



Annual Course Report: Mathematics 1

A. Basic Information

Program Title	All programs
Department offering the Program	Basic Science and Engineering Department
Department Responsible for the Course	Basic Science and Engineering Department
Course Code	MTH 101
Level / Semester	1 st Level / 1 st Semester
Specialization	Major
Authorization date of course report	11/2/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number	1

Teaching Hours	Lectures	Tutorial	Practical
	2 hours/ week	2 hours/week	-

B. Specialized information:

1. Statistics

Subject	No.	Percentage
Students attending the course	171	100%
Students completing the course	161	94.2%
Results	Passed	117 68.4%
	Failed	54 31.6%
Grading of successful students	Excellent	6 3.5%
	Very Good	23 13.2%
	Good	32 19%
	Pass	56 32.7%

2. Course Teaching:

No	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Vectors - Vectors Algebra- partial fraction	4	4	0	Dr. Ibrahim el Sharry
2	The Concept of functions	2	2	0	
3	Equations theory –Mathematical Deduction	4	4	0	
4	Basic Trigonometric functions and its inverse Exponential and Logarithmic functions Hyperbolic functions and its inverse Connection (definition – theories) Maclaurin expansion The Taylor series	4	4	0	
5	Numerical solutions methods	4	4	0	



6	Limits, derivatives and curves drawing	4	4	0
7	Introduction of Partial Derivatives	4	4	0
8	Linear equations systems – Gauss Jordan method for deletion.	2	2	0
Total Hours		28	28	0

- Topics taught as a percentage of the content specified: 100 %
- Lecturers commitment of the course content: 100 %
- Coverage of exam topics to course content: 80 %
- Used Teaching and Learning Methods

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	20%
2	Practical Examination	0%
3	Semester work	20%
4	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	√
11	Wireless Internet	√
12	...	×

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment



5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	66.16%

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	The Aim of the course needs to be adjusted to describe the course well

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.

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Teaching method	Increase the integration between basic math and engineering field during the course	2017-2018	Dr Ibrahim El Shamy

Course Coordinator: Dr. Ibrahim el Shamy

Head of Department: Prof. Dr. Mohammed Saad Elkady

Date of Approval: 14/2/2017



Annual Course Report: Mechanics 1

A. Basic Information

Program Title	All Programs
Department offering the Program	Basic Science and Engineering Department
Department Responsible for the Course	Basic Science and Engineering Department
Course Code	ENG101
Level/ Semester	1 st Level /1 st Semester
Specialization	Major
Authorization date of course report	21/2/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	2

Teaching Hours	Lectures	Tutorial	Practical
	2 hours/week	2 hours/week	-

B. Specialized information:

1. Statistics

Subject	No.	Percentage
Students attending the course	206	100%
Students completing the course	193	93.7%
Results	Passed	167 81.1%
	Failed	26 12.6%
Grading of successful students	Excellent	20 9.7%
	Very Good	48 23.3%
	Good	44 21.3%
	Pass	55 26.8%

2. Course Teaching:

No	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Applications of space vectors	2	2	0	Prof.Dr. Mohammed saad Elkady Dr. Salah Ali Sayed dafea
2	results of group of Forces	6	6	0	
3	momentums	2	2	0	
4	equivalent couples and equivalent groups	2	2	0	
5	equations of equilibrium for rigid bodies	4	4	0	
6	Supports and pivots types	2	2	0	
7	equilibrium under the effect of forces and the space couples	4	4	0	
8	center of mass (groups of particles - flat surfaces)	4	4	0	
9	moment of inertia (mean axes-equal surfaces)	2	2	0	
Total hours		28	28	0	



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

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	20%
2	Practical Examination	0%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	71.03%

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	The Aim of the course needs to be adjusted to describe the course well

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
	Using online course material.	Needing of extra internet system and smart boards

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some of scientific reference In the library of the institute	Add more Mechanics1 books in the electronic library of institute	2017-2018	Institute management

Course Coordinator: prof. Dr. Mohammed Saad Elkady

Head of Department: prof. Dr. Mohammed Saad Elkady

Date of Approval: 21/2/2017



Annual Course Report: Physics (1)

A. Basic Information

Program Title	All Programs
Department offering the Program	Basic Science and Engineering Department
Department Responsible for the Course	Basic Science and Engineering Department
Course Code	PHY101
Level / Semester	1 st Level / 1 st Semester
Specialization	Major
Authorization date of course report	21/2/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number	1

Teaching Hours	Lectures	Tutorial	Practical
	2 hours/week	2 hours/week	2 hours/week

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		169	100%
Students completing the course		160	94.67%
Results	Passed	139	86.87%
	Failed	21	13.13%
Grading of successful students	Excellent	8	5%
	Very Good	18	11.25%
	Good	35	21.87%
	Pass	78	48.75%

2. Course Teaching:

No	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Physical quantities, units and dimensions.	2	2	2	Dr. Amal Bahiry
2	Mechanical properties of materials.	2	2	2	
3	Hydrostatics, Pascal's law, surface tension.	2	2	2	
4	Hydrodynamics, viscosity and Bernoulli's equation.	2	2	2	
5	Gravity.	2	2	2	
6	Wave's motion.	2	2	2	
7	Heat and heat transfer.	4	4	4	
8	Kinetic theory of gases.	2	2	2	



9	Thermodynamics, first law of thermodynamics.	2	2	2	Dr. Amal Bahiry
10	Reversible and irreversible processes, thermodynamic processes.	2	2	2	
11	Second law of thermodynamics.	2	2	2	
12	Application of second law of thermodynamics.	2	2	2	
13	General review and practical exam.	2	2	2	
Total hours		28	28	28	

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

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	10%
2	Practical Examination	10%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment



5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	77%

6- Course enhancement suggestions

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

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

No.	Comments
1	Clarity of course aims is not achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved

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

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

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some of scientific reference In the library of the institute	Add more scientific reference In the electronic library of the institute	2017-2018	Institute management

Course Coordinator: Dr. Amal Bahiry

Head of Department: Prof. Dr. Mohammed Saad Elkady

Date of Approval: 21/2/2017



Annual Course Report: General Chemistry

A. Basic Information

Program Title	All programs
Department offering the Program	Basic Science and Engineering Department
Department Responsible for the Course	Basic Science and Engineering Department
Course Code	CHE 101
Level/ Semester	1 st Level /1 st Semester
Specialization	major
Authorization date of course report	6/3/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	2 hours / week	0	2 hours / week

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		126	100%
Students completing the course		113	89%
Results	Passed	92	81.4%
	Failed	21	18.6%
Grading of successful students	Excellent	9	8%
	Very Good	21	18.6%
	Good	21	18.6%
	Pass	41	36.28%

2. Course Teaching:

No	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Gases	4	0	4	Associate prof. Khaled Samir
2	Chemical Thermodynamics	4	0	4	
3	Properties of Solutions	4	0	4	
4	Material Balance in Combustion Processes	2	0	2	
5	Dynamic Equilibrium in Physical and Chemical Process	4	0	4	
6	Electrochemistry	2	0	2	
7	Corrosion and Corrosion Control	2	0	2	
8	Fertilizers	2	0	2	
9	Manufacturing and Chemistry of Cement	2	0	2	
10	Water Processes	2	0	2	
Total		28	0	28	



- Topics taught as a percentage of the content specified: 80 %
- Lecturers commitment of the course content: 100 %
- Coverage of exam topics to course content: 80 %
- Used Teaching and Learning Methods

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	10%
2	Practical Examination	10%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	75.94%

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	Clarity of course aims is not achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved

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

No.	Suggestions
1	Improve scientific search skills
2	Education in learning groups

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Introduce virtual lab technique	Used suitable videos	2017-2018	Associate prof. Khaled Samir

Course Coordinator: Associate prof. Khaled Samir

Head of Department: Associate prof. Khaled Samir

Date of Approval: 6/3/2017



Annual Course Report: Engineering Drawing and Projection

A. Basic Information

Program Title	All programs
Department offering the Program	Basic Science and Engineering Department
Department Responsible for the Course	Basic Science and Engineering Department
Course Code	ENG103
Level/ Semester	1 st Level / 2 nd Semester
Specialization	Major
Authorization date of course report	2/7/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	2

Teaching Hours	Lectures	Tutorial	Practical
	1 hours/week	0	4 hours/week

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		105	100%
Students completing the course		94	89.5%
Results	Passed	79	75.2%
	Failed	15	14.2%
Grading of successful students	Excellent	3	2.8%
	Very Good	21	20%
	Good	22	20.9%
	Pass	33	31.4%

2. Course Teaching:

No.	Topics	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Techniques and skills of engineering drawing – engineering operations – orthogonal projection – secondary orthogonal – solid bodies – intersections (cutters for solid bodies – intersections of surfaces) - personals – projections of simple bodies – rules of writing dimensions – drawing of perspectives – deduction of missing projections – drawing of engineering sections.	11	44	0	Prof.Dr. Mohammed saad Elkady Dr. Salah Ali Sayed dafea



2	Introduction to AutoCAD Fundamentals of engineering drafting by way of computer aided drawing (CAD) software. Basic features and capabilities of CAD software and drafting fundamentals including orthographic projection, and isometric pictorials, part dimensioning in 2 dimensional drawings.	3	12	0	Prof.Dr. Mohammed saad Elkady Dr. Salah Ali Sayed dafea
Total		14	56	0	

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

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	10%
2	Practical examination	10%
3	Semester work	20%
4	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	√
11	Wireless Internet	√
12	...	×

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment



5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	66.21%

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	Clarity of course aims is partially achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved

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

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

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some of scientific reference in the library of the institute	Add more books in the electronic library of institute	2017-2018	Institute management

Course Coordinator: Prof. Dr. Mohamed Saad Elkady

Dr. Salah Ali Sayed dafa

Head of Department: Prof. Dr. Mohamed Saad Elkady

Date of Approval: 2/7/2017



Annual Course Report: Engineering Drawing and Projection

A. Basic Information

Program Title	All programs
Department offering the Program	Basic Science and Engineering Department
Department Responsible for the Course	Basic Science and Engineering Department
Course Code	ENG103
Level/ Semester	1 st Level / 2 nd Semester
Specialization	Major
Authorization date of course report	2/7/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	2

Teaching Hours	Lectures	Tutorial	Practical
	1 hours/week	0	4 hours/week

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		104	100%
Students completing the course		97	93.2%
Results	Passed	85	81.7%
	Failed	12	11.5%
Grading of successful students	Excellent	2	1.9%
	Very Good	14	13.4%
	Good	18	17.3%
	Pass	51	49.1%

2. Course Teaching:

No.	Topics	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Techniques and skills of engineering drawing – engineering operations – orthogonal projection – secondary orthogonal – solid bodies – intersections (cutters for solid bodies – intersections of surfaces) - personals – projections of simple bodies – rules of writing dimensions – drawing of perspectives – deduction of missing projections – drawing of engineering sections.	11	44	0	Prof.Dr. Mohammed saad Elkady Dr. Salah Ali Sayed dafa



2	Introduction to AutoCAD Fundamentals of engineering drafting by way of computer aided drawing (CAD) software. Basic features and capabilities of CAD software and drafting fundamentals including orthographic projection, and isometric pictorials, part dimensioning in 2 dimensional drawings.	3	12	0	Prof.Dr. Mohammed saad Elkady Dr. Salah Ali Sayed dafa
Total		14	56	0	

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

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	10%
2	Practical examination	10%
3	Semester work	20%
4	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	√
11	Wireless Internet	√
12	...	×



4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	66.21%

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	Clarity of course aims is partially achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved

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

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

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some of scientific reference In the library of the institute	Add more books in the electronic library of institute	2017-2018	Institute management

Course Coordinator: Prof. Dr. Mohamed Saad Elkady

Dr. Salah Ali Sayed dafea

Head of Department: Prof. Dr. Mohamed Saad Elkady

Date of Approval: 2/7/2017



Annual Course Report: Introductions to Computer Systems

A. Basic Information

Program Title	All Programs
Department offering the Program	Basic Science and Engineering Department
Department Responsible for the Course	Basic Science and Engineering Department
Course Code	ENG104
Level / Semester	First level / First semester
Specialization	Major
Authorization date of course report	14/2/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	2 hours/week	-	2 hours/week

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		216	100%
Students completing the course		200	92.5 %
Results	Passed	138	84 %
	Failed	62	16 %
Grading of successful students	Excellent	14	6.5 %
	Very Good	21	9.7 %
	Good	40	18.7 %
	Pass	63	29.1 %

2. Topics actually taught:

No	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Computer architecture	4	0	4	Dr. Yosry El-Helaly
2	Computer systems	4	0	4	
3	Files systems	2	0	2	
4	Computer networks	4	0	4	
5	Internet networks	4	0	4	
6	Data systems and information technology	4	0	4	
7	Computer graphics – Multimedia systems	2	0	2	
8	Methods of solving problems and logical design for the programs	2	0	2	
9	Engineering applications in programming using one structured programming language	2	0	2	Dr. Yosry El-Helaly
Total		28	0	28	



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

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	10%
2	Practical Examination	10%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	73.71%

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	Clarity of course aims is not achieved
2	Appropriate methods of teaching and learning used to achieve the intended learning outcomes is not achieved
3	References used without date

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

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

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some of scientific reference in the library of the institute	Add more computer systems books in the electronic library of institute	2017-2018	Institute management

Course Coordinator: Dr. Yosry El-Helaly

Head of Department: prof. Dr. Mohammed Saad Elkady

Date of Approval: 1/2/2017



Annual Course Report: Mathematics 2

A. Basic Information

Program Title	All Programs
Department offering the Program	Basic Science and Engineering Department
Department Responsible for the Course	Basic Science and Engineering Department
Course Code	MTH102
Level / Semester	1 st Level / 2 nd Semester
Specialization	Major
Authorization date of course report	2/7/2017
Exam Committee Selection Rule	Dr. Ibrahim El Shamy
External Revision of Examination	--
Lecturers Number	1

Teaching Hours	Lectures	Tutorial	Practical
	2 hours/ week	2 hours /week	0

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		104	100%
Students completing the course		97	93.2%
Results	Passed	85	81.7%
	Failed	12	11.5%
Grading of successful students	Excellent	2	1.9%
	Very Good	14	13.4%
	Good	18	17.3%
	Pass	51	49.1%

2. Course Teaching:

No	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Indefinite integration (basic functions – theories) – method of integration	4	4	0	Dr. Ibrahim El Shamy
2	Definite integration (definition – properties -theories) Applications of definite integration (plain areas – circular volumes – plain technical length)	4	4	0	
3	Equations of surfaces in second order – rotation and movement of axes in space.	2	2	0	



4	Basic concepts- equations of second degree and double equation for two straight lines	2	2	0
5	movement and rotation of axes	2	2	0
6	Conical sectors	4	4	0
7	Areas – Circular surfaces (Parabola – ellipse – hyperbola)	4	4	0
Total Hours		28	28	0

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

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	20%
2	Semester work	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	√
11	Wireless Internet	√
12	...	×



4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	69.29%

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	The Aim of the course needs to be adjusted to describe the course well

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.

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Teaching method	Increase the integration between basic math and engineering field during the course	2017-2018	Dr Ibrahim El Shamy

Course Coordinator: Dr. Ibrahim El Shamy

Head of Department: Prof. Dr. Mohamed SaadElkady

Date of Approval 2/7/2017



Annual Course Report: Mechanics 2

A. Basic Information

Program Title	All programs
Department offering the Program	Basic Science and Engineering Department
Department Responsible for the Course	Basic Science and Engineering Department
Level/ Semester	1 st Level / 2 nd Semester
Year/ Level	first level-second term
Specialization	Major
Authorization date of course report	14/7/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	2 hours	2 hours/week	-

B. Specialized information:

1. Statistics

Subject	No.	Percentage
Students attending the course	205	100%
Students completing the course	196	96.2%
Results	Passed	165 81.1%
	Failed	31 15.1%
Grading of successful students	Excellent	33 16.1%
	Very Good	47 23%
	Good	39 19%
	Pass	46 23.1%

2. Course Teaching:

No	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Position, Displacement, Velocity, and Acceleration of particle	4	4	0	Prof.Dr. Mohammed saad Elkady / Dr. Salah Ali Sayed dafea
2	Plane Motion Path of Particle	2	2	0	
3	Description of plane motion using Cartesian axes	2	2	0	
4	Projectiles	2	2	0	
5	Relative motion between particles	2	2	0	
6	Motion for particle in circular path	2	2	0	



7	Newton's second law of motion	4	4	0
8	Newton's third law of motion	2	2	0
9	Principle of work and energy of motion	4	4	0
10	Principle of conservation of mechanical energy	2	2	0
11	Principle of Impulse and Momentum of rigid body	2	2	0
Total hours		28	28	0

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

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	20%
2	Practical Examination	0%
3	Semester work	20%
4	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	√
11	Wireless Internet	√
12	...	×

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment



5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	68.41%

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 comments

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

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

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some of scientific reference in the library of the institute	Add more mechanics 2 books in the electronic library of institute	2017-2018	Institute management

Course Coordinator: prof. Dr. Mohammed Saad Elkady

Dr. Salah Ali Sayed dafea

Head of Department: prof. Dr. Mohammed Saad Elkady

Date of Approval: 14/7/2017



Annual Course Report: Physics (2)

A. Basic Information

Program Title	All Programs
Department offering the Program	Basic Science and Engineering Department
Department Responsible for the Course	Basic Science and Engineering Department
Course Code	PHY102
Level / Semester	1 st level / 2 nd Semester
Specialization	Major
Authorization date of course report	2/7/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number	1

Teaching Hours	Lectures	Tutorial	Practical
	2 hours/week	2 hours/week	2 hours/week

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		170	100%
Students completing the course		162	94.67%
Results	Passed	89	52.35%
	Failed	73	42.94%
Grading of successful students	Excellent	0	0%
	Very Good	2	1.17%
	Good	16	9.41%
	Pass	71	41.76%

2. Course Teaching:

No	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Charge and substance- Electric field	2	2	2	Dr. Amal Beahiry
2	Columb's law- Electric flux- Gauss law- electric volt	6	6	6	
3	Condenser and insulation materials	2	2	2	
4	Current, Resistance and Electric force – ohm's law and simple circuits	2	2	2	
5	Magnetic field- Biot and Savart laws – Magnetic flux and Gauss law- Faraday law - Magnetic impedance	4	4	4	
6	Engineering light – light properties for spherical surfaces	6	6	6	



7	Wave properties for light and Hygen's principle – interference – polarization- and diffraction	2	2	2	
8	Lenses and mirrors– Principle of Quantum theory- Laser – Optical – E Electric phenomenon	4	4	4	
Total hours		28	28	28	

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

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	10%
2	Practical Examination	10%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment



5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	70.15%

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	Clarity of course aims is not achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved

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

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

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

No.	Suggestions	Reasons
1	Using online course material.	Needing of E-learning System and smart boards

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some of scientific reference in the library of the institute	Add more physics books in the electronic library of the institute	2017-2018	Dr. Amal Beahiry

Course Coordinator: Dr. Amal Beahiry

Head of Department: Prof. Dr. Mohammed Saad Elkady

Date of Approval: 2/7/2017



Annual Course Report: Production Engineering

A. Basic Information

Program Title	All programs
Department offering the Program	Basic Science and Engineering Department
Department Responsible for the Course	Basic Science and Engineering Department
Course Code	ENG 105
Level / Semester	First level/first Semester
Specialization	Major
Authorization date of course report	17/2/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	3hours/week	-	2 hours/week

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		109	100%
Students completing the course		104	95.41%
Results	Passed	99	95.19%
	Failed	5	4.81%
Grading of successful students	Excellent	23	22.12%
	Very Good	28	26.92%
	Good	27	25.96%
	Pass	21	20.19%

2. Course Teaching:

No	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Engineering materials and their properties	2	0	2	Dr. Abdo Elnakeb
2	Industrial Safety	2	0	2	
3	Iron extraction, cast iron and steel production techniques	2	0	2	
4	Carpentry Workshop	2	0	2	
5	Fundamental of iron heat treatment	2	0	2	
6	Casting model workshop	2	0	2	
7	Metal casting definition, sand casting process, advantage and disadvantage of metal casting.	2	0	2	
8	Basic forming processes	2	0	2	



9	Forging process	2	0	2	Dr. Abdo Elnakeb
10	Extraction, Rolling, Drawing, coining and stamping processes	4	0	4	
11	Sheet metal forming	4	0	4	
12	Welding processes	4	0	4	
13	Machining fundamentals	4	0	4	
14	Machining processes	4	0	4	
15	Simple measuring tools	4	0	4	
Total hours		42	0	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 Method	Choice
1	Lectures	√
2	Discussion Sessions	√
3	Information Collection from Different Sources	√
4	Practical	×
5	Research Assignment	√
6	Field Visits	×
7	Case Studies	√
8	Smart Sessions	×
9	...	

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	10%
2	Practical Examination	10%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment



5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	78.77%

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	Clarity of course aims is not achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved

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.

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some of scientific reference In the library of the institute	Add more physics books in the electronic library of the institute	2017-2018	Dr. Abdo Elnakeb

Course Coordinator: Dr. Abdo Elnakeb

Head of Department: Prof Dr. Mohammed Saad Elkady

Date of Approval: 17/2/2017



Annual Course Report: Introduction to Engineering and Environment

A. Basic Information

Program Title	All programs
Department offering the Program	Basic Science and Engineering Department
Department Responsible for the Course	Basic Science and Engineering Department
Course Code	ENG106
Level / Semester	First level / First Semester
Specialization	Major
Authorization date of course report	14/2/2017
Exam Committee Selection Rule	Commissioning of the Institute of management
External Revision of Examination	--
Lecturers Number:	2

Teaching Hours	Lectures	Tutorial	Practical
	2 hours/week	0	0

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		119	100%
Students completing the course		113	94.96%
Results	Passed	79	66.38%
	Failed	34	28.57%
Grading of successful students	Excellent	5	4.2%
	Very Good	6	5.04%
	Good	24	20.17%
	Pass	44	36.97%

2. Course Teaching:

No	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Engineering concepts: What is engineering – international classification for the engineering jobs – Relation between engineering development and environment economic and social development – Engineering branches – Ethics of the engineering jobs.	10	0	0	Prof. Dr. Mohamed Saad Elkady
2	Introduction to environmental science: the importance of studying environmental science	2	0	0	Dr. Ramadan Elkateb



3	Modern technology and its effect on the environment – Quality of the environment and development elements	4	0	0	Prof. Dr. Mohamed Saad Elkady Dr. Ramadan Elkateb
4	Sources of environmental pollution and method of control (air pollution – water pollution – solid wastes pollution – economics of environmental pollution control – legislations for the environment protection.	12	0	0	
Total hours		28	0	0	

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

Used Teaching and Learning Methods

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

Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	20%
2	Practical Examination	0%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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



4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	60.2%

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	Clarity of course aims is partially achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved

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

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

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some of scientific reference In the library of the institute	Add more scientific reference In the electronic library of the institute	2017-2018	Institute management
2	Visit some water treatment plant and renewable energy.	Provide field visits	2017-2018	Institute management

Course Coordinator: Prof. Dr. Mohamed Saad Elkady

Dr. Ramadan Elkateb

Head of Department: Prof. Dr. Mohammed Saad Elkady

Date of Approval: 14/2/2017



Annual Course Report: Technical English Language 1

A. Basic Information

Program Title	All programs
Department offering the Program	Basic Science and Engineering Department
Department Responsible for the Course	Basic Science and Engineering Department
Course Code	LNG101
Level / Semester	First level / Second Semester
Specialization	Major
Authorization date of course report	2/7/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching hours	Lectures	Tutorial	Practical
	2 hours/week	0	2 hours/week

B. Specialized information:

1. Statistics

Subject	No.	Percentage
Students attending the course	174	100%
Students completing the course	168	95.55%
Results	Passed	141 81.03%
	Failed	27 15.5%
Grading of successful students	Excellent	26 14.9%
	Very Good	40 22.99%
	Good	44 25.28%
	Pass	31 17.81%

2. Course Teaching:

No.	Topics actually taught	No. of hours			Lecturer
		Lectures	Tutorial	Practical	
1	Engineering	4	0	4	Mr. Emad Abo El- naga
2	A private flat	4	0	4	
3	Book shelves	4	0	4	
4	Bridges	4	0	4	
5	Reinforced concrete	4	0	4	
6	Surveying	4	0	4	
7	Hydraulic works	2	0	2	
8	Soil mechanics and foundations	2	0	2	
Total hours		28	0	28	



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

Used Teaching and Learning Methods

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

Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	10%
2	Practical Examination	10%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	71.67%

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	Clarity of course aims is partially achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved

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

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

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some of linguistic reference In the library of the institute	Add more linguistic books in the electronic library of institute	2017-2018	Institute management

Course Coordinator: Mr. Emad Abo El- naga

Head of Department: prof. Dr. Mohammed Saad Elkady

Date of Approval: 2/7/2017



Annual Course Report: Mathematics 3

A. Basic Information

Program Title	All Programs
Department offering the Program	All Departments
Department Responsible for the Course	Basic Science and Engineering Department
Course Code	MTH 201
Level/ Semester	2 nd Level /1 st Semester
Specialization	Major
Authorization date of course report	11/2/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	2 hours/week	2 hours/week	-

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		257	100%
Students completing the course		244	94.2%
Results	Passed	211	82.1%
	Failed	46	17.9%
Grading of successful students	Excellent	46	17.9%
	Very Good	56	21.8%
	Good	38	14.7%
	Pass	71	27.6%

2. Course Teaching:

No	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Basic concepts Formation of the differential equations Separable differential equations	4	4	0	Dr. Ebrahim el Shamy
2	Homogenous differential equations	2	2	0	
3	Exact differential equation linear differential equation	4	4	0	
4	Bernoulli's equation the linear differential operator	2	2	0	
5	Second order homogeneous differential equations with constant coefficients	4	4	0	
6	Convergence of la-place transform Important properties of la-place transform	4	4	0	



7	Functions of several variables Limits of functions of several variables. Continuity in multivariable functions	4	4	0	Dr. Ebrahim el Shamy
8	Partial derivatives of higher order extreme for functions of two variables	2	2	0	
9	Double integral Triple integral Line integral in space, Green's theorem	2	2	0	
Total		28	28	0	

- Topics taught as a percentage of the content specified: 100 %
- Lecturers commitment of the course content: 100 %
- Coverage of exam topics to course content: 80 %
- Used Teaching and Learning Methods

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	20%
2	Practical Examination	0%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment



5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	79.75%

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	The Aim of the course needs to be adjusted to describe the course well

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.

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Teaching method	Increase the integration between basic math and engineering field during the course	2017-2018	Dr Ibrahim El Shamy

Course Coordinator: Dr. Ebrahim El Shamy

Head of Department: Prof. Dr. Mohammed Saad Elkady

Date of Approval: 14/2/2017



Annual Course Report: Chemical engineering principle 1

A. Basic Information

Program Title	Chemical Engineering Program
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	CHE 201
Level/ Semester	2 nd Level /1 st Semester
Specialization	Major
Authorization date of course report	1/2/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	-
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	2 hours / week	2hours / week	0

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		22	100%
Students completing the course		22	100%
Results	Passed	21	95.5%
	Failed	1	4.5%
Grading of successful students	Excellent	8	38%
	Very Good	5	23.8%
	Good	3	14.3%
	Pass	5	23.9%

2. Course Teaching:

No .	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	What chemical engineers do for a living	2	2	0	Dr Yasser Reda
2	Introduction to engineering calculation	4	4	0	
3	Processes ,process units and degree of freedom	4	4	0	
4	Material balance in single unit processes	8	8	0	
5	Material balance in multiple unit processes	6	6	0	
6	Material balance in chemical unit processes	4	4	0	
Total		28	28	0	



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

No.	Teaching Method	Choice
1	Lectures	√
2	Discussion Sessions	√
3	Information Collection from Different Sources	√
4	Research Assignment	√
5	Tutorial	×

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	20%
2	Practical Examination	0%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	82.14%

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	Clarity of course aims is not achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved



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

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

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Add more new technique	Research for the new technique	2017-2018	Dr Yasser Reda

Course Coordinator: Dr Yasser Reda

Head of Department: Associate prof. Khaled Samir

Date of Approval: 2/2017



Annual Course Report: Computer Programming

A. Basic Information

Program Title	All Programs
Department offering the Program	All Departments
Department Responsible for the Course	Basic Science and Engineering Department
Course Code	ENG 201
Level / Semester	2 nd Level / 2 nd Semester
Specialization	Minor
Authorization date of course report	1/7/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number	1

Teaching Hours	Lectures	Tutorial	Practical
	2 hours/week	0	2 hours/week

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		307	100%
Students completing the course		182	59.28%
Results	Passed	182	59.28%
	Failed	125	40.71%
Grading of successful students	Excellent	4	2.19%
	Very Good	12	6.59%
	Good	38	20.87%
	Pass	128	70.32%

2. Course Teaching:

No	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Basic concepts of programming: (problem analysis -Developing the programs charts- Structured programming)	2	0	2	Dr. Yousry Elhelaly
2	Introduction Java Applications : (Form of the Program - fundamentals of Java programming language and its syntax - Primitive data types, operators, variables -Joptionpane & scanner Classes)	4	0	4	
3	Branching[Control Statements](Part I) :(If statement, If -Else, Nested IF, Switch)	2	0	2	



4	[Iterations] Control Statements (Part 2) :Repetition statements: for, while, do-while - Nested loop - Continue, Break.	4	0	4
5	Concepts of object Oriented programming (Classes, inheritance concept)	4	0	4
6	Methods(Declare method - Message passing - Method overloading)	4	0	4
7	Introduction to java Applets.	4	0	4
8	Graphical user interface (GUI).	4	0	4
Total hours		28	0	28

- Topics taught as a percentage of the content specified: **90 %**
- Lecturers commitment of the course content: **90 %**
- Coverage of exam topics to course content: **85 %**
- Used Teaching and Learning Methods

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	10%
2	Practical Examination	10%
3	Semester work	20%
4	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	√
11	Wireless Internet	×
12	...	×



4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	69.36%

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	Clarity of course aims is not achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved

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.

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some of scientific reference In the library of the institute	Add more scientific reference In the electronic library of the institute	2017-2018	Institute management

Course Coordinator: Dr. Yousry Elhelaly

Head of Department: Prof. Dr. Mohammed Saad Elkady

Date of Approval: 1/7/2017



Annual Course Report: Engineering Thermodynamics

A. Basic Information

Program Title	Chemical Engineering Program
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Basic Sciences and Engineering Department
Course Code	ENG 202
Level/ Semester	2 nd Level /1 st Semester
Specialization	Major
Authorization data of course report	14/2/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	2 hours/week	2 hours/week	-

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		24	100%
Students completing the course		22	91.7
Results	Passed	13	59%
	Failed	9	41%
Grading of successful students	Excellent	1	4.5%
	Very Good	1	4.5%
	Good	3	13.5%
	Pass	8	36.3%

2. Course Teaching:

No	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Fundamental concepts - Properties of a pure substance	2	2	0	Prof Dr. A. E. Kabeel
2	Equation of state - thermodynamic systems - Work and heat	2	2	0	
3	First law of thermodynamics; Applications to Systems and Control Volumes	6	6	0	
4	Second Law of Thermodynamics; Principle of Carnot cycles	4	4	0	
5	Heat engines, Refrigerators and heat pumps - Principle of the increase of entropy	4	4	0	



6	Applications to systems and control volumes - Irreversibility and availability	6	6	0	
7	Power and refrigeration cycles	4	4	0	
Total		28	28	0	

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

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	20%
2	Practical Examination	0%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

No.	Facility	Choice	No.	Facility	Choice
1	Lecture Classroom	√	6	Wireless Board	×
2	Lab Facilities	×	7	Presenter	√
5	Visualizer	×	8	Wireless Internet	√

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	74.82%

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	The aim of the course needs to be adjusted to probably describe the content

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.

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

No.	Suggestions	Reasons
1	Put charts in the book	No need for this to be implemented as there is a clear charts beside the book

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some of scientific reference In the library of the institute	Add more scientific reference In the electronic library of the institute	2017-2018	Institute management

Course Coordinator: Dr. A. E. Kabeel

Head of Department: prof. Dr. Mohammed Saad Elkady

Date of Approval: 14/2/2017



Annual Course Report: Electrical Engineering Fundamentals

A. Basic Information

Program Title	All Programs
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Basic science and Engineering Department
Course Code	ENG 204
Level/ Semester	2 nd Level /1 st Semester
Specialization	Major
Authorization date of course report	14/2/2017
Exam Committee Selection Rule	Dr. Hossam Abdelfatah
External Revision of Examination	Commissioning of the Institute Management
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	3 hours / week	2 hours / week	0

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		19	100%
Students completing the course		16	84.2%
Results	Passed	10	52.6%
	Failed	6	31.5%
Grading of successful students	Excellent	4	21%
	Very Good	1	5%
	Good	1	5%
	Pass	4	21%

2. Course Teaching:

No	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Direct Current	3	2	0	Dr.Hossam Abdelfatah
2	Theory of electric circuits	3	2	0	
3	Delta and Star connections	3	2	0	
4	Sine A.C and D.C circuits	6	4	0	
5	Time vectors diagram	3	2	0	
6	Electric power and power factor in A.C circuits	6	4	0	
7	3-Phase current - Electric machines - D.C machines	6	4	0	
8	Transformers	3	2	0	



9	Induction and synchronous machines	6	4	0	
10	Methodologies	3	2	0	Dr.Hossam Abdelfatah
Total		42	28	0	

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

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	20%
2	Practical Examination	0%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	83.68%



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	Clarity of course aims is not achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aim of the course is not achieved

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.

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Add more Engineering applications	Series parallel resonance circuits	2017-2018	Institute management

Course Coordinator: Dr. Hossam Abdelfatah

Head of Department: Prof. Dr. Mohammed Saad Elkady

Date of Approval: 14/2/2017



Annual Course Report: Technical English Language 2

A. Basic Information

Program Title	All Programs
Department offering the Program	All Departments
Department Responsible for the Course	Basic science and Engineering Department
Course Code	LNG201
Level/ Semester	2 nd Level /1 st Semester
Specialization	Major
Authorization data of course report	14/2/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching hours	Lectures	Tutorial	Practical
	2hr/week	-	2hr/week

B. Specialized information:

1. Statistics

Subject	No.	Percentage
Students attending the course	275	100%
Students completing the course	263	95.64%
Results	Passed	256 93.09%
	Failed	19 6.91%
Grading of successful students	Excellent	23 8.36%
	Very Good	66 24%
	Good	102 37.1%
	Pass	65 23.64%

2. Course Teaching:

No.	Topics actually taught	No. of hours			Lecturer
		Lectures	Tutorial	Practical	
1	Water. Bob drives a hard bargain	2	0	2	Mr. Emad Abo El-naga
2	Chemical and physical properties.\Bob,s big coolie order	2	0	2	
3	Water cycle\Amber comes over to bake cookies	2	0	2	
4	Human uses\Amber and Ted heat up the kitchen	2	0	2	
5	Heat transfer\Nicole practices her election speech	2	0	2	



6	Graphic language\Bob brings the cookies to the village market	2	0	2	
7	Energy\Carol tells Bob the good news	2	0	2	
Total of hours		14	0	14	

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

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	10%
2	Practical Examination	10%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment



5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	72.88%

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	Clarity of courses aims is partially achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved

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

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

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some of linguistic reference in the library of the institute	Add more linguistic books in the electronic library of institute	2017-2018	Institute management

Course Coordinator: Mr. Emad Abo El- naga

Head of Department: prof. Dr. Mohammed Saad Elkady

Date of Approval: 14/2/2017



Annual Course Report: Mathematics 4

A. Basic Information

Program Title	Chemical Engineering Program
Department offering the Program	All Departments
Department Responsible for the Course	Basic Sciences and Engineering
Course Code	MTH 202
Level/ Semester	2 nd Level /2 nd Semester
Specialization	Major
Authorization data of course report	2/7/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	2 hours/week	2 hours/week	-

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		271	100%
Students completing the course		259	95.57%
Results	Passed	179	66%
	Failed	80	29.5%
Grading of successful students	Excellent	18	6.6%
	Very Good	37	13.6%
	Good	42	15.5%
	Pass	82	30.25%

2. Course Teaching:

No.	Topics	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Special functions – Fourier series	4	4	0	Dr. Ebrahim el Shamy
2	periodic functions and Euler's laws	2	2	0	
3	Fourier's integrations	4	4	0	
4	solutions of the differential equations by series	2	2	0	
5	solving the partial differential equations	2	2	0	
6	Functions with complex variables	2	2	0	
7	complex quantities algebra	2	2	0	
8	multiple values functions	2	2	0	
9	the analytical functions and Koshi's theorem	2	2	0	
10	the complex series and Taylor and Lorant series	2	2	0	



11	the zeros, unique points and the rest	2	2	0	Dr. Ebrahim el Shamy
12	the infinite series	2	2	0	
Total		28	28	0	

- Topics taught as a percentage of the content specified: 100 %
- Lecturers commitment of the course content: 100 %
- Coverage of exam topics to course content: 80 %
- Used Teaching and Learning Methods

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	20%
2	Practical Examination	0%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	75.02%



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	The Aim of the course needs to be adjusted to describe the course well

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.

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Teaching method	Increase the integration between basic math and engineering field during the course	2017-2018	Dr Ibrahim El Shamy

Course Coordinator: Dr. Ebrahim el Shamy

Head of Department: prof. Dr. Mohammed Saad Elkady

Date of Approval: 2/7/2017



Annual Course Report: Organic Chemistry

A. Basic Information

Program Title	Chemical Engineering Program
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	CHE 202
Level/ Semester	2 nd Level /2 nd Semester
Specialization	Major
Authorization date of course report	4/6/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	3 hrs./ week	0	2 hrs. /week

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		20	100%
Students completing the course		18	90%
Results	Passed	13	72%
	Failed	5	28%
Grading of successful students	Excellent	0	0%
	Very Good	3	16.6%
	Good	6	33%
	Pass	4	22.2%

2. Course Teaching:

No	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Organic Chemistry: basic concepts	3	0	2	Associate prof. Khaled Samir
2	Alkanes	3	0	2	
3	Stereochemistry	6	0	4	
4	Alkenes	3	0	2	
5	Alkynes	3	0	2	
6	Aromatic Compounds	6	0	4	
7	Alcohols	3	0	2	
8	Ethers	3	0	2	
9	Aldehydes and Ketones	3	0	2	
10	Carboxylic Acids and their Derivatives	3	0	2	
11	Amines	3	0	2	
12	Poly functional compounds	3	0	2	
Total		42	0	28	



- Topics taught as a percentage of the content specified: 90%
- Lecturers commitment of the course content: 100 %
- Coverage of exam topics to course content: 80 %
- Used Teaching and Learning Methods

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	10%
2	Practical Examination	10%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	80.8%

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	Clarity of course aims is not achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved

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

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

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Introduce virtual lab technique	Used suitable videos	2017-2018	Associate prof. Khaled Samir

Course Coordinator: Associate prof. Khaled Samir

Head of Department: Associate prof. Khaled Samir

Date of Approval: 4/6/2017



Annual Course Report: Inorganic Chemistry

A. Basic Information

Program Title	Chemical Engineering Program
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	CHE 203
Level/ Semester	3 rd Level /1 st Semester
Specialization	Major
Authorization date of course report	12/2/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	3 hours /week	0	2 hours /week

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		35	100%
Students completing the course		34	97.14%
Results	Passed	25	73.53%
	Failed	9	26.47%
Grading of successful students	Excellent	6	17.65%
	Very Good	4	11.76%
	Good	4	11.76%
	Pass	11	32.35%

2. Course Teaching:

No .	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Atomic structure	6	0	0	Dr. Ramadan Elkateb
2	Periodic table	6	0	0	
3	Chemical bonding	9	0	0	
4	Hydrogen	3	0	0	
5	Representative elements	12	0	0	
6	Transition elements	6	0	0	
7	Acidic radical	0	0	12	
8	Basic radical	0	0	12	
9	Revision for acidic and basic radicals	0	0	4	
Total		42	0	28	



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

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	10%
2	Practical Examination	10%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	60.17%

6- Course enhancement suggestions

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



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

No.	Comments
1	Clarity of course aims is not achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved

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

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

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Introduce virtual lab technique	Use more videos	2017-2018	DR. Ramadan Elkateb
2	Increase some of scientific reference in the library of the institute	Add more scientific reference In the electronic library of the institute	2017-2018	Institute management
3	Visit some water treatment plant and renewable energy.	Provide field visits	2017-2018	Institute management

Course Coordinator: Dr. Ramadan Elkateb

Head of Department: Ass. Prof. Dr. Khaled samir

Date of Approval: 12/2/2017



Annual Course Report: Strength of Materials

A. Basic Information

Program Title	Chemical Engineering Program
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Basic Sciences and Engineering Department
Course Code	ENG 205
Level/ Semester	2 nd Level /1 st Semester
Specialization	Major
Authorization date of course report	14/2/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	2 hours /week	2 hours/week	-

B. Specialized information:

1. Statistics

Subject	No.	Percentage
Students attending the course	19	100%
Students completing the course	18	95%
Results	Passed	14 74%
	Failed	4 20%
Grading of successful students	Excellent	2 10.5%
	Very Good	5 26.4%
	Good	3 15.8%
	Pass	4 21.3%

2. Course Teaching:

No	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Simple states of stress and strain	2	2	0	prof. Dr. Abd Elnabi Kabeel
2	Tension and comprssion stress.	4	4	0	
3	Shear sress in bolts	4	4	0	
4	Bending and shearing stresses in beams	6	6	0	
5	Torsion stresses	6	6	0	
6	Analysis of thin-walled pressure vessels	4	4	0	
7	Analysis of plane stress	2	2	0	
Total hours		28	28	0	



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

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	10%
2	Practical Examination	10%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	75.5%

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	Clarity of course aims is not achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved

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

No.	Suggestions
1	Using online course material.

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

No.	Suggestions	Reasons
1	Provide training on how to use a new teaching technology in their classes.	Needing of extra internet system and smart boards

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some of scientific reference in the library of the institute	Add more strength of materials books in the electronic library of institute	2017-2018	Institute management

Course Coordinator: prof. Dr. Abd Elnabi Kabeel

Head of Department: prof. Dr. Mohammed Saad Elkady

Date of Approval: 14/2/2017



Annual Course Report: Introductions to Information Technology

A. Basic Information

Program Title	All Programs
Department offering the Program	All Departments
Department Responsible for the Course	Basic Science and Engineering Department
Course Code	ENG206
Level / Semester	2 nd level / 1 st Semester
Specialization	Minor
Authorization date of course report	14/2/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number	1

Teaching Hours	Lectures	Tutorial	Practical
	2 hours/week	0	2 hours/week

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		288	100%
Students completing the course		278	96.5 %
Results	Passed	231	84 %
	Failed	47	16 %
Grading of successful students	Excellent	18	8 %
	Very Good	58	25 %
	Good	71	30.7 %
	Pass	84	36.3 %

2. Topics actually taught:

No	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Introduction to information systems	4	0	0	Dr. Yousry/Elhelaly
2	Software and hardware used in information systems	6	0	0	
3	Communication and Networks	4	0	0	
4	Computer Networking	6	0	0	
5	The internet; the foundations, Resources and uses of the internet, Emphasizing practical skills for finding, Reading and authorizing materials	4	0	0	
6	Privacy Security and Ethics	4	0	0	
7	Web Design using HTML Language		0	28	
Total hours		28	0	28	



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

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	10%
2	Practical Examination	10%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	73.71%

6- Course enhancement suggestions

No.	Suggestions
1	Integrating work experiences with education.



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

No.	Comments
1	Clarity of course aims is not achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved

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.

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Add more Engineering applications	-	2017-2018	Dr. Yosry El-Helaly

Course Coordinator: Dr. Yosry El-Helaly

Head of Department: Prof. Dr. Mohammed SaadElkady

Date of Approval: 1/2/2017



Annual Course Report: Technical Report Writing

A. Basic Information

Program Title	All Programs
Department offering the Program	All Departments
Department Responsible for the Course	Basic Science and Engineering Department
Course Code	ENG207
Level / Semester	2 nd level / 2 nd Semester
Specialization	Minor
Authorization date of course report	1/7/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number	1

Teaching Hours	Lectures	Tutorial	Practical
	2 hours/week	0	2 hours/week

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		283	100%
Students completing the course		234	82.26%
Results	Passed	234	82.26%
	Failed	49	17.31%
Grading of successful students	Excellent	36	24.51%
	Very Good	57	24.35%
	Good	61	26.06%
	Pass	80	34.19%

2. Course Teaching:

No	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Introduction to technical writing: Define a report, Types of reports, Aim - Common concepts: clarity of Writing, Consistency -Supporting Material-Language rule	4	0	0	Dr. Yousry Elhelaly
2	Common components of a technical report: Organization of report sections, Sections function and content.	4	0	0	
3	How to write a technical report: Identify layout, Determine Audience, Assign reference, add non text component,	4	0	0	



	Mechanics of report writing, Quantitative Writing			
4	Equations, Tables and Figures	2	0	0
5	Literature citations	2	0	0
6	Using word processing for Writing Report	2	0	8
7	Creating slides with presentation graphics programs	2	0	8
8	MS Excel Application and power view report command	4	0	8
9	Database Report using MS SQL	4	0	4
Total hours		28	0	28

- Topics taught as a percentage of the content specified: 100 %

- Lecturers commitment of the course content: 100 %

- Coverage of exam topics to course content: 95 %

- Used Teaching and Learning Methods

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	10%
2	Practical Examination	10%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment



5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	60.87%

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	Clarity of course aims is not achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved

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

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

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some of scientific reference In the library of the institute	Add more scientific reference In the electronic library of the institute	2017-2018	Institute management

Course Coordinator: Dr. Yousry Elhelaly

Head of Department: Prof. Dr. Mohammed Saad Elkady

Date of Approval: 1/7/2017



Annual Course Report: Engineering Probability and Statistics

A. Basic Information

Program Title	All Programs
Department offering the Program	All Departments
Department Responsible for the Course	Basic Science and Engineering Department
Course Code	MTH301
Year/ Level	Third level-first term
Specialization	Major
Authorization data of course report	14/2/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	2 hours/week	2 hours/week	-

B. Specialized information:

1. Statistics

Subject	No.	Percentage	
Students attending the course	152	100%	
Students completing the course	149	98%	
Results	Passed	134	88.1%
	Failed	15	9.9%
Grading of successful students	Excellent	34	22.3%
	Very Good	31	20.4%
	Good	29	19.1%
	Pass	40	26.3%

2. Course Teaching:

No	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Probability statistics	4	4	0	Dr. Mohammed Shokry
2	Discrete and continuous probability distributions.	6	6	0	
3	Statistics in engineering.	4	4	0	
4	Descriptive statistics sampling distribution	2	2	0	
5	Estimation and confidence intervals	4	4	0	
6	Hypothesis testing	4	4	0	
7	Simple regression	4	4	0	
Total hours		28	28	0	



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

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	20%
2	Practical Examination	0%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	72.01%

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	ILOs don't describe Aim of the course well

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.

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

No.	Suggestions	Reasons
1	Perform study cases of actual problems in engineering fields	Put in the next year plan

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Teaching method	Perform study cases of actual problems in engineering fields	2017-2018	Dr. Mohammed Shokry

Course Coordinator: Dr. Mohammed Shokry
Head of Department: Prof. Dr. Mohammed SaadElkady
Date of Approval: 2/7/2017



Annual Course Report: Physical Chemistry

A. Basic Information

Program Title	Chemical Engineering Program
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	CHE 301
Level/ Semester	3 rd Level /1 st Semester
Specialization	Major
Authorization date of course report	15/2/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	3 hours / week	0	2 hours / week

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		30	100%
Students completing the course		28	93.3%
Results	Passed	23	82.14%
	Failed	5	17.86%
Grading of successful students	Excellent	7	25%
	Very Good	4	14.28%
	Good	2	7.14%
	Pass	10	35.7%

2. Course Teaching:

No.	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Gases (Ideal gas, real gas)	6	0	4	Dr. Ramadan Elkateb
2	Solutions (true and colloidal solutions)	6	0	4	
3	Chemical kinetics (Rate of reaction)	6	0	4	
4	Chemical kinetics (Rate of reaction)	6	0	4	
5	Ionic equilibrium	6	0	4	
6	Chemical thermodynamic	6	0	4	
7	Surface chemistry (Adsorption)	6	0	4	
	Total	42	0	28	

- 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 Method	Choice
1	Lectures	√
2	Discussion Sessions	√
3	Information Collection from Different Sources	√
4	Practical	√
5	Research Assignment	√
6	Field Visits	×
7	Case Studies	√
8	Smart Sessions	×
9	...	×

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	10%
2	Oral Examination	0%
3	Practical Examination	10%
4	Semester work	20%
5	Other types of assessment	0%
6	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	61.28%

6- Course enhancement suggestions

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



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

No.	Comments
1	Clarity of course aims is not achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved

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

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

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some of scientific reference In the library of the institute	Add more scientific reference In the electronic library of the institute	2017-2018	Institute management
2	Visit some plants	Provide field visits	2017-2018	Institute management

Course Coordinator: Dr. Ramadan Elkateb

Head of Department: Dr. Khaled Samir

Date of Approval: 15/2/2017



Annual Course Report: material science and metallurgy

A. Basic Information

Program Title	Chemical Engineering Program
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	CHE 302
Level/ Semester	3 rd Level /1 st Semester
Specialization	Major
Authorization date of course report	15/2/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	3 hours / week	2 hours / week	0

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		21	100%
Students completing the course		21	100%
Results	Passed	20	95.24%
	Failed	1	4.76%
Grading of successful students	Excellent	9	42.86%
	Very Good	1	95.24%
	Good	2	9.52%
	Pass	8	38.09%

2. Course Teaching:

No	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Structure of metals and alloys	12	8	0	Dr. Hend Gadow
2	Structure of ceramics and glasses	12	8	0	
3	Structure of polymers	3	2	0	
4	Thermodynamics of condensed phase	6	4	0	
5	Processing of materials	9	6	0	
	Total	42	28	0	

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



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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	20%
2	Practical Examination	0%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	77.17%

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	Clarity of course aims is not achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved



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

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

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Using the internet in the research	self-study	2017-2018	Dr: Hend ElSayed Gadow
2	Increase some of scientific reference in the library of the institute	Add more scientific reference In the electronic library of the institute	2017-2018	Institute management

Course Coordinator: Dr. Hend Elsayed

Head of Department: Associate prof. Khaled Samir

Date of Approval: 15/2/2017



Annual Course Report: Fluid mechanics

A. Basic Information

Program Title	All Programs
Department offering the Program	All Departments
Department Responsible for the Course	Basic science and Engineering Department
Course Code	ENG 301
Level / Semester	3 rd level / 2 nd Semester
Specialization	Major
Authorization data of course report	8/7/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	2 hours	1 hours/week	1 hours/week

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		323	100%
Students completing the course		309	95.6%
Results	Passed	297	91.9%
	Failed	12	3.7%
Grading of successful students	Excellent	83	25.7%
	Very Good	91	28.2%
	Good	74	22.9%
	Pass	49	15.1%

2. Course Teaching:

No	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Fluid properties, fluid statics, kinematics	2	2	0	Prof.Dr. Mohammed saad Elkady
2	Fluid dynamics including energy and Momentum equations	4	4	0	
3	Dimensional analysis, Laminar flow, Turbulent flow and its applications	2	2	0	Dr. Salah Ali Sayed dafa
4	Forces on immersed bodies, Introduction to compressible flow	4	4	0	
5	Applications to filtration and fluidization	4	4	0	



6	Laboratory course in Fluid Mechanics includes experiments on venture-meter, friction losses in pipes	6	6	0	
7	Center of pressure, Flow measuring apparatus, multi-pump test (Pump characteristics) and losses in piping systems	6	6	0	
Total hours		28	28	0	

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

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	10%
2	Practical Examination	10%
3	Semester work	20%
4	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	√
11	Wireless Internet	√
12	...	×

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment



5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	70.03%

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	Clarity of course objectives is partially achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the objectives of the course is not achieved

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

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

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some of scientific reference In the library of the institute	Add more Fluid mechanics books in the electronic library of institute	2017-2018	Institute management

Course Coordinator: prof. Dr. Mohammed Saad Elkady

Dr. Salah Ali Sayed dafa

Head of Department: prof. Dr. Mohammed Saad Elkady

Date of Approval: 8 / 7/ 2017



Annual Course Report: Principles of Engineering Design

A. Basic Information

Program Title	Chemical Engineering Program
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Basic Sciences and Engineering Department
Course Code	ENG302
Level / Semester	3 rd Level / 1 st Semester
Specialization	Major
Authorization data of course report	14/2/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	2hours	2 hours/week	-

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		26	100%
Students completing the course		26	100%
Results	Passed	16	61.54%
	Failed	10	38.46%
Grading of successful students	Excellent	4	15.38%
	Very Good	3	11.54%
	Good	3	11.54%
	Pass	6	23.08%

2. Course Teaching:

No	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Introduction to Mechanical Engineering Design.	4	4	0	Dr.Esam Elkinany
2	Stress Analysis.	4	4	0	
3	Shafts and axles.	4	4	0	
4	Gears	4	4	0	
5	Belts.	4	4	0	
6	Privets.	4	4	0	
7	Welding.	4	4	0	
Total		28	28	0	

- Topics taught as a percentage of the content specified: 100 %



- Lecturers commitment of the course content: 100 %
- Coverage of exam topics to course content: 90 %
- Used Teaching and Learning Methods

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	20%
2	Semester work	20%
3	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	70.26%

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	Clarity of course aims is partially achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved

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

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

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some of scientific reference In the library of the institute	Add more scientific reference In the electronic library of the institute	2017-2018	Institute management

Course Coordinator: Dr. Esam Elkinany

Head of Department: prof.Dr. Mohammed Saad Elkady

Date of Approval: 14/2/2017



Annual Course Report: Engineering Economy

A. Basic Information

Program Title	Chemical Engineering Program
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Basic Sciences and Engineering Department
Course Code	ENG303
Level / Semester	3 rd level / 2 nd Semester
Specialization	Major
Authorization data of course report	2/7/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	2 hours/week	2 hours/week	-

B. Specialized information:

1. Statistics

Subject	No.	Percentage
Students attending the course	49	100%
Students completing the course	40	81.63%
Results	Passed	40 81.63%
	Failed	9 18.37%
Grading of successful students	Excellent	18 36.73%
	Very Good	6 12.24%
	Good	8 16.33%
	Pass	8 16.33 %

2. Course Teaching:

No	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	This course covers the basic concepts of engineering economics as applied to the evaluation of capital investment alternatives in both the private	6	6	0	Dr. Abdu El Naquib
2	Attention is given to the time value of money by showing the concepts and techniques for evaluating the worth of products, systems, structures, and services in relation to their cost	8	8	0	



3	Economic and cost concepts: calculating economic equivalence, comparison of alternatives and replacement economy. Economic optimization in design and operations	8	8	0	Dr. Abdu El Naquib
4	Cost estimation of products and systems.	6	6	0	
Total hours		28	28	0	

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

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	20%
2	Practical Examination	-
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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



4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	70.98%

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	ILOs don't describe the aim of the course probably

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.

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

No.	Suggestions	Reasons
1	The doctor uses Indian units not Egyptian units	No real problem with this in the course teaching method

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Add more Engineering applications	Use application of real life to the course	2017-2018	Dr. Abdu El Naquib

Course Coordinator: Dr. Abdu El Naquib

Head of Department: prof. Dr. Mohammed SaadElkady

Date of Approval: 8/7/2017



Annual Course Report: Numerical Methods in Engineering

A. Basic Information

Program Title	All programs
Department offering the Program	All Departments
Department Responsible for the Course	Basic Science and Engineering Department
Course Code	MTH 302
Level / Semester	3 rd Level / 1 st Semester
Specialization	Major
Authorization date of course report	14/2/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	2 hours/week	2 hours/week	-

B. Specialized information:

1. Statistics

Subject	No.	Percentage	
Students attending the course	155	100%	
Students completing the course	148	95.5%	
Results	Passed	128	82.6%
	Failed	20	12.9%
Grading of successful students	Excellent	51	32.9%
	Very Good	27	17.4%
	Good	19	12.2%
	Pass	31	20.1%

2. Course Teaching:

No	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Numerical solution of linear and nonlinear systems	4	4	0	Dr. Mohammed Shokry
2	Numerical differentiation and integration	6	6	0	
3	Curve fitting and interpolation	10	10	0	
4	Numerical solution of initial value problems	4	4	0	
5	Boundary and eigen value problems	4	4	0	
Total hours		28	28	0	



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

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	20%
2	Practical Examination	0%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

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.
3	Transplant And Assess Pedagogy Utilizing Such Technologies To Enhance Students' Learning.



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

No.	Comments
1	ILOs don't describe Aim of the course well

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.

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

No.	Suggestions	Reasons
1	Perform study cases of actual problems in engineering fields	Put in the next year plan

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Enhancing teaching method	Perform study cases of actual problems in engineering fields	2017-2018	Dr. Mohammed Shokry

Course Coordinator: Dr. Mohammed Shokry

Head of Department: prof. Dr. Mohammed Saad Elkady

Date of Approval: 14/2/2017



Annual Course Report: Chemical Engineering Principles II

A. Basic Information

Program Title	Chemical Engineering Program
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	CHE 303
Level/ Semester	3 rd Level /2 nd Semester
Specialization	Major
Authorization date of course report	4/6/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	3 hours / week	2 hours /week	0

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		27	100%
Students completing the course		27	100%
Results	Passed	25	92.8%
	Failed	2	7.24%
Grading of successful students	Excellent	15	60%
	Very Good	5	20%
	Good	5	20%
	Pass	0	0%

2. Course Teaching:

No.	Topics actually taught	No. of hours			Lecture r
		Lecture	Tutorial	Practical	
1	Simultaneous material and energy balances of complete process flow sheets	6	4	0	Dr/ Yasser Reda
2	Introduction of computer methods to solve chemical engineering problems	6	4	0	
3	Equation-based approach and Degrees of freedom analysis	6	4	0	
4	Conceptual design of chemical processes	6	4	0	
5	Introduction to basic Chemical Engineering processes (e.g. humidification, binary distillation, extraction)	12	8	0	
6	Computer-aided process design	6	4	0	
Total		42	28	0	



- Topics taught as a percentage of the content specified: 100 %
- Lecturers commitment of the course content: 100 %
- Coverage of exam topics to course content: 80 %
- Used Teaching and Learning Methods

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	20%
2	Practical Examination	0%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	65.23%

6- Course enhancement suggestions

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



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

No.	Comments
1	Clarity of course aims is not achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved

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
1	Using online course material.

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Add more new technique	Research for the new technique	2017-2018	Dr Yasser Reda

Course Coordinator: Dr: Yasser Reda

Head of Department: Associate prof. Khaled Samir

Date of Approval: 4/6/2017



Annual Course Report: chemical engineering thermodynamics

A. Basic Information

Program Title	Chemical Engineering Program
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	CHE 304
Level/ Semester	3 rd Level /1 st Semester
Specialization	Major
Authorization date of course report	3/2/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	3 hours / week	0	2 hours / week

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		54	100%
Students completing the course		54	100%
Results	Passed	52	96.2%
	Failed	2	3.7%
Grading of successful students	Excellent	34	62.9%
	Very Good	11	20.3%
	Good	3	5.5%
	Pass	4	9.2%

2. Course Teaching:

No.	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Mixtures <ul style="list-style-type: none"> composition variables partial molar quantities gas mixtures liquid and solid mixtures of nonelectrolytes activity coefficients in mixtures of nonelectrolytes evaluation of activity coefficients 	14	0	6	Dr. Hend Gadaw



	<ul style="list-style-type: none"> activity of an uncharged species 				
2	<p>Electrolyte solutions</p> <ul style="list-style-type: none"> single-ion quantities solution of a symmetrical electrolyte electrolytes in general the debye–hu\ddot{c}kel theory mean ionic activity coefficients from osmotic coefficients 	14	0	10	
3	<p>Chemical-reaction equilibria</p> <ul style="list-style-type: none"> the reaction coordinate application of equilibrium criteria to chemical reactions 3.3 the standard gibbs-energy change and the equilibrium constant effect of temperature on the equilibrium constant evaluation of equilibrium constant relation of equilibrium constants to composition equilibrium conversions for single reactions phase rule and duhem's theorem for reacting systems multi reaction EQUILIBRIA 	14	0	12	
Total		42	0	28	

- Topics taught as a percentage of the content specified: **80 %**
- Lecturers commitment of the course content: **80 %**
- Coverage of exam topics to course content: **90 %**
- Used Teaching and Learning Methods

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



- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	10%
2	Practical Examination	10%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	70.64%

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	Clarity of course aims is not achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved

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

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



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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some of scientific reference in the library of the institute	Add more scientific reference in the electronic library of the institute	2017-2018	Institute management
2	Visit some plant	Provide field visits	2017-2018	Institute management

Course Coordinator: Dr Hend Elsayed

Head of Department: Associate prof. Khaled Samir

Date of Approval:



Annual Course Report: Analytical chemistry

A. Basic Information

Program Title	Chemical Engineering Program
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	CHE 305
Level/ Semester	3 rd Level /2 nd Semester
Specialization	Major
Authorization date of course report	3/7/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	3 hours / week	0	2 hours / week

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		27	100%
Students completing the course		27	100%
Results	Passed	25	92.6%
	Failed	2	7.4%
Grading of successful students	Excellent	15	55.5%
	Very Good	5	18.5%
	Good	5	18.5%
	Pass	0	0%

2. Course Teaching:

No	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Basic tools in analytical chemistry	6	0	4	Dr. Hend Gadow
2	Titrimetric Methods of Analysis	12	0	10	
3	Gravimetric Methods of Analysis	6	0	6	
4	Evaluating Analytical Data	12	0	0	
5	Instrumental chemical analysis	6	0	8	
	Total	42	0	28	

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



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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	10%
2	Practical Examination	10%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	71.03%

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	Clarity of course aims is not achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved

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

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

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some of scientific reference In the library of the institute	Add more scientific reference In the electronic library of the institute	2017-2018	Institute management
2	Visit some plant	Provide field visits	2017-2018	Institute management

Course Coordinator: Dr Hend Elsayed

Head of Department: Associate prof. Khaled Samir

Date of Approval: 7/2017



Annual Course Report: process dynamic and control

A. Basic Information

Program Title	Chemical Engineering Program
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	CHE 306
Level/ Semester	3 rd Level /1 st Semester
Specialization	Major
Authorization date of course report	7/2/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	2 hours / week	0	2 hours / week

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		29	100%
Students completing the course		26	89.6%
Results	Passed	22	75.8%
	Failed	7	24.13%
Grading of successful students	Excellent	6	20.68%
	Very Good	9	31%
	Good	2	6.8%
	Pass	1	3.4%

2. Course Teaching:

No.	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Automatic control merits and basic features	2	2	0	Dr.Bedir Yousif
2	Classification of control action (open-loop and closed-loop, feed-back and feed-forward, process and position control)	4	4	0	
3	Mathematical tools (Linearization, Laplace transforms and block diagram algebra)	4	4	0	
4	Process dynamics (first, second and higher orders)	4	4	0	
5	Measuring and actuating elements	2	2	0	



6	Two-position controller and Three-term controller	4	4	0
7	Controller mechanism and optimum setting	2	2	0
8	System stability (algebraic and graphical methods).	2	2	0
9	Laboratory experiments demonstrating the principles covered. These include temperature, pressure, flow and concentration measuring devices, and process control simulation for typical chemical plants.	4	4	0
Total		28	28	0

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

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	20%
2	Practical Examination	0%
3	Semester work	20%
4	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	√
11	Wireless Internet	√
12	...	×



4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	58.45%

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	Clarity of course aims is not achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved

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

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

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some of scientific reference in the library of the institute	Add more scientific reference for control system in the electronic library of the institute	2017-2018	Institute management

Course Coordinator: Dr. Bedir Yousif

Head of Department: Dr. Haythem Hussein Abdullah

Date of Approval: 5/3/2017



Annual Course Report: Operation research

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	ENG 308
Level/ Semester	3 rd Level /2 nd Semester
Specialization	Major
Authorization date of course report	3/7/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	2 hours /week	2 hours /week	0

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		23	100%
Students completing the course		23	100%
Results	Passed	22	95.7%
	Failed	1	4.3%
Grading of successful students	Excellent	16	69.6%
	Very Good	5	21.7%
	Good	0	0%
	Pass	1	4.3%

2. Course Teaching:

No.	Topics actually taught	No. of hours			Lecturer
		Lectures	Tutorial	Practical	
1	Models and methods of operations research in solving engineering and management problems.	4	4	0	Dr.Sameh Abdelhameed
2	Linear programming, simplex method, duality, sensitivity analysis	4	4	0	
3	Transportation, assignment and transshipment models	4	4	0	
4	Network flows models and integer programming	4	4	0	



5	Probabilistic models in operations research problems	4	4	0	Dr.Sameh Abdelhameed
6	Queuing theory, Markov chain and decision analysis	4	4	0	
7	Marko vain decision process and utility functions	4	4	0	
Total		28	28	0	

- 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 Method	Choice
1	Lectures	√
2	Discussion Sessions	√
3	Information Collection from Different Sources	√
4	Practical	×
5	Research Assignment	√
6	Field Visits	×
7	Case Studies	×
8	Smart Sessions	×
9	...	×

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	20%
2	Oral Examination	0%
3	Practical Examination	0%
4	Semester work	20%
5	Other types of assessment	0%
6	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	×
11	Wireless Internet	√
12	...	×

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment



5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	71.03%

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	Clarity of course aims is partially achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved

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

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

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some of scientific reference In the library of the institute	Add more scientific reference In the electronic library of the institute	2017-2018	Institute management

Course Coordinator: Dr.Sameh Abdelhameed

Head of Department: Prof. Dr. Mohammed Saad El-kady

Date of Approval: 3/7/2017



Annual Course Report: Reactor Design

A. Basic Information

Program Title	Chemical Engineering Program
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	CHE 401
Level / Semester	4 th level/ 1 st Semester
Specialization	Major
Authorization date of course report	14/2/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	3 hours / week	2 hours / week	0

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		55	100%
Students completing the course		53	96.36%
Results	Passed	47	88.68%
	Failed	6	11.32%
Grading of successful students	Excellent	11	23.4%
	Very Good	16	34.04%
	Good	14	29.79%
	Pass	6	12.77%

2. Course Teaching:

No.	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Fundamentals of thermodynamics and kinetics of chemical reactions	3	2	0	Prof. Dr. / Taha E. Farrag
2	Analysis of batch, plug-flow and continuous stirred tank reactors for different types of reactions	6	4	0	
3	Non ideal reactor analysis, including residence time distribution, back mixing and dispersion models	6	4	0	
4	Kinetics of isothermal and non-isothermal ideal reactors.	6	4	0	
5	Kinetics of heterogeneous or catalytic reactions	3	2	0	



6	Design of different types of catalytic and non-catalytic reactors	3	2	0	Prof. Dr. / Taha E. Farrag
7	Mass and energy transfer limitations in heterogeneous reaction systems	3	2	0	
8	Catalyst effectiveness	3	2	0	
9	Reactor stability and sensitivity to operating parameters	3	2	0	
10	Optimization of reactor design and Factors affecting choice of reactors	6	4	0	
Total		42	28	0	

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

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	20%
2	Practical Examination	0%
3	Semester work	20%
4	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	√
11	Wireless Internet	√
12	...	×



4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	47.43%

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	Clarity of course aims is not achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved

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

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

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

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



10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Using the internet in the research	self-study	2017-2018	Prof. Dr. / Taha E. Farrag
2	Increase some of scientific reference In the library of the institute	Add more scientific reference In the electronic library of the institute	2017-2018	Institute management

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

Head of Department: Ass. Dr. Khaled Samir

Date of Approval: 14 /2 / 2017



Annual Course Report: Heat transfer

A. Basic Information

Program Title	Chemical Engineering Program
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	CHE 402
Level/ Semester	4 th Level /2 nd Semester
Specialization	Major
Authorization date of course report	3/7/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	3 hours / week	-	2 hours / week

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		22	100%
Students completing the course		20	90.9%
Results	Passed	25	77.3%
	Failed	3	13.6%
Grading of successful students	Excellent	7	31.8%
	Very Good	3	13.6%
	Good	1	4.5%
	Pass	6	27.2%

2. Course Teaching:

No.	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	apply their knowledge of mathematics and science to real thermal engineering systems	3	0	2	Prof. Dr. Taha Ibrahim Farrag
2	expansion of students engineering skills, developed in thermodynamics and fluid mechanics, is undertaken	3	0	2	
3	Students are required to identify, formulate and solve thermal problems using a combination of mass and energy balances and energy rate equations.	3	0	2	



4	The course combines analytical techniques and design principles as applied to thermal systems.	3	0	2	
5	The students will have a full understanding of conduction, convection, radiation, condensation and boiling heat transfer and will be able to design a heat exchanger system.	30	0	20	
Total		42	0	28	

- Topics taught as a percentage of the content specified: 100 %

- Lecturers commitment of the course content: 95%

- Coverage of exam topics to course content: 90 %

- Used Teaching and Learning Methods

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	10%
2	Practical Examination	10%
3	Semester work	20%
4	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	√
11	Wireless Internet	×
12	...	×

4- Administrative Constraints:

No.	Constraints
1	Finance
2	equipment



5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	74.79%

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	Clarity of course aims is not achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved

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

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

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some of scientific reference In the library of the institute	Add more scientific reference In the electronic library of the institute	2017-2018	Institute management
2	Visit some plants	Provide field visits	2017-2018	Institute management

Course Coordinator: Prof. Dr. Taha Ibrahim Farrag

Head of Department: Ass. Dr./ Khaled Samir

Date of Approval: 3/7/2017



Annual Course Report: Mass Transfer

A. Basic Information

Program Title	Chemical Engineering Program
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	CHE 403
Level / Semester	4 th level/ 1 st Semester
Specialization	Major
Authorization date of course report	2/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	3 hours / week	2 hours / week	0

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		64	100%
Students completing the course		62	96.9%
Results	Passed	53	82.8%
	Failed	11	17.2%
Grading of successful students	Excellent	17	32%
	Very Good	11	20.8%
	Good	14	26.4%
	Pass	11	20.8%

2. Course Teaching:

No.	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Introduction	3	2	0	Dr. Riham Atef
2	Molecular Diffusion	3	2	0	
3	Molecular Diffusion in Gases	6	4	0	
4	Molecular Diffusion in Liquids	3	2	0	
5	Molecular Diffusion in Biological Solutions and Gels	6	4	0	
6	Molecular Diffusion in Solids	3	2	0	
7	Principles of Unsteady-state and Convective Mass Transfer	9	6	0	
8	Interphase Mass Transfer	6	4	0	



9	Mass Transfer Coefficients For Various Geometries	3	2	0	
Total		42	28	0	

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

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	20%
3	Practical Examination	0%
4	Semester work	20%
6	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	50.4%



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	Clarity of course aims is not achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved

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

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

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Using data show techniques	Preparing power point file for lectures	2017-2018	Dr. Riham Atef

Course Coordinator: Dr. Riham Atef

Head of Department: Ass.Dr./ Khaled Samir

Date of Approval: 2/2017



Annual Course Report: Corrosion Engineering

A. Basic Information

Program Title	Chemical Engineering Program
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	CHE 404
Level / Semester	4 th level/ 2 nd Semester
Specialization	Major
Authorization date of course report	4/6/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	2 hours / week	2 hours / week	0

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		56	100%
Students completing the course		52	92.85%
Results	Passed	51	98%
	Failed	1	2%
Grading of successful students	Excellent	46	90%
	Very Good	1	2%
	Good	2	4%
	Pass	2	4%

2. Course Teaching:

No.	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Theories and principles of corrosion and prevention	2	2	0	Dr/ Yasser Reda
2	Localized corrosion, pitting, crevice corrosion and cavitations	2	2	0	
3	metallurgical factors	2	2	0	
4	welding problems	2	2	0	
5	material selection	2	2	0	
6	stress corrosion cracking and corrosion fatigue	2	2	0	
7	Inspection and nondestructive testing	4	4	0	
8	water treatment for boilers and condensers	4	4	0	



9	chemical cleaning flue gas attack	2	2	0	Dr/ Yasser Reda
10	corrosion testing evaluation and simulation	4	4	0	
11	corrosion monitoring and cathode protection	2	2	0	
Total		28	28	0	

- Topics taught as a percentage of the content specified: 100 %
- Lecturers commitment of the course content: 100 %
- Coverage of exam topics to course content: 70 %
- 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	×
9	...	×

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	20%
2	Practical Examination	0%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	equipment



5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	65.06%

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	Clarity of course aims is not achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved

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

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

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Add more new technique	Research for the new technique	2017-2018	Dr Yasser Reda
2	Add some practical experiments on some alloys	Bring specimen of aluminum and steel alloy	2017-2018	Dr Yasser Reda

Course Coordinator: Dr: Yasser Reda

Head of Department: Associate prof. Khaled Samir

Date of Approval: 4/6/2017



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	ENG 408
Level / Semester	4 th level/ 1 st Semester
Specialization	Major
Authorization date of course report	14/2/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	2 hours /week	2 hours/week	-

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		57	100%
Students completing the course		56	98.25%
Results	Passed	52	92.86%
	Failed	4	7.14%
Grading of successful students	Excellent	23	41.07%
	Very Good	16	28.51%
	Good	6	10.71%
	Pass	7	12.5%

2. Course Teaching:

No	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Introduction to project management	2	2	0	Dr. Mohammed Saad
2	Project planning and scheduling –bar chart	2	2	0	
3	Network based scheduling	2	2	0	
4	Critical path method	4	4	0	
5	Program evaluation & review technique (PERT)	6	6	0	
6	Probability aspect of project completion time (casting)	6	6	0	



7	Project cost control	2	2	0	
8	Resource Allocation	2	2	0	
9	For casting funds requirement	2	2	0	
Total hours		28	28	0	

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

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	20%
2	Practical Examination	0%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment



5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	65.18%

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	Clarity of course aims is partially achieved

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

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

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some of scientific reference In the library of the institute	Add more Project Management and Control books in the electronic library of institute	2017-2018	Institute management

Course Coordinator: Dr. Mohammed Saad Elkady

Head of Department: Prof Dr. Mohammed Saad Elkady

Date of Approval: Jan/2016



Annual Course Report: Mass Transfer Operations

A. Basic Information

Program Title	Chemical Engineering Program
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	CHE 405
Level / Semester	4 th level/ 2 nd Semester
Specialization	Major
Authorization date of course report	3/7/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	3 hours /week	2 hours/ week	0

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		62	100%
Students completing the course		61	98.4%
Results	Passed	48	77.4%
	Failed	13	21%
Grading of successful students	Excellent	10	16.1%
	Very Good	15	24.2%
	Good	9	14.6%
	Pass	14	22.6%

2. Course Teaching:

No.	Topics actually taught	No. of hours			Lecturer
		Lectures	Tutorial	Practical	
1	Mass transport in fluids	3	2	0	Dr.Riham Atef
2	Mass transport phenomena in solids				
3	Inter-phase mass transport				
5	Continuous two-phase mass transport processes	3	2	0	
5	Vapor-liquid equilibrium (VLE)	3	2	0	
6	binary system distillation (plate and packed columns)	9	6	0	
7	Gas- liquid and liquid- liquid extraction	9	6	0	



8	solid-liquid extraction	3	2	0	Dr.Riham Atef
9	Humidification and drying	3	2	0	
10	Evaporation and crystallization	3	2	0	
11	Membrane separation technology	6	4	0	
Total (hrs)		42	28	0	

- 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 Method	Choice
1	Lectures	√
2	Discussion Sessions	√
3	Information Collection from Different Sources	√
4	Practical	×
5	Research Assignment	√
6	Field Visits	×
7	Case Studies	×
8	Smart Sessions	×
9	...	×

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	20%
2	Practical Examination	0%
3	Semester work	20%
4	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	×
11	Wireless Internet	×
12	...	×

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	71.54%



6- Course enhancement suggestions

No.	Suggestions
1	Improve lecture notes
2	Integrating work experiences with education by providing field visits.
3	Increasing the scientific references which relates to mass transfer operations.

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

No.	Comments
1	Clarity of course aims is not achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved

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

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

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Integrating work experiences with education by providing field visits.	Provide field visits	2017-2018	Institute management

Course Coordinator: Dr. Riham Atef

Head of Department: Ass. Prof./ Khaled Samir

Date of Approval: 7/2017



Annual Course Report: Bio organic Chemistry

A. Basic Information

Program Title	Chemical Engineering Program
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	CHE 406
Level / Semester	4 th level / 1 st Semester
Specialization	Major
Authorization date of course report	6/3/2017
Exam Committee Selection Rule	Commissioning of the Institute Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	3 hours/week	2 hours/week	0

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		65	100%
Students completing the course		63	97%
Results	Passed	52	82.5%
	Failed	11	17.5%
Grading of successful students	Excellent	23	36.5%
	Very Good	14	22.2%
	Good	7	11.1%
	Pass	8	12.7%

2. Course Teaching:

No.	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Principles of biochemistry	6	4	0	Associate prof. Khaled Samir
2	Carbohydrate	12	8	0	
3	Amino acids and proteins	9	6	0	
4	Enzymes	3	2	0	
5	Lipids	6	4	0	
6	Pharmaceutical compounds	6	4	0	
Total hours		42	28	0	

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



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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	20%
2	Practical Examination	0%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	61.33%

6- Course enhancement suggestions

No.	Suggestions
1	Improve lecture notes
2	Introduce some experiments.
3	Enrich the library by more textbooks in Biochemistry.



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

No.	Comments
1	Clarity of course aims is not achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved

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

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

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase textbooks in field of biochemistry	Supply the Institute library by recent textbooks in the field	2017-2018	Institute management

Course Coordinator: Associate prof. Khaled Samir

Head of Department: Associate prof. Khaled Samir

Date of Approval: 6/3/2017



Annual Course Report: Mechanical unit operation

A. Basic Information

Program Title	Chemical Engineering Program
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	CHE 407
Level / Semester	4 th level / 2 nd Semester
Specialization	Major
Authorization date of course report	4/6/2017
Exam Committee Selection Rule	Commissioning of the Institute Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	3 hours/week	2 hours/week	0

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		58	100%
Students completing the course		56	96.5%
Results	Passed	48	85.7%
	Failed	8	14.3%
Grading of successful students	Excellent	6	12.5%
	Very Good	16	33.3%
	Good	18	37.5%
	Pass	8	16.66%

2. Course Teaching:

No.	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Absorption and stripping	3	2	0	Prof. Dr. Taha Farag
2	Solvent extractions	3	2	0	
3	Distillation and evaporative cooling	3	2	0	
4	Solid drying	9	6	0	
5	crystallization	3	2	0	
6	Ion exchange, filtration	3	2	0	
7	Screening and sedimentation	6	4	0	
8	Computation methods in multistage and multicomponent systems and operations including particulate solids	12	8	0	
Total hours		42	28	0	



- Topics taught as a percentage of the content specified: 100 %
- Lecturers commitment of the course content: 100 %
- Coverage of exam topics to course content: 80 %
- Used Teaching and Learning Methods

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	20%
2	Practical Examination	0%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	64.75%

6- Course enhancement suggestions

No.	Suggestions
1	Improve lecture notes



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

No.	Comments
1	Clarity of course aims is not achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved

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

No.	Suggestions
1	Increasing the scientific references which relates to plant design

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Relating the course with industrial field	Provide field visits	2017-2018	Institute management

Course Coordinator: Prof. Dr. Taha Farag

Head of Department: Associate prof. Khaled Samir

Date of Approval: 4/6/2017



Annual Course Report: Process Modeling and Simulation

A. Basic Information

Program Title	Chemical Engineering Program
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	CHE 408
Level / Semester	5 th level / 1 st Semester
Specialization	Major
Authorization date of course report	21/2/2017
Exam Committee Selection Rule	Commissioning of the Institute Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	3 hours/week	0	2 hours/week

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		46	100%
Students completing the course		43	93.48%
Results	Passed	38	88.4%
	Failed	5	11.6%
Grading of successful students	Excellent	11	28.9%
	Very Good	12	31.6%
	Good	8	21.1%
	Pass	7	18.4%

2. Course Teaching:

No.	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Review of the basic principles of transport of momentum, heat, and mass with applied problems.	18	0	12	Prof. Dr. / Taha E. Farrag
2	Numerical methods for solving more complex problems of transport phenomena and kinetics.	24	0	16	
Total hours		42	0	28	

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



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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	10%
2	Practical Examination	10%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	62.11%

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	Clarity of course aims is not achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved



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

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

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Using the internet in the research	Self- study	2017-2018	Prof. Dr. / Taha E. Farrag

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

Head of Department: Ass. prof. Khaled Samir

Date of Approval: 21/2/2017



Annual Course Report: Gas Engineering

A. Basic Information

Program Title	Chemical Engineering Program
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	CHE 413
Level / Semester	4 th level/ 2 nd Semester
Specialization	Major
Authorization date of course report	3/7/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	2 hours / week	2 hours / week	0

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		52	100%
Students completing the course		51	98.1%
Results	Passed	49	94.3%
	Failed	2	3.8%
Grading of successful students	Excellent	15	28.9%
	Very Good	14	27%
	Good	13	25 %
	Pass	7	13.5%

2. Course Teaching:

No.	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Characterization of natural gas systems	4	4	0	Dr./ Riham Atef
2	Properties of natural gas systems	4	4	0	
3	Product specification	2	2	0	
4	Natural gas phase behavior	2	2	0	
5	Oil and gas separation technology	2	2	0	
6	Methods used to remove liquids from gas in separators	2	2	0	
7	Methods used to remove gas from oil in separator	2	2	0	
8	Classification and common features of separators	4	4	0	



9	Natural gas dehydration	4	4	0	
10	Overview of sweetening, and liquefaction.	2	2	0	
Total		28	28	0	

- Topics taught as a percentage of the content specified: 100 %
- Lecturers commitment of the course content: 100 %
- Coverage of exam topics to course content: 80 %
- Used Teaching and Learning Methods

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	20%
2	Practical Examination	0%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	67.44%



6- Course enhancement suggestions

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

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

No.	Comments
1	Clarity of course aims is not achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved

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

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

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Improve lecture notes	By adding extra details concerning gas engineering	2017-2018	Dr./ Riham Atef
2	Relating the course with natural gas plants.	Provide field visits	2017-2018	Institute management

Course Coordinator: Dr./ Riham Atef

Head of Department: Associate prof. Khaled Samir

Date of Approval: 7/2017



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	ENG401
Level / Semester	4 th level / 2 nd Semester
Specialization	Major
Authorization date of course report	3/ 7/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	2

Teaching Hours	Lectures	Tutorial	Practical
	3 hours / week	0	0

B. Specialized information:

1. Statistics

Subject	No.	Percentage
Students attending the course	58	100%
Students completing the course	57	98.2%
Results	Passed	53
	Failed	5
Grading of successful students	Excellent	26
	Very Good	18
	Good	4
	Pass	5

2. Course Teaching:

No.	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	The current ecological impasse	6	0	0	Prof. Mouham med Saad El- Kady Dr. Ramadan El-Kateb
2	The importance of studying environmental science – modern technology and its effect on the environment	9	0	0	
3	quality of the environment and development elements	9	0	0	
4	sources of environmental pollution and method of control (air pollution – water pollution)	9	0	0	
5	Solid wastes pollution – noise) – economics of environmental pollution control – legislations for the environment protection.	6	0	0	
6	Environmental impact assessment	3	0	0	
Total hours		42	0	0	



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

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	20%
2	Oral Examination	0%
3	Practical Examination	0%
4	Semester work	20%
5	Other types of assessment	0%
6	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	65.93%



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.
4	Increasing the scientific references which relates to the environment.

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

No.	Comments
1	Clarity of course aims is partially achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved

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

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

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some of scientific reference In the library of the institute	Add more scientific reference In the electronic library of the institute	2017-2018	Prof. Mouhammed Saad El-Kady Dr. Ramadan El-Kateb
2	Visit some water treatment plant and renewable energy.	Provide field visits	2017-2018	

Course Coordinator: Prof. Mouhammed Saad El-Kady

Dr. Ramadan El-Kateb

Head of Department: Prof. Mouhammed Saad El-Kady

Date of Approval: 3 / 7 /2017



Annual Course Report: Polymer Engineering

A. Basic Information

Program Title	Chemical Engineering Program
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	CHE 414
Level / Semester	4 th level/ 1 st Semester
Specialization	Major
Authorization date of course report	2/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	2 hours / week	2 hours / week	0

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		60	100%
Students completing the course		59	98.3%
Results	Passed	48	80%
	Failed	12	20%
Grading of successful students	Excellent	19	39.6%
	Very Good	14	29.2%
	Good	10	20.8%
	Pass	5	10.4%

2. Course Teaching:

No.	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Polymer chemistry and types of polymerization reactions.	4	4	0	Dr. Riham Atef
2	Polymerization techniques	2	2	0	
3	measurement of molecular weight	2	2	0	
4	Classification of polymers	2	2	0	
5	plastics, elastomers	4	4	0	
6	thermoplastics and thermosetting resins	2	2	0	
7	Structure, mechanical and physical properties of polymers	2	2	0	



8	manufacture of polymers	2	2	0	Dr. Riham Atef
9	Polymer processing	2	2	0	
10	Extrusion	2	2	0	
11	Injection molding and blow molding	2	2	0	
12	Manufacture and properties of some commercial polymers	2	2	0	
Total		28	28	0	

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

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	20%
2	Practical Examination	0%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment



5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	55.86%

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	Clarity of course aims is not achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved

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

No.	Suggestions
1	Increasing the scientific references which relates to polymer engineering processing.

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Lecture notes	Add extra details concerning polymers manufacture	2017-2018	Dr. Riham Atef

Course Coordinator: Dr. Riham Atef

Head of Department: Ass.Prof. Khalid Samir

Date of Approval: 2/2017



Annual Course Report: Water Desalination

A. Basic Information

Program Title	Chemical Engineering Program
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	CHE 416
Level / Semester	5 th level/ 1 st Semester
Specialization	Major
Authorization date of course report	15/2/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	2 hours / week	2 hours / week	0

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		58	100%
Students completing the course		55	94.8%
Results	Passed	51	92.7%
	Failed	4	7.3%
Grading of successful students	Excellent	33	64.7%
	Very Good	6	11.8%
	Good	2	3.92%
	Pass	10	19.61%

2. Course Teaching:

No.	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Basic concept of water desalination and combines water chemistry, scaling, corrosion, heat transfer principles and material behavior.	6	6	0	Dr. Hend Gadaw
2	Design principles as applied to desalination processes.	6	6	0	
3	Thermal (flash, vapor compression) and non-thermal (reverse-osmosis, electro -dialysis) desalination techniques.	8	8	0	
4	Water properties and quality criteria and standards as well as corrosion behavior and its control in desalination plants.	8	8	0	
Total		28	28	0	



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

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	20%
2	Practical Examination	0%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	54.76%

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	Clarity of course aims is not achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved

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

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

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some of scientific reference in the library of the institute	Add more scientific reference in the electronic library of the institute	2017-2018	Institute management
2	Visit some desalination plant	Provide field visits	2017-2018	Institute management

Course Coordinator: Dr Hend Elsayed

Head of Department: Associate prof. Khaled Samir

Date of Approval: 15/2/2017



Annual Course Report: Chemical Engineering Computer applications

A. Basic Information

Program Title	Chemical Engineering Program
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	CHE 501
Level / Semester	5 th level / 2 nd Semester
Specialization	Major
Authorization date of course report	4/6/2017
Exam Committee Selection Rule	Commissioning of the Institute Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	3 hours/week	0	2 hours/week

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		50	100%
Students completing the course		47	94%
Results	Passed	43	91%
	Failed	4	9%
Grading of successful students	Excellent	9	21%
	Very Good	16	37%
	Good	9	21 %
	Pass	9	21%

2. Course Teaching:

No.	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	The study of contemporary computer tools toward chemical engineering	6	0	4	Prof. Dr. Taha Farag
2	Study design, develop and deploy computer applications	6	0	4	
3	Applications are developed for inventory and production control systems.	9	0	6	
4	Software tools and packages utilized(, JavaScript, Java, MATLAB, MSVBA, and MS Access)	12	0	8	
5	Basic elements of MATLAB	3	0	2	
6	Programming in MATLAB	6	0	4	
Total hours		42	0	28	

- Topics taught as a percentage of the content specified: 100 %
- Lecturers commitment of the course content: 100 %
- Coverage of exam topics to course content: 80 %



- Used Teaching and Learning Methods

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	10%
2	Practical Examination	10%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	69.65%

6- Course enhancement suggestions

No.	Suggestions
1	Use more advanced programs

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

No.	Comments
1	Clarity of course aims is not achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved



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

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

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Use more advanced programs	Apply advanced chemical engineering programs such as hysys	2017-2018	Prof. Dr. Taha Farag

Course Coordinator: Prof. Dr. Taha Farag

Head of Department: Associate prof. Khaled Samir

Date of Approval: 4/6/2017



Annual Course Report: Petrochemical Engineering

A. Basic Information

Program Title	Chemical Engineering Program
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	CHE 502
Level / Semester	5 th level / 1 st Semester
Specialization	Major
Authorization date of course report	6/3/2017
Exam Committee Selection Rule	Commissioning of the Institute Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	3 hours/week	2 hours/week	0

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		50	100%
Students completing the course		48	96%
Results	Passed	41	85.5%
	Failed	7	14.5%
Grading of successful students	Excellent	20	41.6%
	Very Good	9	18.8%
	Good	5	10.4%
	Pass	7	14.5%

2. Course Teaching:

No.	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Petroleum chemistry; occurrence and composition of crude oil	3	2	0	Associate prof. Khaled Samir
2	Distillation	3	2	0	
3	catalytic and thermal cracking	9	6	0	
4	Alkylation	3	2	0	
5	Hydrogenation	3	2	0	
6	Isomerization	3	2	0	
7	Polymerization	3	2	0	
8	Techniques and economics of the production of basic and intermediate petrochemicals as well as some end products	15	10	0	
Total hours		42	28	0	



- Topics taught as a percentage of the content specified: 100 %
- Lecturers commitment of the course content: 100 %
- Coverage of exam topics to course content: 80 %
- Used Teaching and Learning Methods

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	20%
2	Practical Examination	0%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	53.57%

6- Course enhancement suggestions

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



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

No.	Comments
1	Clarity of course aims is not achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved

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

No.	Suggestions
1	Improve scientific search skills
2	Education in learning groups

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

No.	Suggestions	Reasons
1	Make visits to petrochemical plants	-----

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Relate the theoretical study by the practical field	Visits to petrochemical plants.	2017-2018	Institute management

Course Coordinator: Associate prof. Khaled Samir

Head of Department: Associate prof. Khaled Samir

Date of Approval: 6/3/2017



Annual Course Report: Industrial Technologies in Chemical Engineering

A. Basic Information

Program Title	Chemical Engineering Program
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	CHE 503
Level / Semester	5 th level/ 2 nd Semester
Specialization	Major
Authorization date of course report	4/6/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	3 hours / week	0	2 hours / week

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		43	100%
Students completing the course		40	93%
Results	Passed	39	97.5%
	Failed	1	2.5%
Grading of successful students	Excellent	33	84.6%
	Very Good	2	5.12%
	Good	1	2.56 %
	Pass	3	7.68%

2. Course Teaching:

No	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Introduction in the chemical industries and definitions – Combined processes in the chemical creation – nitration – sulphurization – halogenations – Oxidation – polymerization	12	0	8	Dr/ Yasser Reda
2	concentration on the organic industrial processes including the combined processes with operation charts until the final products	18	0	12	
3	Study of different physical and industrials knitting – natural knitting – cottons – wool etc.	12	0	8	
	Total	42	0	28	



- Topics taught as a percentage of the content specified: 100 %
- Lecturers commitment of the course content: 100 %
- Coverage of exam topics to course content: 80 %
- Used Teaching and Learning Methods

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	10%
2	Practical Examination	10%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	76.42% %

6- Course enhancement suggestions

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



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

No.	Comments
1	Clarity of course aims is not achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved

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

No.	Suggestions
1	Increasing the scientific references which relates to industrial technology

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

No.	Suggestions	Reasons
1	Integrating work experiences with education by providing different plants visits.	-----

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Integrating work experiences with education by providing field visits.	Provide field visits	2017-2018	Institute management

Course Coordinator: Dr: Yasser Reda

Head of Department: Associate prof. Khaled Samir

Date of Approval: 4/6/2017



Annual Course Report: Plant Design

A. Basic Information

Program Title	Chemical Engineering Program
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	CHE 504
Level / Semester	5 th level/ 1 st Semester
Specialization	Major
Authorization date of course report	15/2/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	3 hours / week	2 hours / week	0

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		49	100%
Students completing the course		49	100%
Results	Passed	39	79.6%
	Failed	10	20.4%
Grading of successful students	Excellent	9	23.1%
	Very Good	10	25.6%
	Good	9	23.1%
	Pass	11	28.2%

2. Course Teaching:

No.	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Introduction	3	2	0	Dr. Riham Atef
2	Process Design Development	6	4	0	
3	Flow Diagrams, Manual Flowsheet Calculations	9	6	0	
4	General Design Considerations	6	4	0	
5	Process Economics, Optimum Design, and Design Strategy	6	4	0	
6	Material Transfer, Handling, and Treatment- Equipment Design and Costs	6	4	0	
7	Materials of Construction and Fabrication of Equipment	6	4	0	
Total		42	28	0	



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

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	20%
2	Practical Examination	0%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	70.69%

6- Course enhancement suggestions

No.	Suggestions
1	Improve lecture notes
2	Integrating work experiences with education.
3	Provide field visits



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

No.	Comments
1	Clarity of course aims is not achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved

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

No.	Suggestions
1	Increasing the scientific references which relates to plant design

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Relating the course with industrial field	Provide field visits	2017-2018	Institute management

Course Coordinator: Dr. Riham Atef

Head of Department: Prof. Khalid Samir

Date of Approval: 15/2/2017



Annual Course Report: Petroleum Refining Engineering

A. Basic Information

Program Title	Chemical Engineering Program
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	CHE 505
Level / Semester	5 th level / 2 nd Semester
Specialization	Major
Authorization date of course report	4/6/2017
Exam Committee Selection Rule	Commissioning of the Institute Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	3 hours/week	2 hours/week	0

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		70	100%
Students completing the course		69	98.6%
Results	Passed	64	92.8%
	Failed	5	7.24%
Grading of successful students	Excellent	28	40.8%
	Very Good	19	27.5%
	Good	4	5.8%
	Pass	13	18.8%

2. Course Teaching:

No.	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Refinery organization	3	2	0	Associate prof. Khaled Samir
2	Refinery feed stocks and products	6	4	0	
3	Crude distillation	6	4	0	
4	Cracking and reforming	6	4	0	
5	Hydrotreating	3	2	0	
6	Alkylation	3	2	0	
7	Lubricating oils production	3	2	0	
8	Petroleum gases	3	2	0	
9	Hydroprocessing; product blending, environmental constraints on refinery products	6	4	0	
10	Term project using actual refinery data to be utilized for typical design calculation on the above operations	3	2	0	
Total hours		42	28	0	



- Topics taught as a percentage of the content specified: 100 %
- Lecturers commitment of the course content: 100 %
- Coverage of exam topics to course content: 80 %
- Used Teaching and Learning Methods

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	20%
2	Practical Examination	0%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	84.49%

6- Course enhancement suggestions

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



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

No.	Comments
1	Clarity of course aims is not achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved

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

No.	Suggestions
1	Improve scientific search skills
2	Education in learning groups

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

No.	Suggestions	Reasons
1	Make visits to petroleum refinery	-----

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Relate the theoretical study by the practical field	Visits to petroleum refinery.	2017-2018	Institute management

Course Coordinator: Associate prof. Khaled Samir

Head of Department: Associate prof. Khaled Samir

Date of Approval: 4/6/2017



Annual Course Report: Quality Assurances and Engineering Reliability

A. Basic Information

Program Title	Chemical Engineering Program
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	ENG 415
Level / Semester	5 th level / 2 nd Semester
Specialization	Major
Authorization date of course report	3/7/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	2 hours / week	2 hours / week	0

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		47	100%
Students completing the course		46	97.9%
Results	Passed	44	93.6%
	Failed	2	4.3%
Grading of successful students	Excellent	28	59.6%
	Very Good	7	14.9%
	Good	4	8.6%
	Pass	5	10.6%

2. Course Teaching:

No.	Topics actually taught	No. of hours			Lecturer
		Lectures	Tutorial	Practical	
1	The meaning of standardization and its methods	2	2	0	Dr.Sameh Abdelhameed
2	Define of STM, CAS, ISO, GMP, quality control and quality assurance.	2	2	0	
3	Gases applications according to standard	4	4	0	
4	Liquids applications according to standard	2	2	0	



5	Materials applications according to standard	4	4	0
6	Tools , pipe lines and their applications according to standard	4	4	0
7	Instruments and reactors and their applications according to standard	2	2	0
8	Methods of quality control	4	4	0
9	Reliability on product quality.	4	4	0
Total hours		42	28	0

- 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 Method	Choice
1	Lectures	√
2	Discussion Sessions	√
3	Information Collection from Different Sources	√
4	Practical	×
5	Research Assignment	√
6	Field Visits	×
7	Case Studies	×
8	Smart Sessions	×
9	...	×

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	20%
2	Oral Examination	0%
3	Practical Examination	0%
4	Semester work	20%
5	Other types of assessment	0%
6	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	×
11	Wireless Internet	√
12	...	×



4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	71.47%

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	Clarity of course aims is partially achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved

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

No.	Suggestions
1	Using online course material.

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some of scientific reference In the library of the institute	Add more scientific reference In the electronic library of the institute	2017-2018	Institute management

Course Coordinator: Dr.Sameh Abdelhameed

Head of Department: Ass. Prof. / Khaled Samir

Date of Approval: 7/2017



Annual Course Report: Electroplating

A. Basic Information

Program Title	Chemical engineering Program
Department offering the Program	Chemical engineering Department
Department Responsible for the Course	Chemical engineering Department
Course Code	CHE 511
Level / Semester	5 th level/ 1 st Semester
Specialization	Major
Authorization date of course report	1/2/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	-
Lecturers Number:	2

Teaching Hours	Lectures	Tutorial	Practical
	2 hours / week	2 hours / week	0

B. Specialized information:

1. Statistics

Subject	No.	Percentage	
Students attending the course	42	100%	
Students completing the course	42	100%	
Results	Passed	41	97.7%
	Failed	1	2.3%
Grading of successful students	Excellent	36	87.8%
	Very Good	2	4.9%
	Good	0	0%
	Pass	3	7.3%

2. Course Teaching:

No.	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Electrochemistry	4	4	0	Dr . Yasser Reda
2	Electrochemical cells	6	6	0	
3	Surface preparation	6	6	0	
4	throwing power	2	2	0	
5	Electrochemical baths	4	4	0	
6	Factors affecting electroplating	4	4	0	
7	Temperature - bath concentration	2	2	0	
Total		28	28	0	

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



No.	Teaching Method	Choice
1	Lectures	√
2	Discussion Sessions	√
3	Information Collection from Different Sources	√
4	Research Assignment	√
5	Tutorial	√

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	20%
2	Practical Examination	0%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	65.77%

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	Clarity of course aims is partially achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved



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

No.	Suggestions
1	Using online course material.
2	Making practical training on plating cell

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Add more new technique	Research for the new technique	2017-2018	Dr Yasser Reda

Course Coordinator: Dr Yasser Reda

Head of Department: Associate prof. Khaled Samir

Date of Approval: 2/2017



Annual Course Report: Industrial Safety

A. Basic Information

Program Title	Chemical Engineering Program
Department offering the Program	Chemical Engineering Department
Department Responsible for the Course	Chemical Engineering Department
Course Code	CHE 520
Level / Semester	5 th level/ 2 nd Semester
Specialization	Major
Authorization date of course report	24/6/2017
Exam Committee Selection Rule	Commissioning of the Institute of Management
External Revision of Examination	--
Lecturers Number:	1

Teaching Hours	Lectures	Tutorial	Practical
	2 hours / week	2 hours / week	0

B. Specialized information:

1. Statistics

Subject		No.	Percentage
Students attending the course		45	100%
Students completing the course		44	98%
Results	Passed	43	95.55%
	Failed	1	2.2%
Grading of successful students	Excellent	26	55%
	Very Good	6	15.5%
	Good	7	16.1%
	Pass	1	2.2%

2. Course Teaching:

No.	Topics actually taught	No. of hours			Lecturer
		Lecture	Tutorial	Practical	
1	Introduction in safety	4	4	0	Dr. Hend Gadow
2	preventing emergencies in the process industry	4	4	0	
3	Human error	4	4	0	
4	Identification and assessment of hazards, Fires and explosions	6	6	0	
5	Hazard of plant modification and case studies	6	6	0	
6	miscellaneous topics to be covered by invited lecturers	4	4	0	
Total		28	28	0	



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

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

- Student Assessment:

No.	Assessment Method	Weights
1	Mid Term Examination	20%
2	Practical Examination	0%
3	Semester work	20%
4	Final Term Examination	60%
Total		100%

3. Facilities Required for Teaching and Learning:

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

4- Administrative Constraints:

No.	Constraints
1	Finance
2	Equipment

5- Student Evaluation Result of the Course:

No.	Evaluation Result
1	74.09%

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	Clarity of course aims is not achieved
2	The ability of learning outcomes to be measured is not achieved
3	Appropriate learning outcomes targeted to the aims of the course is not achieved

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

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

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

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

10- Action plan for next academic year

No.	Areas of development	Description of development	Completion date	Person responsible
1	Increase some of scientific reference In the library of the institute	Add more scientific reference In the electronic library of the institute	2017-2018	Institute management
2	Visit some plants	Provide field visits	2017-2018	Institute management

Course Coordinator: Dr Hend Elsayed

Head of Department: Associate prof. Khaled Samir

Date of Approval: 24/6/2017