

- 1-2400-report Premaster-Microbiology.docx
- 2-2401- Advanced microbiology I.report 17-18.docx
- 3-2402-Immunology (I) PG course Report 2017 - 2018.docx
- 4-2403-Sterilization & microbiological QC &QA Report 2017 - 2018.docx
- 5-2404-Antimicrobial agent Report 2017 - 2018.docx
- 6-2405-Advanced-Microbiology-II-PG-course-Report-2017-2018.docx
- 7-2406-Immunology-II-course-Report-2017-2018.docx
- 8-2407--advanced-techniques. report.docx
- 9-2409--biotechnolgoy course-report.docx

## Report of Master Degree in Pharmaceutical Sciences (microbiology and immunology) Academic year 2017-2018

University\Academy: Beni-suef Faculty: Pharmacy

### A-Basic information

<b>1-Programme:</b>	Master Degree in Pharmaceutical Sciences (microbiology and immunology)-premaster year
<b>2-Department:</b>	Pharmaceutical Microbiology and immunology
<b>3-Number of academic years:</b>	1
<b>4-Number of courses: Number of credit hours</b>	6 compulsory + 4 elective courses (student chooses 2 of them)
<b>5-Principles of construction of examiners' committees:</b>	Only written exams
<b>6-System of external examiners:</b>	None

### B-Specialized information:

#### 7- statistics:

	Subject	No. of applicants	No. of succeeded students	No. of failure	Success ratio %	Detailed estimates of success			
						Excellent	Very good	Good	Pass
1	Advanced microbiology (I)	6	6	0	100	3	1	1	1
2	Immunology(I): Basic immunology	7	5	2	71.4	0	3	1	1
3	Sterillization and microbiological quality control and quality assurance	6	6	0	100	2	3	1	0
4	Antimicrobial agents and microbial resistance	6	5	1	83.33	3	2	0	0
5	Advanced microbiology(II)	7	7	0	100	1	6	0	0
6	Immunology (II): Immunologicals and immunological applications	7	7	0	100	4	3	0	0
7	Advanced techniques in microbiological research (elective)	7	7	0	100	1	6	0	0
8	Strategies for new antibiotics and antiviral agents (elective)								
9	Biotechnology (elective)	7	7	0	100	3	4	0	0
10	Special topics in microbialpathogenesis and emerging infectious diseases (elective)								

-Program enrollment orientation (determined by the numbers of students enrolled in the program during the last 3 years):

Constant

Increasing

decreasing

Academic year	Number of students of the first class
2015/2016	8
2016/2017	18
2017/2018	6
Enrollment% ratio of 2016/2017 to 2015/2016	225%
Enrollment %ratio of 2017/2018 to 2016/2017	33.3%

Course	Academic Standards			
	<b>A-</b> Knowledge and Understanding	<b>B-</b> Intellectual Skills	<b>C-</b> Professional and Practical Skills	<b>D--</b> General and Transferable Skills
2401	A1-A3-	B7	C1	D1-D8-D9
2402	A1-A4	B3-B5	C2	D1-D6-D9
2403	A1-A5	B2-B6-B9	C2-C3	D4-D7
2404	A1-A6	B1-B7-B8	C1-C2	D1-D2-D5
2405	A1-A3	B1-B7	C1-C3	D3-D8-D9
2406	A1-A6	B1-B8	C2-C3	D4-D7-D8
2407	A1-A2-A3	B1-B4-B7-B9	C1-C3	D1-D2-D5
2408	A1-A4-A6	B1-B4-B8	C2-C3	D2-D4-D6
2409	A1-A2-A5	B2-B5-B6	C1-C3	D2- D5-D6-D8
2410	A1-A6	B8-B9	C2-C3	D1-D2-D7-D9

-Benchmarking criteria for the program	<p>Australian Qualification Frame Work.</p> <ol style="list-style-type: none"> <li>1. Graduates of a Master Degree will have a body of knowledge that includes the understanding of recent developments in one or more disciplines</li> <li>2. Graduates of a Masters Degree will have a body of knowledge that includes the advanced knowledge of research principles and methods applicable to the field of work or learning</li> <li>3. Graduates of a Masters Degree will have cognitive skills to demonstrate mastery of theoretical knowledge and to reflect critically on theory and its application</li> <li>4. Graduates of a Masters Degree will have cognitive, technical and creative skills to investigate, analyse and synthesise complex</li> </ol>
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	<p>information, problems, concepts and theories and to apply established theories to different bodies of knowledge or practice</p> <p>5. Graduates of a Masters Degree will have cognitive, technical and creative skills to generate and evaluate complex ideas and concepts at an abstract level</p> <p>6. Graduates of a Masters Degree will have cognitive and technical skills to design, use and evaluate research and research methods</p> <p>7. Graduates of a Masters Degree will have technical and communication skills to design, evaluate, implement, analyse, theorise and disseminate research that makes a contribution to knowledge</p> <p>8. Graduates of a Masters Degree will demonstrate the application of knowledge and skills with creativity and initiative to new situations and/or for further learning</p> <p>9. Graduates of a Masters Degree will demonstrate the application of knowledge and skills with high level personal autonomy and accountability</p> <p>10. Graduates of a Masters Degree will demonstrate the application of knowledge and skills to plan and execute a substantial piece of research</p>
-Program Guide book	Available(√)                      Not available ( )
-Periodic review of the program	Available( )                      Not available (√)
	Annual ( )                      More than a year ( )
-The compatibility of the academic structure of the program with its ILOs	Compatible
-Administrative and regulatory constraints	.....
<b>9-Evaluation of students to measure the achieved ILOs</b>	
<b>-Evaluation Tools</b>	<b>- Dates</b>
-Questionnaire	March 2018
- Notes of the External Auditor:	Under evaluation
( If present )	

<b>10-Educational Potency:</b>	
-Ratio of faculty members to students	8:6 or 1:0.75
- The appropriate specialties of faculty members and the correct distribution of workloads among them according to the needs of the program:	Appropriate (√) To some extent ( ) Not appropriate, why? ( )
- Library:	Appropriate (√) To some extent ( ) Not appropriate, why? ( )
- Laboratories	Appropriate ( ) To some extent (√) Not appropriate, why? ( )
- Computer room	Appropriate ( ) To some extent (√) Not appropriate, why? ( )

<b>11. Quality Management and Development:</b>		
-Follow-up system for points of weakness:	Effective ( ) To some extent (√) Not effective ( )	
-Procedures for applying the rules and regulations of the College and the University:	Appropriate (√) To some extent ( ) Not appropriate, why? ( )	
-The effectiveness of the internal audit system in the development of the program:	Encouraged for establishment of course files	
-Feedback from external auditors regarding program outputs and measurement criteria:	Under evaluation	
<b>12-Program development suggestions:</b>		
Suggestions	Responsibilities	Date of achievement
Insertion of selective learning tools	Course team	done by Sept 2017

**Program coordinator: Dr. Amal Eissa**

**Signature:**

**Date:12/2018**



## Course Report

**University:** Beni-Suef

**College/ Institution:** Pharmacy

**Department:** Pharmaceutical Microbiology and Immunology

### A. Basic information:

1. Course title & code	Advanced Microbiology I (2401)
2. Programme(s) on which this course is given	Master Degree in Pharmaceutical Sciences (Microbiology and Immunology)
3. Year/ Level	2017-2018 / First semester
4. Credit hours	Lecture: 2 hour
5. Number of lecturers	2
6. Names of lecturers contributing to the delivery of the course	Dr. Walid Baker Dr. SalwaShaban
7. Name of external evaluator Date of approving	Under evaluation

### B. Professional information

1. Statistics:		
▪ Number of students attending the course	6	
▪ Number completing the course	No.: 6(100%)	
▪ Exam result	No. of students passed: 6(100% ) No. of students failed: 0(0%)	
▪ Grading percentage of successful students	Excellent: 3 (50 %) Very good: 1 (16.67 %) Good: 1 (16.67 %) Fair: 1 (16.67 %)	
2. Course teaching:		
Topics actually taught	No. of hours	Lecturer
<b>Microbial characteristics:</b> Eukaryotic microorganisms: fungi, protozoa, single-cell algae, viruses and virus-like particles.	2	Dr. Walid Baker

<b>Microbial characteristics:</b> Prokaryotic microorganisms: Bacteria (classification, morphology, arrangement, staining properties, gross and fine structure)	2	Dr. Walid Baker
<b>Bacterial metabolism:</b> Definition, Carbon, energy, nitrogen, phosphorus, sulfur, minerals and trace elements sources.	2	Dr. Walid Baker
<b>Environmental factors affecting microbes.</b>	2	Dr. Walid Baker
<b>Bacterial growth:</b> Generation time, Exponential time, Growth curve, Measurement of bacterial growth	2	Dr. Walid Baker
<b>Control of microbial growth:</b> Inhibition of microbial growth, Control methods, Kinetics, Factors affecting the microbial death by chemical agents.	2	Dr. Walid Baker
<b>Viruses:</b> Morphology, Life cycle, Multiplication, Virus-like particles	2	Dr. SalwaShaban
<b>Introduction and Basic definitions and information about genetics:</b> Chemical composition of the genetic material, DNA replication and transcription. Translation of information on m-RNA, Genetic code	2	Dr. SalwaShaban
<b>Regulation of gene expression:</b> Structural and functional genes	2	Dr. SalwaShaban
<b>Microbial variation and mutations</b> and their mechanisms,  DNA modifying enzymes.	2	Dr. SalwaShaban
<b>Methods of genetic transfer between bacteria.</b> , Plasmids – Their types and functions – their contribution to gene transfer., Gene mapping and jumping genetic elements (Transposons).	2	Dr. SalwaShaban
<b>Gene manipulation techniques</b> ( PCR , introduction to cloning)	2	Dr. SalwaShaban
Topics taught as a percentage of	< 60% ( ) 60-84% ( )	



the content specified	> 85 % (√ )
Exam coverage of taught topics	<60% ( ) 60-84% ( ) > 85 % (√ )
Teaching and learning strategies	( √ ) Lecture ( ) Practical training/Laboratory ( ) Case study ( ) Class activities ..... .....
Student assessment	( √ ) Written examination ( ) Oral examination ( ) Practical/laboratory work
<b>3. Facilities and teaching materials:</b>	
▪ Scientific references	( ) Totally adequate ( √ ) Adequate to some extent ( ) Inadequate
▪ Media	( ) Totally adequate ( √ ) Adequate to some extent ( ) Inadequate
▪ Materials	( ) Totally adequate ( √ ) Adequate to some extent ( ) Inadequate
4. Administrative constraints	-----
5. Student evaluation of the course	Almost very good
6. Course enhancement suggestions	None
7. Comments from external evaluator(s):(if present)	NA
8. Executed actions (identified in the previous year's action plan):	Insertion of selective learning tools
9. Non-executed actions (state	

why?)	NA		
10. Action plan for the coming academic year 2018 – 2019			
Action required	Description	Completion Date	Person Responsible
-	-	-	-

Course coordinator:**Dr. Walid Bakeer**

Signature:**Dr. WalidBakeer**

Date:12/2018

وحدة ضمان الجودة - كلية الصيدلة - جامعة بني سويف

## Course Report

**University:** Beni-Suef

**College/ Institution:** Pharmacy

**Department:** Pharmaceutical Microbiology and Immunology

### A. Basic information:

1. Course title & code	Immunology I (2402)
2. Programme(s) on which this course is given	Master Degree in Pharmaceutical Sciences (Microbiology and Immunology)
3. Year/ Level	2017-2018 /First semester
4. Credit hours	Lecture: 1 hour
5. Number of lecturers	2
6. Names of lecturers contributing to the delivery of the course	Dr. Ahmed Khairalla Dr. Ahmed Osama
7. Name of external evaluator Date of approving	Under evaluation

### B. Professional information

1. Statistics:		
▪ Number of students attending the course	7	
▪ Number completing the course	No.: 7(100%)	
▪ Exam result	No. of students passed: 5(71.43% ) No. of students failed: 2(28.57%)	
▪ Grading percentage of successful students	Excellent: 0 (0 %) Very good: 3 (42.86 %) Good: 1 (14.29 %) Fair: 1 (14.29 %)	
2. Course teaching:		
Topics actually taught	No. of hours	Lecturer
Introduction to immunity	1	Dr. Ahmed Khairalla
Natural and acquired immunity	1	Dr. Ahmed Khairalla

Cellular basis of the immune response, origin of immune cells, effector and regulatory functions of T- & B- cells	1	Dr. Ahmed Khairalla
Antigens and antibody: structure & classes	1	Dr. Ahmed Khairalla
The complement system	1	Dr. Ahmed Khairalla
Clusters of differentiation and cytokines	1	Dr. Ahmed Khairalla
Major histocompatibility complex	1	Dr. Ahmed Osama
Humoral-mediated immunity	1	Dr. Ahmed Osama
Cellular-mediated immunity	1	Dr. Ahmed Osama
Primary and secondary immune response	1	Dr. Ahmed Osama
Immune tolerance	1	Dr. Ahmed Osama
Graft rejection	1	Dr. Ahmed Osama
Topics taught as a percentage of the content specified	< 60% ( ) 60-84% ( ) > 85 % (√ )	
Exam coverage of taught topics	<60% ( ) 60-84% ( ) > 85 % (√ )	
Teaching and learning strategies	( √ ) Lecture ( ) Practical training/Laboratory ( ) Case study ( ) Class activities ..... .....	
Student assessment	( √ ) Written examination ( ) Oral examination ( ) Practical/laboratory work	
<b>3. Facilities and teaching materials:</b>		
▪ Scientific references	( ) Totally adequate ( √ ) Adequate to some extent	

	( ) Inadequate		
▪ Media	( ) Totally adequate ( ✓ ) Adequate to some extent ( ) Inadequate		
▪ Materials	( ) Totally adequate ( ✓ ) Adequate to some extent ( ) Inadequate		
4. Administrative constraints	-----		
5. Student evaluation of the course	Almost very good		
6. Course enhancement suggestions	None		
7. Comments from external evaluator(s):(if present)	NA		
8. Executed actions (identified in the previous year's action plan):	Insertion of selective learning tools		
9. Non-executed actions (state why?)	NA		
10. Action plan for the coming academic year 2018 – 2019			
Action required	Description	Completion Date	Person Responsible
-	-	-	-

Course coordinator:**Dr. Ahmed Khairalla**

Signature:**Dr. Ahmed Khairalla**

Date:12/2018

## Course Report

**University:** Beni-Suef

**College/ Institution:** Pharmacy

**Department:** Pharmaceutical Microbiology and Immunology

### A. Basic information:

1. Course title & code	Sterilization and Microbiological Quality Control and Quality Assurance (2403)
2. Programme(s) on which this course is given	Master Degree in Pharmaceutical Sciences (Microbiology and Immunology)
3. Year/ Level	2017-2018 / First semester
4. Credit hours	Lecture: 2 hour
5. Number of lecturers	2
6. Names of lecturers contributing to the delivery of the course	Dr. SamehMohammdi Dr. Ahmed Farag
7.Name of external evaluator Date of approving	Under evaluation

### B. Professional information

1. Statistics:		
▪ Number of students attending the course	6	
▪ Number completing the course	No.: 6(100%)	
▪ Exam result	No. of students passed: 6(100 % ) No. of students failed: 0(0 %)	
▪ Grading percentage of successful students	Excellent: 2 (33.33 %) Very good: 3 (50 %) Good: 1 (16.67 %) Fair: 0 (0 %)	
2. Course teaching:		
Topics actually taught	No. of hours	Lecturer
Quality control, quality assurance and good laboratory practice of sterile product	2	Dr. Ahmed Farag

Routes of microbial contamination of pharmaceutical product and their limitation	2	Dr. Ahmed Farag
Hazards associated with microbial contamination of pharmaceutical products.	2	Dr. Ahmed Farag
Types of sterile product	2	Dr. Ahmed Farag
Kinetics of Microbial Death	2	Dr. Ahmed Farag
Dry heat sterilization	2	Dr. Ahmed Farag
Moist heat of sterilization	2	Dr. SamehMohammdi
Radiation sterilization	2	Dr. SamehMohammdi
Chemical sterilization	2	Dr. SamehMohammdi
Sterilization by filtration	2	Dr. SamehMohammdi
New method of sterilization (plasma, ultrasonic and others)	2	Dr. SamehMohammdi
Sterility testing	2	Dr. SamehMohammdi
Topics taught as a percentage of the content specified	< 60% ( ) 60-84% ( ) > 85 % (√ )	
Exam coverage of taught topics	<60% ( ) 60-84% ( ) > 85 % (√ )	
Teaching and learning strategies	( √ ) Lecture ( ) Practical training/Laboratory ( ) Case study ( ) Class activities ..... .....	
Student assessment	( √ ) Written examination ( ) Oral examination ( ) Practical/laboratory work	
<b>3. Facilities and teaching materials:</b>		
▪ Scientific references	( ) Totally adequate	

	( <input checked="" type="checkbox"/> )Adequate to some extent ( <input type="checkbox"/> )Inadequate		
▪ Media	( <input type="checkbox"/> )Totally adequate ( <input checked="" type="checkbox"/> ) Adequate to some extent ( <input type="checkbox"/> ) Inadequate		
▪ Materials	( <input type="checkbox"/> )Totally adequate ( <input checked="" type="checkbox"/> ) Adequate to some extent ( <input type="checkbox"/> )Inadequate		
4. Administrative constraints	-----		
5. Student evaluation of the course	Almost very good		
6. Course enhancement suggestions	None		
7. Comments from external evaluator(s):(if present)	NA		
8. Executed actions (identified in the previous year's action plan):	Insertion of selective learning tools		
9. Non-executed actions (state why?)	NA		
10. Action plan for the coming academic year 2018 – 2019			
Action required	Description	Completion Date	Person Responsible
-	-	-	-

Course coordinator:**Dr. Ahmed Farag**

Signature:**Dr. Ahmed Farag**

Date:12/2018



## Course Report

**University:** Beni-Suef

**College/ Institution:** Pharmacy

**Department:** Pharmaceutical Microbiology and Immunology

### A. Basic information:

1. Course title & code	Antimicrobial Agents and Microbial Resistances (2404)
2. Programme(s) on which this course is given	Master Degree in Pharmaceutical Sciences (Microbiology and Immunology)
3. Year/ Level	2017-2018 /First semester
4. Credit hours	Lecture: 2 hour
5. Number of lecturers	2
6. Names of lecturers contributing to the delivery of the course	Dr. TarekDishisha Dr. Ahmed Osama
7.Name of external evaluator Date of approving	Under evaluation

### B. Professional information

1. Statistics:		
▪ Number of students attending the course	6	
▪ Number completing the course	No.: 6(100%)	
▪ Exam result	No. of students passed: 5(83.33 % ) No. of students failed: 1(16.67%)	
▪ Grading percentage of successful students	Excellent: 3 (50 %) Very good: 2 (33.33 %) Good: 0 (0 %) Fair: 0 (0 %)	
2. Course teaching:		
Topics actually taught	No. of hours	Lecturer
Introduction, Classification of antibiotics	2	Dr. Ahmed Osama

Inhibitors of cell wall biosynthesis	4	Dr. Ahmed Osama
Inhibitors of protein synthesis	2	Dr. Ahmed Osama
Antibiotics acting on cell membrane	2	Dr. Ahmed Osama
Inhibitors of nucleic acid synthesis	2	Dr. Ahmed Osama
Inhibitors of folic acid synthesis	2	Dr. TarekDishisha
Antitubercular drugs	2	Dr. TarekDishisha
Antiviral drugs	2	Dr. TarekDishisha
Antifungal agents	2	Dr. TarekDishisha
Bacterial resistance to antibiotics	2	Dr. TarekDishisha
Antibiotic policies	2	Dr. TarekDishisha
Topics taught as a percentage of the content specified	<input type="checkbox"/> < 60% <input type="checkbox"/> 60-84% <input checked="" type="checkbox"/> > 85 %	
Exam coverage of taught topics	<input type="checkbox"/> <60% <input type="checkbox"/> 60-84% <input checked="" type="checkbox"/> > 85 %	
Teaching and learning strategies	<input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Practical training/Laboratory <input type="checkbox"/> Case study <input type="checkbox"/> Class activities ..... .....	
Student assessment	<input checked="" type="checkbox"/> Written examination <input type="checkbox"/> Oral examination <input type="checkbox"/> Practical/laboratory work	
<b>3. Facilities and teaching materials:</b>		
▪ Scientific references	<input type="checkbox"/> Totally adequate <input checked="" type="checkbox"/> Adequate to some extent <input type="checkbox"/> Inadequate	
▪ Media	<input type="checkbox"/> Totally adequate	

	( √ ) Adequate to some extent ( ) Inadequate		
▪ Materials	( ) Totally adequate ( √ ) Adequate to some extent ( ) Inadequate		
4. Administrative constraints	-----		
5. Student evaluation of the course	Almost very good		
6. Course enhancement suggestions	None		
7. Comments from external evaluator(s):(if present)	NA		
8. Executed actions (identified in the previous year's action plan):	Insertion of selective learning tools		
9. Non-executed actions (state why?)	NA		
10. Action plan for the coming academic year 2018 – 2019			
Action required	Description	Completion Date	Person Responsible
-	-	-	-

Course coordinator:**Dr. Ahmed Osama**

Signature:**Dr. Ahmed Osama**

Date:12/2018

## Course Report

**University:** Beni-Suef

**College/ Institution:** Pharmacy

**Department:** Pharmaceutical Microbiology and Immunology

### A. Basic information:

1. Course title & code	Advanced MicrobiologyII (2405)
2. Programme(s) on which this course is given	Master Degree in Pharmaceutical Sciences (Microbiology and Immunology)
3. Year/ Level	2017-2018 / Second semester
4. Credit hours	Lecture: 1 hour
5. Number of lecturers	2
6. Names of lecturers contributing to the delivery of the course	Dr. Ahmed Osama Dr. Ahmed Khairalla
7. Name of external evaluator Date of approving	Under evaluation

### B. Professional information

1. Statistics:		
▪ Number of students attending the course	8	
▪ Number completing the course	No.: 7(87.5%)	
▪ Exam result	No. of students passed: 7(100% ) No. of students failed: 0(0%)	
▪ Grading percentage of successful students	Excellent: 1 (14.28 %) Very good: 6 (85.71 %) Good: 0 (0 %) Fair: 0 (0 %)	
2. Course teaching:		
Topics actually taught	No. of hours	Lecturer
Introduction on Gene manipulation techniques	1	Dr. Ahmed Khairalla
Gene knockout	1	Dr. Ahmed Khairalla

Gene silencing	1	Dr. Ahmed Khairalla
Site directed mutagenesis	1	Dr. Ahmed Khairalla
Error prone PCR	1	Dr. Ahmed Khairalla
Transformation techniques	1	Dr. Ahmed Khairalla
Homologous expression	1	Dr. Ahmed Osama
Heterologous expression	1	Dr. Ahmed Osama
Type of expression vectors	1	Dr. Ahmed Osama
Different cloning techniques	1	Dr. Ahmed Osama
Microbial Biotechnology applications; Industrial Microorganisms	1	Dr. Ahmed Osama
Other applications in therapy, transgenic plants and animals	1	Dr. Ahmed Osama
Topics taught as a percentage of the content specified	< 60% ( ) 60-84% ( ) > 85 % (√ )	
Exam coverage of taught topics	<60% ( ) 60-84% ( ) > 85 % (√ )	
Teaching and learning strategies	(√ ) Lecture ( ) Practical training/Laboratory ( ) Case study ( ) Class activities ..... .....	
Student assessment	(√ ) Written examination ( ) Oral examination ( ) Practical/laboratory work	
<b>3. Facilities and teaching materials:</b>		
▪ Scientific references	( ) Totally adequate	

	( <input checked="" type="checkbox"/> )Adequate to some extent ( <input type="checkbox"/> )Inadequate		
▪ Media	( <input type="checkbox"/> )Totally adequate ( <input checked="" type="checkbox"/> ) Adequate to some extent ( <input type="checkbox"/> ) Inadequate		
▪ Materials	( <input type="checkbox"/> )Totally adequate ( <input checked="" type="checkbox"/> ) Adequate to some extent ( <input type="checkbox"/> )Inadequate		
4. Administrative constraints	-----		
5. Student evaluation of the course	Almost very good		
6. Course enhancement suggestions	None		
7. Comments from external evaluator(s):(if present)	NA		
8. Executed actions (identified in the previous year's action plan):	Insertion of selective learning tools		
9. Non-executed actions (state why?)	NA		
10. Action plan for the coming academic year 2018 – 2019			
Action required	Description	Completion Date	Person Responsible
-	-	-	-

Course coordinator:Dr. Ahmed Osama

Signature:Dr. Ahmed Osama

Date:

## Course Report

**University:** Beni-Suef

**College/ Institution:** Pharmacy

**Department:** Pharmaceutical Microbiology and Immunology

### A. Basic information:

1. Course title & code	Immunology II (2406)
2. Programme(s) on which this course is given	Master Degree in Pharmaceutical Sciences (Microbiology and Immunology)
3. Year/ Level	2017-2018 //Post Graduate students - Second semester
4. Credit hours	Lecture: 2 hours (2)
5. Number of lecturers	2
6. Names of lecturers contributing to the delivery of the course	Dr. Ahmed Farag Dr. Amal Eissa
7. Name of external evaluator Date of approving	Under evaluation

### B. Professional information

1. Statistics:		
▪ Number of students attending the course	8	
▪ Number completing the course	No.: 7 (87.5%)	
▪ Exam result	No. of students passed: 7(100% )	
▪ Grading percentage of successful students	Excellent: 4 (57.14 %) Very good: 3 (42.85 %) Good: 0 (0 %) Fair: 0 (0 %)	
2. Course teaching:		
Topics actually taught	No. of hours	Lecturer
Antibody genetics: isotypes, allotypes, idiotypes	2	Dr. Ahmed Farag
Immunoglobulin genes and generation of immunoglobulin diversity. (GENETIC BASIS OF ANTIBODY DIVERSITY)	2	Dr. Ahmed Farag

Production of antibodies	2	Dr. Ahmed Farag
TOLERANCE	2	Dr. Ahmed Farag
Autoimmune diseases	2	Dr. Ahmed Farag
Immunological disorders	4	Dr. Ahmed Farag
Grafts	2	Dr. AmalEissa
Cancer immunology	2	Dr. AmalEissa
Immunotherapeutics	4	Dr. AmalEissa
Quality control of immunological products	2	Dr. AmalEissa
Topics taught as a percentage of the content specified	< 60% ( ) 60-84% ( ) > 85 % (√ )	
Exam coverage of taught topics	<60% ( ) 60-84% ( ) > 85 % (√ )	
Teaching and learning strategies	(√ ) Lecture ( ) Practical training/Laboratory ( ) Case study ( ) Class activities ..... .....	
Student assessment	(√ ) Written examination ( ) Oral examination ( ) Practical/laboratory work	
<b>3. Facilities and teaching materials:</b>		
▪ Scientific references	( ) Totally adequate (√ ) Adequate to some extent ( ) Inadequate	
▪ Media	( ) Totally adequate (√ ) Adequate to some extent ( ) Inadequate	
▪ Materials	( ) Totally adequate (√ ) Adequate to some extent	



	( ) Inadequate		
4. Administrative constraints	-----		
5. Student evaluation of the course	Almost very good but Some comments regarding applications of the studied topics on reality.		
6. Course enhancement suggestions	To be more updated with recent scientific knowledge.		
7. Comments from external evaluator(s):(if present)	NA		
8. Executed actions (identified in the previous year's action plan):	Insertion of selective learning tools		
9. Non-executed actions (state why?)	NA		
10. Action plan for the coming academic year 2018 – 2019			
Action required	Description	Completion Date	Person Responsible
Course content need to be updated	Course note need to be rewritten and updated, to include more applications of the studied topics on actual pharmaceutical and medical situations.	The beginning of the first semester 2018-2019	Staff members

Course coordinator:Dr. Ahmed Farag

Signature:Dr. Ahmed Farag

Date:

## Course Report

**University:** Beni-Suef

**College/ Institution:** Pharmacy

**Department:** Pharmaceutical Microbiology and Immunology

### A. Basic information:

1. Course title & code	Advanced techniques in microbiological research
2. Programme(s) on which this course is given	Master Degree in Pharmaceutical Sciences (microbiology and immunology)
3. Year/ Level	Postgraduate Program
4. Credit hours	( 1 ) Lecture ( zero ) Practical
5. Number of lecturers	2
6. Names of lecturers contributing to the delivery of the course	Dr. Yasser Gaber (YG) & Dr. Eman El-Gebaly (EG)
7. Name of external evaluator Date of approving	Under evaluation

### B. Professional information

1. Statistics:		
▪ Number of students attending the course	8	
▪ Number completing the course	No.: 7 (87.5%)	
▪ Exam result	No. of students passed: 7(100% )	
▪ Grading percentage of successful students	Excellent:1 (14.28%) Very good:6 (85.78%) Good:0 (0%) Pass:0 (0%)	
2. Course teaching:		
Topics actually taught	No. of hours	Lecturer
DNA Amplification technology I	1	Dr. Yasser Gaber
DNA Amplification technology II	1	Dr. Yasser Gaber
Microbial typing I	1	Dr. Yasser Gaber
Microbial typing II	1	Dr. Yasser Gaber

Forensic DNA technology	1	Dr. Yasser Gaber
Structural biology (X-ray)	1	Dr. Yasser Gaber
Protien databases	1	Dr.Eman El-Gebaly
Structural bioinformatics	1	Dr.Eman El-Gebaly
Homology modeling: concept and practice	1	Dr.Eman El-Gebaly
Computer training & reporting task	1	Dr.Eman El-Gebaly
Report follow up	1	Dr.Eman El-Gebaly
CRISPR technology	1	Dr.Eman El-Gebaly
Topics taught as a percentage of the content specified	< 60% ( ) 60-84% ( ) > 85 % ( )	
Exam coverage of taught topics	<60% ( ) 60-84% ( ) > 85 % <input checked="" type="checkbox"/>	
Teaching and learning strategies	( <input checked="" type="checkbox"/> ) Lecture ( ) Practical training/Laboratory ( ) Case study ( ) Class activities Class activities... Solving problems , Groups of discussion .....	
Student assessment	( <input checked="" type="checkbox"/> ) Written examination ( ) Oral examination ( ) Practical/laboratory work ( ) Other assignments/class work	
<b>3. Facilities and teaching materials:</b>		
▪ Scientific references	( <input checked="" type="checkbox"/> ) Totally adequate ( ) Adequate to some extent ( ) Inadequate	
▪ Media	( ) Totally adequate ( <input checked="" type="checkbox"/> ) Adequate to some extent ( ) Inadequate	
▪ Materials	( ) Totally adequate ( <input checked="" type="checkbox"/> ) Adequate to some extent ( ) Inadequate	

4. Administrative constraints			
5. Student evaluation of the course			
6. Course enhancement suggestions	The course will continuously be updated to include recent discoveries related to microbiological research , for example the topics of Nobel prize announced every year in October in Chemistry, physiology and medicine are good source for course updating.		
7. Comments from external evaluator(s):(if present)			
8. Executed actions (identified in the previous year's action plan):			
9. Non-executed actions (state why?)			
<b>10. Action plan for the coming academic year 2018-2019</b>			
<b>Action required</b>	<b>Description</b>	<b>Completion Date</b>	<b>Person Responsible</b>
Update the lecture topics	Described in course enhancement (above)	2019	Dr Yasser gaber

coordinator: Dr. Yasser Gaber

Signature:

Date:

## Course Report

**University:** Beni-Suef

**College/ Institution:** Pharmacy

**Department:** Pharmaceutical Microbiology and Immunology

### A. Basic information:

1. Course title & code	Biotechnology
2. Programme(s) on which this course is given	Master Degree in Pharmaceutical Sciences (microbiology and immunology)
3. Year/ Level	2017-2018 Postgraduate Program
4. Credit hours	( 1 ) Lecture ( zero ) Practical
5. Number of lecturers	2
6. Names of lecturers contributing to the delivery of the course	Dr. Tarek Dishisha (TD) Dr. Ahmed Farag
7. Name of external evaluator Date of approving	Under evaluation

### B. Professional information

1. Statistics:		
▪ Number of students attending the course	8	
▪ Number completing the course	No.: 7 (87.5%)	
▪ Exam result	No. of students passed: 7(100% )	
▪ Grading percentage of successful students	Excellent:3 (42.85%) Very good:4 (57.14%) Good:0 (0%) Pass:0 (0%)	
2. Course teaching:		
Topics actually taught	No. of hours	Lecturer
- Introduction and historical background - Microbial growth and analysis	1	Dr. Tarek Dishisha
- Cell composition, growth media - Upstream processing	1	Dr. Tarek Dishisha

- Fermentation kinetics, - 1 <sup>st</sup> Assignment (Calculation)	1	Dr. Tarek Dishisha
- Downstream processing, - 2 <sup>nd</sup> assignment (PBL)	1	Dr. Tarek Dishisha
- Environmental Biotechnology - 3 <sup>rd</sup> assignment (Presentation)	1	Dr. Tarek Dishisha
- Metabolic pathways (4 <sup>th</sup> assignment, CS)	1	Dr. Tarek Dishisha
- Enzymes- Biocatalysis	1	Dr. Ahmed Farag
- Kinetics of the biocatalytic/immobilized - 5 <sup>th</sup> Assignment (Calculations)	1	Dr. Ahmed Farag
- Bioanalytical Chemistry & biosensors - 6 <sup>th</sup> Assignment (Review article)	1	Dr. Ahmed Farag
- Bioinformatics,	1	Dr. Ahmed Farag
- Structural Bioinformatics, -	1	Dr. Ahmed Farag
- Entrepreneurship in Biotechnology - Assignment (Business plan)	1	Dr. Ahmed Farag
Topics taught as a percentage of the content specified	< 60% ( ) 60-84% ( ) > 85 % ( )	
Exam coverage of taught topics	<60% ( ) 60-84% ( ) > 85 % <input checked="" type="checkbox"/> )	
Teaching and learning strategies	( <input checked="" type="checkbox"/> ) Lecture ( ) Practical training/Laboratory ( ) Case study ( ) Class activities <u>Class activities...</u> Solving problems , Groups of discussion .....	
Student assessment	( <input checked="" type="checkbox"/> ) Written examination ( ) Oral examination	

	( ) Practical/laboratory work ( <input checked="" type="checkbox"/> ) Other assignments/class work		
<b>3. Facilities and teaching materials:</b>			
▪ Scientific references	( <input checked="" type="checkbox"/> ) Totally adequate ( ) Adequate to some extent ( ) Inadequate		
▪ Media	( ) Totally adequate ( <input checked="" type="checkbox"/> ) Adequate to some extent ( ) Inadequate		
▪ Materials	( ) Totally adequate ( <input checked="" type="checkbox"/> ) Adequate to some extent ( ) Inadequate		
4. Administrative constraints			
5. Student evaluation of the course			
6. Course enhancement suggestions			
7. Comments from external evaluator(s):(if present)	Under evaluation		
8. Executed actions (identified in the previous year's action plan):	The students are asked to do more activities related to scientific data presentation and reporting scientific results		
9. Non-executed actions (state why?)			
<b>10. Action plan for the coming academic year 2018 – 2019</b>			
<b>Action required</b>	<b>Description</b>	<b>Completion Date</b>	<b>Person Responsible</b>

Course coordinator: Dr. Tarek Dishisha

Signature:

Date: