialization	Major
Authorization data of course report	3/2023
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	97.83%
Resuits	Failed	2.17%
	Excellent	0%
C	Very Good	2.2%
Grading of successful students	Good	23.9%
	Pass	71.7%

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Fundamentals of thermodynamics and kinetics of chemical reactions		2	-	4
2	Analysis of batch, plug-flow and continuous stirred tank reactors for different types of reactions	4	4	-	8
3	Non ideal reactor analysis, including residence time distribution, back mixing and dispersion models	2	2	-	4



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report:Reactor Design

4	Kinetics of isothermal and nonisothermal ideal reactors.	2	2	-	4
5	Kinetics of heterogeneous or catalytic reactions	4	4	-	8
6	Design of different types of catalytic and non-catalytic reactors	2	2	-	4
7	Mass and energy transfer limitations in heterogeneous reaction systems	2	2	-	4
8	Catalyst effectiveness	4	4	-	8
9	Reactor stability and sensitivity to operating parameters	2	2	-	4
10	Optimization of reactor design and Factors affecting choice of reactors	4	4	-	8
	Total	28	28	-	56

- Topics taught as a percentage of the content specified: 94%
- 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	Fundamentals of thermodynamics and kinetics of chemical reactions	X	X			X					X				
2	Analysis of batch, plug- flow and continuous stirred tank reactors for different	X	X	X		X					X				



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report:Reactor Design

	types of reactions									
3	Non ideal reactor analysis, including residence time distribution, back mixing and dispersion models	X	x		X	X		X		
4	Kinetics of isothermal and non-isothermal ideal reactors.	x	x	X	X	X		X		
5	Kinetics of heterogeneous or catalytic reactions	X	x	X	X	X		X		
6	Design of different types of catalytic and non- catalytic reactors	х	X	X	X	х		X		
7	Mass and energy transfer limitations in heterogeneous reaction systems	х	x	X	X	Х		X		
8	Catalyst effectiveness	X	X	X	X	X		X		
9	Reactor stability and sensitivity to operating parameters	х	X	х	х	х		X		
10	Optimization of reactor design and Factors affecting choice of reactors	X	X	X	X	X		X		

- Student Assessment:

~	110112000011101101	
No.	Evaluation Method	Marks
1	Periodic exams	30
2	Student load	20
3	Final term examination	75
		Total

3. Facilities Required for Teaching and Learning:

No.	Facility	No.	Facility
1	Lecture classroom	4	Data show system



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report:Reactor Design

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	78.05%	

6- Course enhancement suggestions

No.	Suggestions
1	Make visits to industrial plants.

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

No.	Comments
1	ما هو المقصود بكلمة Presenter الموجودة في أغلب المواد تحت الطرق أوالوسائل المستخدمة في التعليم
	و التعلم؟ إذا كان المقصود هو عضو هيئة التدريس فهو من التأكيد لا يمكن إعتباره من ضمن الوسائل
	المستخدمة في التعليم و التعلم.

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

No.	Suggestions
1	Opening the field for brainstorming and discussion about the topics of the
	curriculum.

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.	Action
1	Possessing the skill of storytelling, which is considered one of the skills that most
	increases student participation



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report:Reactor Design

11- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Application of modern teaching methods	Divide the students into groups to present an applied part about the contents of the course	2023-2024	Prof. Dr. / Taha E. Farrag

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

Head of Department: Assoc. Dr. Hend Elsayed Gadow

Date of Approval: 3/2023



Annual Course Report: Operation research

A. Basic Information

Program Title	Chemical Engineering		
Department offering the Program	Chemical Engineering Department		
Department Responsible for the	Chemical Engineering Department		
Course			
Course Code	CHE 312		
Year/ Level	Level 3		
Specialization	Major		
Authorization data of course report	2/2023		
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
reaching hours	2	2	-	4

B. Specialized information:

1. Statistics

Subject	Percentage		
Students attending the course	Students attending the course		
Students completing the course	100%		
D14	Passed	97.83%	
Results	Failed	2.17%	
	Excellent	6.5%	
Grading of successful students	Very Good	41.3%	
	Good	30.4%	
	Pass	19.6%	

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Models and methods of operations research in solving engineering and management problems.	4	4	-	8
2	Linear programming, simplex method, duality, sensitivity analysis	4	4	-	8
3	Transportation, assignment and transshipment models	4	4	-	8



Annual Course Report: Operation research

4	Network flows models and integer programming	4	4	-	8
5	Probabilistic models in operations research problems	4	4	-	8
6	Queuing theory, Markov chain and decision analysis	4	4	-	8
7	Marko vain decision process and utility functions	4	4	-	8
	Total	28	28	-	56

- Topics taught as a percentage of the content specified: 88%
- Lecturers commitment of the course content: 97%

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	Models and methods of operations research in solving engineering and management problems.	X	X			X	X								
2	Linear programming, simplex method, duality, sensitivity analysis	X	X			x	X								
3	Transportation, assignment and transshipment models	X	X			X	X	X							
4	Network flows models and integer programming	X	X			x									



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Operation research

5	Probabilistic models in operations research problems	X	X	X	X				
6	Queuing theory, Markov chain and decision analysis	X	X	X	X				
7	Marko vain decision process and utility functions	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:

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

4- Administrative Constraints:

	Constraints
No constraints	

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	67.33%

6- Course enhancement suggestions

No.	Suggestions
1	Improve lecture notes
2	Integrating work experiences with education.
3	Increasing the scientific references which relates to operation researches.

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

No.	Comments
1	بالنسبة لطرق التدريس و التعلم للطلبة من ذوى الاحتياجات الخاصة فقد تم ذكر Wed communication with
	studentsما هو المقصود بكلمة Wed؟ هل المقصود Web؟
2	ما هو المقصود بكلمةPresenter الموجودة في أغلب المواد تحت الطرق أو الوسائل المستخدمة في التعليم و التعلم؟ إذا



وزارة التعليم العالى المعهد العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Operation research

	هو عضو هيئة التدريس فهو من التأكيد لا يمكن إعتباره من ضمن الوسائل المستخدمة في التعليم و التعلم	كان المقصود
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8- What has been implemented of the student's suggestions in the previous year?

No.	Suggestions
1	This course was not studied in the previous year.

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

No.	Suggestions
1	This course was not studied in the previous year.

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

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

11- Action plan for next academic year

No.	Areas of	Description of	Completion	Person responsible
	development	development	date	
1	Make some visits to	Understanding	2023-2024	Institute
	petrochemical	practically the		management
	factories	application of		
		operation research in		
		petrochemical		
		industry		

Course Coordinator: Dr.Soheir Abubakr

Head of Department: Associate prof. Hend Gadow

Date of Approval: 2/2023



Annual Course Report: Mass Transfer Operations I

A. Basic Information

Program Title	Chemical Engineering					
Department offering the Program	Chemical Engineering Department					
Department Responsible for the Course	Chemical Engineering Department					
Course Code	CHE 313					
Year/ Level	Level 3					
Specialization	Major					
Authorization data of course report	2/2023					
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%	
Dogulto	Passed	100%
Results	Failed	0%
	Excellent	26.1%
	Very Good	26.1%
Grading of successful students	Good	28%
	Pass	19.6%

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Introduction to mass transfer and diffusion- basic definitions (velocity concentration - flux) - molecular diffusion in gases.	4	4	-	8
2	molecular diffusion in liquids - molecular diffusion in gels and biological solutions	4	4		8
3	molecular diffusion in solids	4	4		8



Annual Course Report: Mass Transfer Operations I

4	convective mass transfer- types of mass transfer coefficients - dimensionless groups in mass transfer	2	2	-	4
5	theories of mass transfer- momentum, heat, and mass transfer analogies	4	4	-	8
6	equilibrium between two phases- interphase mass transfer- overall mass transfer coefficients.	4	4	-	8
7	Vapor-liquid equilibria (VLE), binary system distillation (plate and packed columns)	4	4	-	8
8	liquid-liquid extraction.	2	2		4
	Total	28	28	-	56

- Topics taught as a percentage of the content specified: 88%
- Lecturers commitment of the course content: 96%

Used Teaching and Learning Methods

	sed Teaching and Learning	g IVIC	uiou	.5						_					
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	Introduction to mass transfer and diffusion-basic definitions (velocity concentration - flux) - molecular diffusion in gases.	X	X			X									
2	molecular diffusion in liquids - molecular diffusion in gels and biological solutions	X	X			X	X								



Annual Course Report: Mass Transfer Operations I

3	molecular diffusion in solids	x	X	x		X					
4	convective mass transfer- types of mass transfer coefficients - dimensionless groups in mass transfer	x	x	x	x						
5	theories of mass transfer- momentum, heat, and mass transfer analogies	X	x	X	X						
6	equilibrium between two phases- interphase mass transfer- overall mass transfer coefficients.	X	X	X	X	X					
7	Vapor-liquid equilibria (VLE), binary system distillation (plate and packed columns)	X	x	x	x	x		X	x		
8	liquid-liquid extraction.	X	X	X	X	X		x	x		

- Student Assessment:

No.	Evaluation method	Marks
1	Periodic exams	30
2	Student load	20
3	Final term examination	75
	Total	125

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	



Annual Course Report: Mass Transfer Operations I

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	78.48%

6- Course enhancement suggestions

No.	Suggestions
1	Support content information by increasing field visits
2	Include information and examples from practical life to facilitate and clarify the
	idea

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

No.	Comments
1	يجب أن يتم مراجعة أهداف المقرر حيث أنه لا علاقة له بمحتوى المقرر.
2	ما هو المقصود بكلمة Presenter الموجودة في أغلب المواد تحت الطرق أو الوسائل المستخدمة في التعليم و التعلم؟ إذا
	كان المقصود هو عضو هيئة التدريس فهو من التأكيد لا يمكن اعتباره من ضمن الوسائل المستخدمة في التعليم و التعلم.

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

No.	Suggestions
1	Provide field visits
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 of the action plan in the previous year?

No.	Suggestions
1	Relate the theoretical study by the practical field by Visits to petrochemical
	plants.

11- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Ensuring that the students carry out the tasks of self-study	discuss with them that they have reached	2023-2024	Dr. Riham Atef

Course Coordinator: Dr. Riham Atef

Head of Department: Associate prof. Hend Elsayed Gadow

Date of Approval:2/2023



Annual Course Report: Bio-chemistry

A. Basic Information

Program Title	Chemical Engineering		
Department offering the Program	Chemical Engineering Department		
Department Responsible for the Course	Chemical Engineering Department		
Course Code	CHE 314		
Year/ Level	Level 3		
Specialization	Major		
Authorization data of course report	2/2023		
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	
reaching nours	2	2	-	4	

B. Specialized information:

1. Statistics

Subject		Percentage
Students attending the course		100%
Students completing the course		100%
Dogulás	Passed	97.83%
Results	Failed	2.17%
	Excellent	56.5%
Creating of an acceptal stradents	Very Good	17.4%
Grading of successful students	Good	15.2%
	Pass	8.7%

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Principles	4	4	-	8
2	Carbohydrates	4	4	-	8
3	amino acids	4	4	-	8
4	proteins	4	4	-	8
5	Enzymes	2	2		4
6	fatty acids	2	2	-	4
7	oils and fats	4	4	-	8
8	Pharmaceutical compounds.	4	4	-	8
	Total	28	28	-	56



Annual Course Report: Bio-chemistry

- 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
1	Principles of bio chemistry	X	X			X					X				
2	Carbohydrates	X	X			X									
3	Amino acids	X	X			X	X				X				
4	Proteins	X	X			X	X								
5	Enzymes	X	X			X					X				
6	Fatty acids	X	X			X	X								
7	Oils and fats	X	X			X	X								
8	Pharmaceutical compounds	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	4	Data show system
2	Presenter	5	Sound system
3	White board		



Annual Course Report: Bio-chemistry

4- Administrative Constraints:

No.	Constraints
1	

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	80.41%

6- Course enhancement suggestions

No.	Suggestions
1	Using a video presentation system that is related to the topic to increase the
	clarity of the idea.
2	Introducing real models of industrial applications.

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

No.	Comments
1	المادة كان من الممكن وضعها في السنة الثانية بدلا من مادةCHE224
2	برجاء مراجعة الدرجات المخصصة للمادة حيث أنه في توصيف البرنامج تم تخصيص 60درجة من مجموع
	الدرجات للامتحان النهائي بينما في توصيف المقرر تم تخصيص 50 درجة فقط.
3	ما هو المقصود بكلمة Presenter الموجودة في أغلب المواد تحت الطرق أوالوسائل المستخدمة في التعليم و
	التعلم؟ إذا كان المقصود هو عضو هيئة التدريس فهو من التأكيد لا يمكن إعتباره من ضمن الوسائل المستخدمة
	في التعليم و التعلم.

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

No.	Suggestions
1	Integration of more industrial applications to emphasize the topic
2	Improve lecture notes
3	Opening the field for brainstorming and discussion about the topics of the
	curriculum

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	Asking questions for discussion and asking them to search for more applications



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Bio-chemistry

11- Action plan for next academic year

No.	Areas of	Description of	Completion	Person responsible
	development	development	date	
1	Integrating work	Visit industrial plant	2023-2024	Associate prof.
	experiences with	related to		Khaled samir
	education.	biochemistry		

Course Coordinator: Associate prof. Khaled Samir

Head of Department: Associate prof. Hend Elsayed Gadow

Date of Approval: 2/2023



Annual Course Report: Electrochemistry

A. Basic Information

Program Title	Chemical Engineering
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	CHE 315
Year/ Level	Level 3
Specialization	Major
Authorization date of course report	2/2023
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	1	1	3

B. Specialized information:

1. Statistics

Subject		Percentage
Students attending the course		100%
Students completing the course		95.65%
Dogulta	Passed	97.83%
Results	Failed	2.17%
	Excellent	43.5%
C 1:	Very Good	45.7%
Grading of successful students	Good	8.7%
	Pass	0%

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Chemistry and electricity [Electro neutrality - Potential differences at interfaces]	4	2	2	6
2	Electrochemical cells [Transport of charge within the cell-Cell description conventions -Electrodes and electrode reactions]	4	3	3	9



وزارة التعليم العالمالمعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Electrochemistry

3	Standard half-cell potentials [Reference electrodes- Prediction of cell potentials Cell potentials and the electromotive series - Cell potentials and free energy - The fall of the electron]	4	3	3	9
4	The Nernst equation -Concentration cells- Analytical applications of the Nernst equation	4	1	1	3
5	Determination of solubility products- Potentiometric titrations -Measurement of pH -Membrane potentials	4	2	2	6
6	Batteries and fuel cells [The fuel cell]	4	2	2	6
7	Electrochemical Corrosion [Control of corrosion]- Electrolytic cells [Electrolysis involving water - Faraday's laws of electrolysis-]	4	1	1	3
	Total	28	14	14	42

- Topics taught as a percentage of the content specified: 97 %
- Lecturers commitment of the course content: 99 %
- 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	Chemistry and electricity [Electro neutrality - Potential differences at interfaces]	X	X	X		X	X								X



وزارة التعليم العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Electrochemistry

2	Electrochemical cells [Transport of charge within the cell-Cell description conventions Electrodes and electrode reactions]	X	X		x	x	X			X
3	Standard half-cell potentials [Reference electrodes- Prediction of cell potentials-Cell potentials and the electromotive series - Cell potentials and free energy - The fall of the electron]	X	x		x	x		x		x
4	The Nernst equation Concentration cells- Analytical applications of the Nernst equation	X	x	X	X					X
5	Determination of solubility products-Potentiometric	X	X		X	X				X
	titrations - Measurement of pH Membrane potentials									
6	Batteries and fuel cells [The fuel cell]	X	X	X				X		X
7	Electrochemical Corrosion [Control of corrosion]- Electrolytic cells [Electrolysis involving water - Faraday's laws of electrolysis-]	X	X		x	x				x

- Student Assessment:

Stud	ent historiani.	
No.	Evaluation Method	Marks
1	Periodic exams	20
2	Student load	30



وزارة التعليم العالمالمعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Electrochemistry

3	Final term examination	50
	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	Computer lab		

4- Administrative Constraints:

No.	Constraints
1	

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	81.62%

6- Course enhancement suggestions

No.	Suggestions
1	Integrating work experiences with education by field visits.

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

No.	Comments
1	الوسائل المستخدمة في التعليم و التعلم؟ إذا الموجودة في أغلب المواد تحت الطرق أو Presenterما هو المقصود بكلمة
	الوسائل المستخدمة في التعليم و التعلم من التأكيد لا يمكن إعتباره من ضمن كان المقصود هو عضو هيئة التدريس فهو
	و الوسائل. الطرق تلك باستخدام يقوم من هو حيث أنه

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

No.	Suggestions
1	The course not taught the previous year

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	The course not taught the previous year



وزارة التعليم العالمالمعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Electrochemistry

11- Action plan for next academic year

No.	Areas of	Description of	Completion	Person responsible
	development	development	date	
1	Increase some of	Add more	2023-2024	Institute
	scientific reference	electrochemistry		management
	In the library of	references In the		
	the institute	electronic library of		
		the institute		

Course Coordinator: Assoc.prof. Hend Elsayed Gadow Head of Department: Assoc.prof. Hend Elsayed Gadow

Date of Approval: 2/2023



Annual Course Report: air pollution

A. Basic Information

Program Title	Chemical Engineering					
Department offering the Program	Chemical Engineering Department					
Department Responsible for the Course	Chemical Engineering Department					
Course Code	CHE 316E					
Year/ Level	Level 4					
Specialization	Major					
Authorization data of course report	2/2023					
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		
reaching hours	2	2	-	3		

B. Specialized information:1. Statistics

Subject		Percentage
Students attending the course		100%
Students completing the course		100%
D14	Passed	95.65%
Results	Failed	4.35%
	Excellent	30.4%
C 1:	Very Good	30.4%
Grading of successful students	Good	15.2%
	Pass	19.6%

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Source of pollutants	4	4	-	6
2	measurements and equipment design for removal of air pollutants	4	4	-	6
3	Effects of air pollutants	4	4	-	6
4	Dispersion of pollutants in the atmosphere	4	4	-	6
5	Particulate matter and its control equipment	4	4	-	6
6	Atmospheric photochemical reactions	4	4	-	6
7	7 Instrumentation and emission testing equipment		4		6
	Total	28	28	-	42



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: air pollution

- 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
1	Source of pollutants	X	X	X		X									
2	measurements and equipment design for removal of air pollutants	х	x			X	x				X				
3	Effects of air pollutants	х	X			X					X				
4	Dispersion of pollutants in the atmosphere	х	х	х		X									
5	Particulate matter and its control equipment	х	х			X					X				
6	Atmospheric photochemical reactions	х	х			X									
7	Instrumentation and emission testing equipment	х	х			X					X				



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: air pollution

- Student Assessment:

No.	evaluation method	Marks
1	Periodic exams	30
2	Student load	20
3	Final term examination	50
	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		

4- Administrative Constraints:

Constraints		
No constraints		

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	78.98%

6- Course enhancement suggestions

No.	Suggestions
1	Integration of more industrial applications to emphasize the topic

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

No.	Comments
1	يجب أن يتم مراجعة أهداف المقرر و كذلك مخرجات التعلم حيث أنه لا علاقة له بمحتوى المقرر
2	ما هو المقصود بكلمة Presenter الموجودة في أغلب المواد تحت الطرق أو الوسائل المستخدمة في التعليم و التعلم؟ إذا
	كان المقصود هو عضو هيئة التدريس فهو من التأكيد لا يمكن إعتباره من ضمن الوسائل المستخدمة في التعليم و التعلم

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

No.	Suggestions
1	Make scientific sessions with some environmental experts to make the students
	more aware about the latest technologies that cause air pollution

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

No.	Suggestions	Reasons
1	Simulate real models for any industry that causes	Lack of academic time
	air pollution	



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: air pollution

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

No.	Suggestions
1	Increasing the application and discussion aspect with students.

11- Action plan for next academic year

No.	Areas of	Description of	Completion	Person responsible
	development	development	date	
1	Adding some	Increase the number	2023-2024	Institute
	scientific reference	of text books that		management
	in the electronic	deals with pollution		
	library of the	resulted from		
	institute.	modern industries		

Course Coordinator: Dr. Mohamed Elbendary

Head of Department: Associate prof. Hend Elsayed Gadow

Date of Approval: 2/2023



Annual Course Report: Project Management and Control

A. Basic Information

Program Title	Chemical Engineering program		
Department offering the Program	Chemical Engineering Department		
Department Responsible for the Course	Basic Science and Engineering Department		
Course Code	BAS 321		
Year/ Level	Level 3		
Specialization	Major		
Authorization date of course report	9/2023		
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	7/-0/1	4

B. Specialized information:

1. Statistics

Subject	91 1	No.	Percentage
Students attending the course		183	100%
Students completing the course		183	100%
Descrite	Passed	182	99.45 %
Results	Failed	1	0.55 %
	Excellent	95	51.9 %
	Very Good	59	32.2 %
Grading of successful students	Good	18	9.8 %
	Pass	10	5.5 %

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Introduction to project management.	2	2		4
2	Project planning and scheduling.	2	2		4
3	Network based scheduling.	2	2		4
4	Critical path method.	6	6	-	12
5	Program evaluation& review	4	4		8
	technique (PERT)			-	



Annual Course Report: Project Management and Control

Probability aspects of project	2	2		4
completion time.			-	
Project cost control.	6	6	-	12
Resource allocation	2	2	-	4
Forecasting funds requirement	2	2	-	4
Total	28	28	-	56
	completion time. Project cost control. Resource allocation Forecasting funds requirement	completion time. Project cost control. Resource allocation Forecasting funds requirement 2	completion time. Project cost control. Resource allocation Forecasting funds requirement 2 2 2	completion time. Project cost control. Resource allocation Forecasting funds requirement 2 2 -

- Topics taught as a percentage of the content specified: 94%
- Lecturers commitment of the course content: 96 %

- Used Teaching and Learning Methods

- CSC	Osca Teaching and Dearning Methods				
No.	Teaching Method	Choice			
1	Lectures	$\sqrt{}$			
2	Discussion Sessions	×			
3	Information Collection from Different Sources	V			
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
	Total	100

3. Facilities Required for Teaching and Learning:

No.	Facility	Choice		No.	Fac
1	Lecture Classroom	√	-	7	Wir
2	Lab Facilities	√		8	Pres
3	White Board	1		9	Sou

No.	Facility	Choice
7	Wireless Board	×
8	Presenter	×
9	Sound System	$\sqrt{}$



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Project Management and Control

4	Data Show System	V	10	Wire-Internet	X
5	Visualizer	×	11	Wireless Internet	V
6	Smart Board	×	12		×

4- Administrative Constraints:

No.	Constraints
1	

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	95 %

6- Course enhancement suggestions

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

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	Increase the practical session in the course	

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
	The state of the s	boards



Annual Course Report: Project Management and Control

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	Increase some of scientific reference In the library of the institute	Purchase some references	2022-2023	Dr. Hamdy Abd Elaty

11- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increasing applied problems	Assignment and sheets	2023-2024	Dr. Hamdy Abd Elaty

Course Coordinator: Dr. Hamdy Abd Elaty

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

Date of Approval: 9/2023



Annual Course Report: Mass Transfer Operations II

A. Basic Information

Program Title Chemical Engineering					
Department offering the Program	Chemical Engineering Department				
Department Responsible for the Course	se Chemical Engineering Department				
Course Code	CHE321				
Year/ Level	Level 3				
Specialization	Major				
Authorization data of course report	8/2023				
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		Percentage	
Students attending the course		100%	
Students completing the course		100%	
Dogulta	Passed	91.3%	
Results	Failed	8.7%	
	Excellent		
Cuadina of successful students	Very Good	23.9%	
Grading of successful students	Good	26.1%	
	Pass	34.8%	

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Inter-phase mass transport	3	2	-	4
2	Continuous two phase mass transport processes	6	4	-	8
3	Gas absorption and stripping	6	4	-	8
4	adsorption	6	4	-	8
5	crystallization	3	2	-	4
6	double-effect evaporation	3	2	-	4



Annual Course Report: Mass Transfer Operations II

	Total	42	28		56
8 Membrane separation technology		6	4	-	8
7	Humidification, water cooling, drying.	9	6	-	12

- Topics taught as a percentage of the content specified: 88%
- Lecturers commitment of the course content: 96%

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	Inter-phase mass transport	X	X			X	X	X							
2	Continuous two phase mass transport processes	X	X		X	x	X	X							
3	Gas absorption and stripping	X	X		X	X	X	X							
4	adsorption	x	X			x	x	x			X	X			
5	crystallization	X	X			X	X	X			X	X			
6	double-effect evaporation	x	X		x	x	x	x							
7	Humidification, water cooling, drying.	X	X			X	X	X							
8	Membrane separation technology	x	X			x	x	x			x	X			



Annual Course Report: Mass Transfer Operations II

- 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	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	73.68%

6- Course enhancement suggestions

No.	Suggestions
1	Increasing the scientific references which relates to mass transfer operations.

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

No.	Comments
1	يجب أن يتم مراجعة أهداف المقرر.
2	ما هو المقصود بكلمة Presenter الموجودة في أغلب المواد تحت الطرق أو الوسائل المستخدمة في التعليم و التعلم؟ إذا
	كان المقصود هو عضو هيئة التدريس فهو من التأكيد لا يمكن إعتباره من ضمن الوسائل المستخدمة في التعليم و التعلم.

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

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

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

No.	Suggestions	Reasons
1	Making field visits	Lack of time



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Mass Transfer Operations II

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

No.	Suggestions
1	Improve lecture notes.

11- Action plan for next academic year

No.	Areas of development	Description of	Completion	Person responsible
		development	date	
1	Relating the course	Provide field	2023-2024	Institute
	with industrial field	visits		management

Course Coordinator: Dr. Riham Atef

Head of Department: Associate prof. Hend Elsayed Gadow

Date of Approval: 8/2023



Annual Course Report: Corrosion Engineering

A. Basic Information

Program Title	Chemical Engineering
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	CHE 322
Year/ Level	Level 3
Specialization	Major
Authorization date of course report	7/2023
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	-	3

B. Specialized information:

1. Statistics

Subject	Percentage	
Students attending the course		100%
Students completing the course		100%
Domilla.	Passed	100%
Results	Failed	0%
	Excellent	10.9%
Grading of successful students	Very Good	52.2%
	Good	23.9%
	Pass	13%

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Theories and principles of corrosion	2	2	-	3
2	Types of corrosion (Localized corrosion, pitting, crevice corrosion, cavitations, stress corrosion cracking and corrosion fatigue)		4	-	6
3	metallurgical factors	2	2	-	3
4	welding problems	2	2	-	3
5	material selection	2	2	-	3



Annual Course Report: Corrosion Engineering

6	Inspection and nondestructive testing	4	4	-	6
7	chemical cleaning flue gas attack	2	2	-	3
8	corrosion testing evaluation and simulation	4	4	-	6
9	corrosion prevention ,monitoring, cathode protection and anodic protection	2	2	-	3
10	water treatment for boilers and condensers	4	4	-	6
	Total	28	28	-	42

- Topics taught as a percentage of the content specified: 96 %
- Lecturers commitment of the course content: 96 %
- 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	Theories and principles of corrosion	X	X			x					х				
2	Types of corrosion (Localized corrosion, pitting, crevice corrosion, cavitations, stress corrosion cracking and corrosion fatigue)	х	X	X		X	X								



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Corrosion Engineering

			1	ı	ı		ı		1	1	ı	
3	metallurgical factors	x	X	X	X							
4	welding problems	x	X	X	X		X					
5	material selection	x	X	Х	X		X					
6	Inspection and nondestructive testing	x	X	х	X							
7	chemical cleaning flue gas attack	х	X	X	X							
8	corrosion testing evaluation and simulation	X	X	Х	X	X						
9	corrosion prevention ,monitoring, cathode protection and anodic protection	X	X	х	X	X						
10	water treatment for boilers and condensers	X	X	X	X	х						

- 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



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Corrosion Engineering

3	White board
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4- Administrative Constraints:

No.	Constraints
1	There are no constraints

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	78.47%

6- Course enhancement suggestions

No.	Suggestions						
1	Improve lecture notes						
2	Increasing visual aids that help understanding the content.						

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

No.	Comments
1	يجب أن يتم مراجعة أهداف المقرر
2	ما هو المقصود بكلمة Presenter الموجودة في أغلب المواد تحت الطرق أو الوسائل المستخدمة في التعليم و التعلم؟ إذا كان المقصود هو عضو هيئة التدريس فهو من التأكيد لا يمكن إعتباره من ضمن الوسائل المستخدمة في
	التعليم و التعلم.

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

No.	Suggestions
1	Obliging the students to search for real examples of corrosion and mention the type of
	corrosion and discussing their results
2	Integrating work experiences with education.
3	Preparing pieces that have corroded to see the types of corrosion in reality

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	Adding some scientific reference in the electronic library of the institute.



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Corrosion Engineering

11- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Application of modern teaching methods	Divide the students into groups to present an applied part about the contents of the course	2023-2024	Assoc.prof. Hend Elsayed Gadow and Dr. Mohamed Fakeeh

Course Coordinator: Assoc.prof. Hend Elsayed Gadow and Dr. Mohamed Fakeeh

Head of Department: Assoc.prof. Hend Elsayed Gadow

Date of Approval:7/2023



Annual Course Report: Mechanical unit operation

A. Basic Information

Program Title	Chemical Engineering					
Department offering the Program	Chemical Engineering Department					
Department Responsible for the Course	Chemical Engineering Department					
Course Code	CHE 323					
Year/ Level	Level 3					
Specialization	Major					
Authorization date of course report	7/2023					
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		Percentage
Students attending the course		100%
Students completing the course		100%
D14	Passed	95.65%
Results	Failed	4.35%
	Excellent	6.5%
Cuadina of an according to donta	Very Good	17.4%
Grading of successful students	Good	23.9%
	Pass	47.8%

No.	Topics	Topics Lecture Exercise		laboratory	Student load	
1	Filtration	3	2	-	4	
2	Size reduction	3	2	-	4	
3	Screening and Size Classification	3	2	-	4	
4	Solid drying	6	4	-	8	
5	Crystallization	3	2	-	4	
6	Centrifugation	3	2	-	4	
7	Sedimentation	6	4	-	8	



وزارة النعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Mechanical unit operation

	Total	42	28	-	56
9	Computation methods in multistage and multicomponent systems and operations including particulate solids		8		16
8	Power consumption in gas /liquid contacting. Design principles for stirrer and model experiments for scale up.		2	-	4

- Topics taught as a percentage of the content specified: 93%

- Lecturers commitment of the course content: 97%

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	Filtration	X	X			X	x								
2	Size reduction	X	X			X					X				
3	Screening and Size Classification	X	X			X	X								
4	Solid drying	X	X			X	X				X				
5	Crystallization	X	X			X	X				X				
6	Centrifugation	X	X			X	X				X				
7	Sedimentation	X	X			X									
8	Power consumption in gas /liquid contacting. Design principles for stirrer and model experiments for scale up.	X	X			X									
9	Computation methods in multistage and multicomponent systems and	X	X			X					X				



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Mechanical unit operation

operations including							
particulate solids							

- 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	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	74.83%

6- Course enhancement suggestions

No.	Suggestions
1	Using a video presentation system that is related to the topic to increase the
	clarity of the idea.
2	Increasing the references related to the topic

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

No.	Comments
1	يجب ان يتم مراجعة اهداف المقرر
2	برجاء مراجعة تقسيم ساعات المادة حيث أنه في توصيف البرنامج تم تخصيص 2 ساعة معمل بينما في توصيف المقرر تم تخصيص 2 ساعة تدريب
3	ما هو المقصود بكلمة Presenter الموجودة في أغلب المواد تحت الطرق أوالوسائل المستخدمة في التعليم
	والتعلم؟ إذا كان المقصود هو عضو هيئة التدريس فهو من التأكيد لا يمكن إعتباره من ضمن الوسائل
	المستخدمة في التعلم.



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Mechanical unit operation

4	برجاء مراجعة مجموع الدرجات للمادة حيث أنه في توصيف البرنامج تم تخصيص 10درجات عملي مما يجعل
	مجموع الدرجات160 بينما المجموع المكتوب150

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

No.	Suggestions
1	Integration of more industrial applications to emphasize the topic.

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.	Suggestions
1	Asking questions for discussion and asking them to search for more applications

11- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Application of modern teaching methods	Divide the students into groups to present an applied part about the contents of the course	2023-2024	Prof. Dr. Taha Farag

Course Coordinator: Prof. Dr. Taha Farag

Head of Department: Assoc.prof. Hend Elsayed Gadow

Date of Approval: 7/2023



Annual Course Report: Process Modeling and Simulation

A. Basic Information

Program Title	Chemical Engineering
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	CHE 324
Year/ Level	Level 3
Specialization	Major
Authorization data of course report	8/2023
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		Percentage
Students attending the course		100%
Students completing the course		100%
D 14	Passed	100%
Results	Failed	0%
	Excellent	28.3%
Grading of successful students	Very Good	48.8%
	Good	19.6%
	Pass	4.3%

No	. Topics	Lecture	Exercise	laboratory	Student load
1	Review of the basic principles of transport of momentum, heat, and mass with applied problems. Practical Natural gas processing Heat Exchanger	24	-	16	32
2	Numerical methods for solving more complex problems of transport phenomena and kinetics. Practical Chemical reaction	18	-	12	24



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

Annual Course Report: Process Modeling and Simulation

Total	42	-	28	56	

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

- Used Teaching and Learning Methods

	- Used Teac	iiiig a	iu Lea	n mng	MEHIC	Jus			1						
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	Review of the basic principles of transport of momentum, heat, and mass with applied problems. Practical Natural gas processing Heat Exchanger	x	x			x	x	x						x	x
2	Numerical methods for solving more complex problems of transport phenomena and kinetics. Practical Chemical reaction	x	x			x	x	x						x	x

- Student evaluation:

No.	Evaluation method	Marks
1	Periodic exams	20
2	Student load	20
3	Practical Examination	10



Annual Course Report: Process Modeling and Simulation

4	Final term examination	50
	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	

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	73.29%

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	اسم المادة Process Modeling and Simulation مما يعنى أنه يجب أن تشمل نمذجة و محاكاة مما يعنى
	استخدام برامج كمبيوتر في المحاكاة !!!لم يتم ذكر تلك البرامج.
2	محتوى المادة المذكور في توصيف المقرر مختصر جدا جدا و لا يشمل ساعات تدريب و كل الساعات مقسمة على
	المحاضرات و العملى.
3	ما هو المقصود بكلمة Presenter الموجودة في أغلب المواد تحت الطرق أو الوسائل المستخدمة في التعليم و التعلم؟ إذا
	ما هو المقصود بكلمة Presenter الموجودة في أغلب المواد تحت الطرق أو الوسائل المستخدمة في التعليم و التعلم؟ إذا كان المقصود هو عضو هيئة التدريس فهو من التأكيد لا يمكن إعتباره من ضمن الوسائل المستخدمة في التعليم و التعلم

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

No.	Suggestions
1	Introducing real models of industrial applications.

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

No.	Suggestions	Reasons
1	Increase some of scientific reference about	Lack of time for the
	process modelling and simulation for chemical	academic term.
	engineering in electronic library.	

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

No.	Suggestions
1	Using the internet in the research and ensuring that the students carry out the tasks
	of self-study and discuss with them what they have reached



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

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11- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Use more advanced	Apply advanced	2023-2024	Dr. Sohier Abo Bakr
	programs	chemical engineering		
		programs		

Course Coordinator: Dr. Sohier Abo Bakr

Head of Department: Assoc.prof. Hend Elsayed Gadow

Date of Approval: 8/2023



Annual Course Report: Polymer Engineering

A. Basic Information

Program Title	Chemical Engineering
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	CHE 325C
Year/ Level	Level 3
Specialization	Major
Authorization data of course report	8/2023
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
Teaching nours	2	2	-	4

B. Specialized information:

1. Statistics

Subject		Percentage
Students attending the course		100%
Students completing the course		100%
D. II	Passed	100%
Results	Failed	0%
	Excellent	43.5%
Conding of an acceptul students	Very Good	23.9%
Grading of successful students	Good	10.9%
	Pass	21.7%

No.	Topics	Lecture	Exercise	laboratory	Student load
1	Polymer chemistry and types of	4	Δ	_	8
	polymerization reactions.	_	7	_	O
2	Polymerization techniques	2	2	-	4
3	measurement of molecular weight	2	2	-	4
4	Classification of polymers	2	2	-	4
5	plastics, elastomers	4	4	-	8
6	thermoplastics and thermosetting resins	2	2	-	4
7	Structure, mechanical and physical properties of polymers	2	2	-	4



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Annual Course Report: Polymer Engineering

	Total	28	28	-	56
12	Manufacture and properties of some commercial polymers	2	2	-	4
11	Injection and blow molding	2	2	-	4
10	Extrusion	2	2	-	4
9	Polymer processing	2	2	-	4
8	manufacture of polymers	2	2	-	4

- 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
1	Polymer chemistry and types of polymerization reactions.	x	x			x					x				
2	Polymerization techniques	х	х	х		х									
3	measurement of molecular weight	x	х			x	х								
4	Classification of polymers	х	х			x					х				
5	plastics, elastomers	х	х			х									



وزارة التعليم العالى المعهد العالى للهندسة والتكنولوجيا بدمياط الجديدة

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6	thermoplastics and thermosetting resins	х	x		x			x		
7	Structure, mechanical and physical properties of polymers	х	x		x			x		
8	manufacture of polymers	х	х		х			х		
9	Polymer processing	х	х	х	х					
10	Extrusion	х	х					х		
11	Injection and blow molding	х	x		x					
12	Manufacture and properties of some commercial polymers	х	х	х	х					

- Student Assessment:

No.	Evaluation method	Marks
1	periodic exams	20
2	Student load	30
3	Final term examination	50
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		•

4- Administrative Constraints:

	Constraints		
No constraints			

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	75.24%



Annual Course Report: Polymer Engineering

6- Course enhancement suggestions

No.	Suggestions			
1	Student participation in research and information collection			
2	Making site visits to raise awareness of the spread of polymers and their			
	importance in various field			

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

No.	Comments
1	يجب أن يتم مراجعة أهداف المقرر و التي تم ذكر فيها أنه يتم استخدام computational system in
	polymer industry و هو غير واضح من المحتوى المذكور للمقرر.
2	برجاء مراجعة الدرجات المخصصة للامتحان النهائي حيث أنها 50 درجة في توصيف البرنامج و60درجة في
	توصيف المقرر
3	ما هو المقصود بكلمة Presenter الموجودة في أغلب المواد تحت الطرق أو الوسائل المستخدمة في التعليم و التعلم؟ إذا كان المقصود هو عضو هيئة التدريس فهو من التأكيد لا يمكن إعتباره من ضمن الوسائل المستخدمة
	التعلم؟ إذا كان المقصود هو عضو هيئة التدريس فهو من التأكيد لا يمكن إعتباره من ضمن الوسائل المستخدمة
	في التعليم و التعلم.

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	Practically preparing a polymer and trying to separate it using one of the methods that have been taught	

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

No.	Suggestions
1	Making some scientific visits for petrochemical laboratories

11- Action plan for next academic year

No.	Areas of	Description of	Completion	Person responsible
	development	development	date	
1	Increasing visual	Increasing the	2023-2024	Dr. Mohamed Fakeeh
	aids that help	explanatory videos in		
	understanding the	the teaching content		
	content			

Course Coordinator: Dr. Mohamed Fakeeh

Head of Department: Assoc.prof. Hend Elsayed Gadow

Date of Approval: 8/2023