



Course title: Bacteriology Course code :BOT222 Year /semester:14 36 – 1437 H / 2 <sup>nd</sup> semester

#### Consistency of outcomes of program and core course

Domains		A	A			В		C			D			]	E		
POCs	1.1	1.2	1.3	1.4	2.1	2.2	2.3	2.4	3.1	3.2	3.3	3.4	4.1	4.2	4.3	5.1	5.2
COLCs																	

<sup>\*</sup> POCs= program outcomes

<sup>\*</sup>COLCs- course learning outcomes

Midterm	Midterm		Acti	vities					
1	2	Homework	Posoarch	Class	Lab.	<u>Total</u>	Final	Final	
MD 1	MD 2	H.W	RES.	activities	Assessment	(MD 1 <u>,</u>	practical	Theoretical	Total
IVID I	IVID Z	11.00	NLJ.	C.A	Lab. Ass	MD 2 &	exam	exam	Degree
10	10		5	-	5	activities_	P.F	T.F	
						1			
MD	/20	Activities+ Lab Ass. /10			)	30	20	50	100

Instructor: Dr./ Rabab Mohamed Head of program / Dept. Mona Makkia

		Course	e learni	ng outc	omes			
Tools	1.1.1	1.2.1	2.1.1	2.2.2	3.4.1	4.1.1	5.1.1	Total
MD1		5		5	0	0	0	10%
MD2	4	5		5	0	0	0	10%
HW		1*	1*	0	0	0	0	2%
Res.	0	0	0	0	1	2**	0	3%
C. A	0	0	0	0	0	0	0	-
Lab Ass.	0	0	0	0	0	0	5 ***	5%
P.F Exam	0	0	0	0	0	0	20	20%
T.F Exam	10	10	15	15	0	0	0	50%
Total	20	11	26	15	1	2	25	100%

<sup>\*</sup> Received through D2L gate \*\* Written Communication \*\*\* Lab. reports and Microscopic Examination

Domains	POCs	COLCs
A1	Collect integrated comprehensive knowledge of the basic principles and theories related to biological science and theories of education which are necessary for professional preparation.	Familiar with the basics of microbiology and science branching from it.
A2	Find the relationship between the scientific biological theories and other scientific and professional fields related to biological science.	Describes the bacterial cell structure and organelles
B1	Investigate the information and analyze them to study phenomena related to Biological science and teaching problems that she face, then using it in proposing innovative solutions based on her theoretical and practical background to take appropriate decisions	Distinguish between and Moving bacteria
B2	Analyze the relationship between the construction and function at the molecular, cellular, organic and ecological levels with explanation of the molecular mechanisms, metabolism and gene expression	compare the different types of bacteria in terms of the look and usability of the different pigments group discussion Videos classroom participation
C4	Be responsible for self-learning and continuing personal and professional development, using the means of finding new information or analysis techniques to accomplish the tasks.	Deal with others and take responsibility skills Interact collective discussion and take responsibility for self-learning.
D1	Communicate verbally and in written ways by using appropriate display forms for different issues with different recipients.	Use modern techniques to search for the required references for work duties
E1	Mastered the use of tools and, laboratory devices in dissection and conduction of practical experiments	Apply different experiments related to the course and present short report

P.O	CLO		Mid Term (1) Exam		T.G				
1.1 1.2	1.1.1 1.2.1	Can be assessed by Exams: are).	- true or false ,short essays	with (mention – What is /	4				
2.1 2.2	2.1.1 2.2.1	•	high level thinking question to predict – how to interpre		6				
Ruk	orics	Unsatisfactory	Developing	Satisfactory					
9	%	(0-39%)	(40-69%)	(70-100%)	10%				
No. of	student	3	13	6					
P.O	CLO		Mid Term (2) Exam	_	T.G				
1.1 1.2	1.1.1 1.2.1	Can be assessed by Exams: What is / are).	true or false question shor	t essays with (mention –	6				
2.1 2.2	2.1.1 2.2.1	Long and short essays with how to evaluate – how to f	Can be assessed by Exams: MCQ ,fill in the space of high level thinking questions - Long and short essays with (why – explain – how to predict – how to interpret – how to evaluate – how to formulate – compare – differentiate – Analyze / how to enalyze – case study problems).						
Ruk	orics	Unsatisfactory Developing Satisfactory							
9	%	(0-39%)							
No. of s	tudents	2	9	11					
P.O	CLO		Final Practical Exam	_	T.G				
5.1	5.1.1	•	nrough identify microscopic n bacteria through different	•	20				
Rubrics	<u> </u>	Unsatisfactory	Developing	Satisfactory					
9	6	(0-39%)	(40-69%)	(70-100%)	20%				
No. of stu	dents	2	10	10					
P.O	CLO		Final Theoretical Exar	n	T.G				
1.1	1.1.1		MCQ – true or false question	on, Long and short essays	25				
2.1 2.2	2.1.1 2.2.1	with (list – mention – What is / are – numerate).  Can be assessed by Exams: MCQ, fill in the space of high level thinking questions - Long and short essays with (why – explain – how to predict – how to interpret – how to evaluate – how to formulate – compare – differentiate – Analyze / how to analyze –Classify.							
Ruk	rics	Unsatisfactory	Developing	Satisfactory					
	tudents	<b>(0-39%)</b> 4	(40-69%) 11	<b>(70-100%)</b> 7	50%				

P.O	CLO		Homework		T.G				
1.2	1.2.1	Describes the bacte	rial cell structure an	d organelles	1				
2.1 2.2	2.1.1 2.2.1	Distinguish between and compare the different ty the different pigments gr	pes of bacteria in terms o	f the look and usability of	1				
Rub	orics	Unsatisfactory	Developing	Satisfactory					
9	6	(0-39%) (40-69%) (70-100%)							
No. of s	tudents	22							
P.O	CLO		Research						
3.4	3.4.2	Work effectively in team during preparation of collective researches							
4.1	4.1.1	advanced technology in a	ation of research and pres good manner e oral and written commu		2				
Rub	orics	Unsatisfactory	Developing	Satisfactory					
9	6	(0-39%)	(40-69%)	(70-100%)	3%				
No. of s	tudents			22					
P.O	CLO		Lab assessment		T.G				
5.1	5.1.1	-	- Can be assessed by Exam through identify microscopic specimens of different bacteria , compare between bacteria through different stain and physiological						
Rub	orics	Unsatisfactory	Unsatisfactory Developing Satisfactory						
9	6	(0-39%)	(40-69%)	(70-100%)	5%				
No. of s	tudents	-		22					





Course title: Animal physiology I Course code: ZOO 313 Year /semester:1436 – 1437 H /2 nd semester

#### Consistency of outcomes of program and core course

Domains		A	1			F	3				C			D		I	Œ
POCs	1.1	1.2	1.3	1.4	2.1	2.2	2.3	2.4	3.1	3.2	3.3	3.4	4.1	4.2	4.3	5.1	5.2
COLCs																	

<sup>\*</sup> POCs= program outcomes

<sup>\*</sup>COLCs- course learning outcomes

Midtorm	Midtorm		Activities					
Midterm 1 MD 1	Midterm 2 MD 2	Homework H.W	Research RES.	Lab. Assessment Lab. Ass	Total (MD 1, MD 2 & activities	Final practical exam P.F	Final Theoretical exam T.F	Total Degree
					activities_			
MD	)/20	Activi	ties+ Lab As	ss. /10	30	20	50	100

Instructor: Prof./ Zeinab Abd Elmohdy

Head of program / Dept. Dr: Mona Makkia

		C	ourse le	arning o	outcomes	S		
Tools	1.1.1	1.2.1	2.2.1	2.3.1	3.2.1	4.2.1	5.1.1	Total
MD1	5		5		0	0	0	10%
MD2		5		5	0	0	0	10%
HW	2*	2*			0	0	0	4%
Res.	0	0	0	0	1	2**	0	3%
C. A	0	0	0	0	0	0	0	-
Lab Ass.	0	0	0	0	0	0	3 ***	3%
P.F Exam	0	0	0	0	0	0	20	20%
T.F Exam	10	7	25	8	0	0	0	50%
Total	17	14	30	13	1	2	23	100%

<sup>\*</sup> Received through D2L gate \*\* Written Communication \*\*\* Lab. reports and Microscopic Examination

Domains	POCs	COLCs
A1	Collect integrated comprehensive knowledge of the basic principles and theories related to biological science and theories of education which are necessary for professional preparation.	Recognize the structure of Digestive, Muscular, and Nervous Systems.
A2	Find the relationship between the scientific biological theories and other scientific and professional fields related to biological science.	Determine the function of Digestive, Muscular, and Nervous Systems.
B2	Analyze the relationship between the construction and function at the molecular, cellular, organic and ecological levels with explanation of the molecular mechanisms, metabolism and gene expression	Explain the mechanism of action of Digestive, Muscular, and Nervous Systems.
В3	Conclude the reasons for the relatively complex problems in biological science, using variable forms of information technologies and other sources.	Analyze the phenomena and problems related to the functions of Digestive, Muscular, and Nervous systems
C2	Exercise group's leadership in a variety of situations which require innovative responses	Participate effectively with colleagues in researches and presentations
D2	Use Appropriate information technology and communication in gathering information to interpret and implement it in teaching situations	Using advanced technology in collection and interpretation of data.
E1	Mastered the use of tools and, laboratory devices in dissection and conduction of practical experiments	Use properly laboratory devices and equipment in carrying out experiments of the course

P.O	CLO		Mid Term (1) Exam		T.G				
1.1	1.1.1	Can be assessed by Exams: What is / are – numerate).	MCQ - true or false ,short e	ssays with (list – mention –	5				
2.2	2.2.1	essays with (why – explain	MCQ of high level thinking q – how to predict – how to in re – differentiate – Analyze )	terpret – how to evaluate –	5				
Ruk	orics	Unsatisfactory	Developing	Satisfactory	10%				
9	%	(0-39%)	(40-69%)	(70-100%)	10/6				
No. of	student	2	9	13					
P.O	CLO		Mid Term (2) Exam		T.G				
1.2	1.2.1	•	Can be assessed by Exams: MCQ – true or false question, Long and short essays with (list – mention – What is / are – numerate).						
2.3	2.3.1	Can be assessed by Exams: MCQ ,fill in the space of high level thinking questions - Long and short essays with (why – explain – how to predict – how to interpret – how to evaluate – how to formulate – compare – differentiate – Analyze ).							
Ruk	orics	Unsatisfactory	Unsatisfactory Developing Satisfactory						
9	%	(0-39%)	(40-69%)	(70-100%)	10%				
No. of s	tudents	1	10	13					
P.O	CLO		Final Practical Exam		T.G				
5.1	5.1.1	Can be assessed by Exam through carrying out experiments of the course ( eg:detection of GIT enzyme activities and suitable situation for its proper action , bile pigment and bile juice action )							
		bile pigment and bile juice	action )		20				
Rubrics		bile pigment and bile juice  Unsatisfactory	Developing	Satisfactory					
	<b>%</b>	, ,		Satisfactory (70-100%)	20%				
		Unsatisfactory	Developing	-					
9		Unsatisfactory (0-39%) 0	Developing (40-69%)	(70-100%) 21					
No. of stu	dents	Unsatisfactory (0-39%) 0	Developing (40-69%) 3 Final Theoretical Exam MCQ – true or false question	(70-100%) 21	20%				
No. of stu  P.O  1.1	CLO 1.1.1	Unsatisfactory (0-39%)  0  Can be assessed by Exams: with (list – mention – What Can be assessed by Exams: Long and short essays with	Developing (40-69%) 3 Final Theoretical Exam MCQ – true or false question	(70-100%) 21  n, Long and short essays  n level thinking questions - dict – how to interpret –	20% T.G				
P.O 1.1 1.2 2.2 2.3	CLO 1.1.1 1.2.1 2.2.1	Unsatisfactory (0-39%)  O  Can be assessed by Exams: with (list – mention – What Can be assessed by Exams: Long and short essays with how to evaluate – how to fanalyze –Classify.  Unsatisfactory	Developing  (40-69%)  3  Final Theoretical Exam  MCQ – true or false question is / are – numerate).  MCQ, fill in the space of high (why – explain – how to pre- ormulate – compare – difference	(70-100%) 21  n, Long and short essays  level thinking questions - dict – how to interpret – entiate – Analyze / how to  Satisfactory	20% T.G 17				
P.O 1.1 1.2 2.2 2.3 Ruk	CLO 1.1.1 1.2.1 2.2.1 2.3.1	Unsatisfactory (0-39%)  0  Can be assessed by Exams: with (list – mention – What Can be assessed by Exams: Long and short essays with how to evaluate – how to fanalyze –Classify.	Developing  (40-69%)  3  Final Theoretical Exam  MCQ – true or false question is / are – numerate).  MCQ, fill in the space of high (why – explain – how to pre- ormulate – compare – differen	(70-100%) 21  n, Long and short essays  n level thinking questions - dict – how to interpret – entiate – Analyze / how to	20% T.G 17				

P.O	CLO		Homework			
1.1	1.1.1	Recognize the structure	of Digestive, Muscular,	and Nervous Systems.	2	
1.2	1.2.1	Determine the function	of Digestive, Muscular,	and Nervous Systems.	2	
Rul	orics	Unsatisfactory	Developing	Satisfactory		
9	%	(0-39%)	(40-69%)	(70-100%)	4%	
No. of	students	0 1 23				
P.O	CLO	Research				
3.2	3.2.1	Participate effectively with colleagues in researches and presentations				
4.2	4.2.1	Using advanced technology in collection and interpretation of data.				
Rul	orics	Unsatisfactory	Developing	Satisfactory		
9	%	(0-39%)	(40-69%)	(70-100%)	3%	
No. of s	students	0	8	16		
P.O	CLO		Lab assessment		T.G	
5.1	5.1.1	Use properly laboratory devices and equipment in carrying out experiments of the course Finish lab report				
Rul	orics	Unsatisfactory				
	%	(0-39%)	(40-69%)	(70-100%)	3%	
No. of s	students	0	10	14		





Course title: Applied Microbiology Course code: BOT 323 Year /semester:1436 – 1437 H /2 <sup>nd</sup> semester

#### **Consistency of outcomes of program and core course**

Domains		A	4		В		C		D		E						
POCs	1.1	1.2	1.3	1.4	2.1	2.2	2.3	2.4	3.1	3.2	3.3	3.4	4.1	4.2	4.3	5.1	5.2
COLCs																	

<sup>\*</sup> POCs= program outcomes

<sup>\*</sup>COLCs- course learning outcomes

Midterm	Midterm		Acti	vities					
1 MD 1	2 MD 2	Homework H.W	Research RES.	Class activities C.A	Lab. Assessment Lab. Ass	Total (MD 1, MD 2& activities )	Final practical exam P.F	Final Theoretical exam T.F	Total Degree
						activities_1			
MD/20 Activities+ Lab Ass. /10		0	30	20	50	100			

Instructor: Dr./ Rabab Mohamed Head of program / Dept. Dr: Mona Makkia

		Course	e learni	ng outc	omes			
Tools	1.1.1	1.2.2	2.1.1	2.2.1	3.2.1	4.1.1	5.1.1	Total
MD1	۲	٣	٣	۲	0	0	0	10%
MD2	2	2	۲	٤	0	0	0	10%
HW	•	1*	* \	0	0	0	0	2%
Res.	0	0	0	0	1	2**	0	3%
C. A	0	0	0	0	0	0	0	-
Lab Ass.	0	0	0	0	0	0	5	5%
P.F Exam	0	0	0	0	0	0	20	20%
T.F Exam	10	10	15	15	0	0	0	50%
Total	14	16	21	21	1	2	25	100%

<sup>\*</sup> Received through D2L gate \*\* Written Communication \*\*\* Lab reports and Microscopic Examination

Domains	POCs	COLCs
A1	Collect integrated comprehensive knowledge of the basic principles and theories related to biological science and theories of education which are necessary for professional preparation.	Identify different types of micro- organisms and the environments in which they live.
A2	Find the relationship between the scientific biological theories and other scientific and professional fields related to biological science.	Classify various microorganisms activities in the field of industry, soil, medical and water
B1	Investigate the information and analyze them to study phenomena related to Biological science and teaching problems that she face, then using it in proposing innovative solutions based on her theoretical and practical background to take appropriate decisions	Classify antibiotic resistance bacteria
B2	Analyze the relationship between the construction and function at the molecular, cellular, organic and ecological levels with explanation of the molecular mechanisms, metabolism and gene expression	Differentiate between economic important of microorganism.
C2	Exercise group's leadership in a variety of situations which require innovative responses	Interact collective discussion and take responsibility for self-learning.
D1	Communicate verbally and in written ways by using appropriate display forms for different issues with different recipients.	Learn how to search for an information using the library or internet resources and Working in a group and learn time management.
E1	Mastered the use of tools and, laboratory devices in dissection and conduction of practical experiments	Apply different experiments related to the course and evaluate results.

P.O	CLO			T.G				
1.1	1.1.1	1	MCQ - true or false ,short e	ssays with (list – mention –	5			
1.2	1.2.1	What is / are – numerate).	NACO of biological thinking					
2.1	2.1.1	II	MCQ of high level thinking of how to predict – how to in					
2.2	2.2.1	1 -	re – differentiate – Analyze /		5			
		study problems).	., .,	· · · · · · · · · · · · · · · · · · ·				
Ruk	orics	Unsatisfactory	Developing	Satisfactory	10%			
9	%	(0-39%)	(40-69%)	(70-100%)	1070			
No. of	student	3	4	3				
P.O	CLO		Mid Term (2) Exam					
1.1 1.2	1.1.1 1.2.1	Can be assessed by Exams: with (list – mention – What	MCQ – true or false questio t is / are – numerate).	n, Long and short essays	6			
2.1 2.2	2.1.1 2.2.1	Can be assessed by Exams: MCQ ,fill in the space of high level thinking questions - Long and short essays with (why – explain – how to predict – how to interpret – how to evaluate – how to formulate – compare – differentiate – Analyze / how to analyze – case study problems).						
Ruk	orics	Unsatisfactory	Developing	Satisfactory	100/			
9	%	(0-39%)	(40-69%)	(70-100%)	10%			
		11		<u> </u>				
No. of s	tudents	0	4	6				
P.O	CLO	0	Final Practical Exam	6	T.G			
			<del>-</del>		T.G 20			
P.O	CLO		Final Practical Exam	course and evaluate	20			
P.O 5.1 Rubrics	CLO	Apply different expe	Final Practical Exam riments related to the	course and evaluate results.				
P.O 5.1 Rubrics	<b>CLO</b> 5.1.1	Apply different expendence of the control of the co	Final Practical Exam riments related to the Developing	course and evaluate results.	20			
P.O 5.1 Rubrics	<b>CLO</b> 5.1.1	Apply different expensions  Unsatisfactory (0-39%) 0	Final Practical Exam riments related to the  Developing (40-69%)	course and evaluate results.  Satisfactory (70-100%) 7	20			
P.O  5.1  Rubrics  ++  No. of stu  P.O  1.1	5.1.1  +%  dents  CLO  1.1.1	Apply different experions  Unsatisfactory (0-39%)  0  Can be assessed by Exams:	Practical Exameriments related to the Developing (40-69%)  3  Final Theoretical Exameriment Exameriment Final Theoretical Exameriment Exam	course and evaluate results.  Satisfactory (70-100%) 7	20% T.G			
P.O  5.1  Rubrics  ++  No. of stu	5.1.1  +% idents CLO	Apply different experions  Unsatisfactory (0-39%)  0  Can be assessed by Exams: with (list – mention – What	Practical Exameriments related to the Developing (40-69%)  3  Final Theoretical Examerical Exameric	Satisfactory (70-100%) 7 n, Long and short essays	20%			
P.O  5.1  Rubrics  ++  No. of stu  P.O  1.1 1.2	#%  clo  5.1.1  +%  clo  1.1.1  1.2.1	Unsatisfactory (0-39%)  Can be assessed by Exams: with (list – mention – What Can be assessed by Exams:	Practical Exameriments related to the Developing (40-69%)  3  Final Theoretical Exameriment MCQ – true or false question is / are – numerate).  MCQ, fill in the space of high	Satisfactory (70-100%) 7 n, Long and short essays h level thinking questions -	20% T.G			
P.O  5.1  Rubrics  ++  No. of stu  P.O  1.1 1.2	#% dents  CLO  1.1.1 1.2.1 2.1.1	Unsatisfactory (0-39%)  Can be assessed by Exams: with (list – mention – What Can be assessed by Exams: Long and short essays with	Practical Exameriments related to the Developing (40-69%)  3  Final Theoretical Examem MCQ – true or false question is / are – numerate).  MCQ, fill in the space of high (why – explain – how to present the space of the t	Satisfactory (70-100%) 7 n, Long and short essays h level thinking questions - dict – how to interpret –	20% T.G			
P.O  5.1  Rubrics  ++  No. of stu  P.O  1.1 1.2	#%  clo  5.1.1  +%  clo  1.1.1  1.2.1	Unsatisfactory (0-39%)  Can be assessed by Exams: with (list – mention – What Can be assessed by Exams: Long and short essays with how to evaluate – how to f	Practical Exameriments related to the Developing (40-69%)  3  Final Theoretical Exameriment MCQ – true or false question is / are – numerate).  MCQ, fill in the space of high	Satisfactory (70-100%) 7 n, Long and short essays h level thinking questions - dict – how to interpret –	20% T.G 20			
P.O  5.1  Rubrics  ++  No. of stu  P.O  1.1 1.2  2.1 2.2	#% dents  CLO  1.1.1 1.2.1 2.1.1	Unsatisfactory (0-39%)  Can be assessed by Exams: with (list – mention – What Can be assessed by Exams: Long and short essays with	Practical Exameriments related to the Developing (40-69%)  3  Final Theoretical Examem MCQ – true or false question is / are – numerate).  MCQ, fill in the space of high (why – explain – how to present the space of the t	Satisfactory (70-100%) 7 n, Long and short essays h level thinking questions - dict – how to interpret –	20% T.G 20			
P.O  5.1  Rubrics  ++  No. of stu  P.O  1.1  1.2  2.1  2.2  Ruk	***  ***  **  **  **  **  **  **  **	Unsatisfactory (0-39%)  Can be assessed by Exams: with (list – mention – What Can be assessed by Exams: Long and short essays with how to evaluate – how to f analyze –Classify.	Practical Exameriments related to the Developing (40-69%)  3  Final Theoretical Examerical Exameric	Satisfactory (70-100%) 7 n, Long and short essays h level thinking questions - dict – how to interpret – entiate – Analyze / how to	20% T.G 20			

P.O	CLO		Homework						
1.2	1.2.1	in which they live and	es of micro-organisms d Classify various micr y, soil , medical and w	9	1				
2.1 2.2	2.1.1 2.2.1	Classify antibiotic res	sistance bacteria and l of microorganism.	Differentiate between	١				
Ruk	orics	Unsatisfactory	Developing	Satisfactory					
g	%	(0-39%)	(40-69%)	(70-100%)	2%				
No. of s	tudents								
P.O	CLO	Research							
3.2	3.2.1	Interact collective discussion and take responsibility for self-learning.							
4.1	4.1.1		Learn how to search for an information using the library or internet resources and Working in a group and learn time						
Ruk	orics	Unsatisfactory	Developing	Satisfactory					
Ç	%	(0-39%)	(40-69%)	(70-100%)	5%				
No. of s	tudents	0	0	10	5%				
P.O	CLO		Lab assessment		T.G				
5.1	5.1.1	Apply different exper results.	iments related to the	course and evaluate	5%				
Ruk	orics	Unsatisfactory	Developing	Satisfactory					
9	%	(0-39%)	(40-69%)	(70-100%)	5%				
No. of s	tudents	0	0	10					





Course title: Entomology 2 Course code: ZOO 321 Year /semester:1436 – 1437 H / 2 <sup>nd</sup> semester

#### **Consistency of outcomes of program and core course**

Domains		P	A		В		C			D		E					
POCs	1.1	1.2	1.3	1.4	2.1	2.2	2.3	2.4	3.1	3.2	3.3	3.4	4.1	4.2	4.3	5.1	5.2
COLCs																	

<sup>\*</sup> POCs= program outcomes

<sup>\*</sup>COLCs- course learning outcomes

Midterm	Midterm	Activities			Lab.				
1 MD 1	2 MD 2	Homework H.W	Research RES.	Class activities C.A	Assessment Lab. Ass	Total (MD 1,	Final practical exam	Final Theoretical exam	Total Degree
10	10	3	3	-	4	MD 2& activities)	P.F	T.F	
MD/20		10				30	20	50	100

Instructor: Pof.Dr/Hala Ali Head of program / Dept. Dr:Mona Makkia

		Cor	urse lea	arning o	utcomes	}			
Tools	1.1.1	1.1.2	2.1.1	2.2.1	2.3.1	3.2.1	4.2.1	5.2.1	Total
MD1	2	0	3	2	3	0	0	0	10%
MD2	3	0	2	2	3	0	0	0	10%
HW	1*	0	1*	1*	•	0	0	0	٣%
Res.	0	0	0	0	0	1	2	0	٣%
C. A	0	0	0	0	0	0	0	0	0
Lab Ass.	0	0	0	0	0	0	0	4 ***	4%
P.F Exam	0	0	0	0	0	•	0	20	20%
T.F Exam	14	0	11	11	14	0	0	0	50%
Total	20	0	17	16	20	1	2	24	100%

<sup>\*</sup> Received through D2L gate \*\* Written Communication \*\*\* Lab. reports

Domains	POCs	COLCs
A1	Collect integrated comprehensive knowledge of the basic principles and theories related to biological science and theories of education which are necessary for professional preparation.	Describe the mechanism of digestion, execration, blood circulation, respiration process in different insects with the different adaptations of internal structures
B1	Investigate the information and analyze them to study phenomena related to Biological science and teaching problems that she face, then using it in proposing innovative solutions based on her theoretical and practical background to take appropriate decisions	Explain the structure of nervous system and mechanism of nervous conduction
B2	Analyze the relationship between the construction and function at the molecular, cellular, organic and ecological levels with explanation of the molecular mechanisms, metabolism and gene expression	Compare between reproductive system, types of reproduction and metamorphosis in different insects
В3	Conclude the reasons for the relatively complex problems in biological science, using variable forms of information technologies and other sources.	Explain contraction and relaxation of muscles
C2	Exercise group's leadership in a variety of situations which require innovative responses	Show the presentation, educational films and speech in front of the others in good manner
D2	Use Appropriate information technology and communication in gathering information to interpret and implement it in teaching situations	Demonstrate the Preparation of presentations with reaching to useful sites on the Internet to increase knowledge of the contents of the course
E2	Know how to examine and draw microscopic sectors with valid scientifically method	Examine the microscopes specimens with identification by drawing and maintaining the laboratory tools by using them in a correct scientific way.

P.O	CLO		Mid Term (1) Exam		T.G				
1.1	1.1.1	Can be assessed by Exams:  – What is / are – numerate	MCQ - true or false ,short e e).	essays with (list – mention	2				
2.1 2.2 2.3	2.1.1 2.2.1 2.3.1	essays with (why – explain	MCQ of high level thinking – how to predict – how to in pare – differentiate – Analyz	nterpret – how to evaluate	3+2+3				
Rub	rics	Unsatisfactory	Developing	Satisfactory					
9	%	(0-39%)	(40-69%)	(70-100%)	10%				
No. of	student	3	4	8					
P.O	CLO		Mid Term (2) Exam		T.G				
1.1	1.1.1	Can be assessed by Exams: with (list – mention – Wha	MCQ – true or false questic t is / are – numerate).	on, Long and short essays	3				
2.1 2.2 2.3	2.1.1 2.2.1 2.3.1	- Long and short essays wit	Can be assessed by Exams: MCQ, fill in the space of high level thinking questions - Long and short essays with (why – explain – how to predict – how to interpret – how to evaluate – how to formulate – compare – differentiate – Analyze / how to analyze.						
Rub	rics	Unsatisfactory	Unsatisfactory Developing Satisfactory						
9	%	(0-39%) (40-69%) (70-100%)							
No. of s	tudents	0	12	3					
P.O	CLO		Final Practical Exam		T.G				
		Can be assessed by Exam through identify microscopic specimens of different parasites, draw life cycle of parasites and compare by drawing the stages of parasite							
5.2	5.2.1		n parasites and compare by	urawing the stages of	20				
5.2 Rubrics	5.2.1		Developing Developing	Satisfactory	20				
Rubrics	5.2.1	parasite			20%				
Rubrics	<b>%</b>	parasite  Unsatisfactory	Developing	Satisfactory					
Rubrics	<b>%</b>	Unsatisfactory (0-39%) 0	Developing (40-69%)	Satisfactory (70-100%) 11					
Rubrics 9 No. of stu	dents	parasite  Unsatisfactory  (0-39%)  0	Developing (40-69%)  4  Final Theoretical Exam MCQ – true or false question	Satisfactory (70-100%) 11	20%				
Rubrics 9 No. of stu	dents	Unsatisfactory  (0-39%)  0  Can be assessed by Exams: with (list – mention – Whath Can be assessed by Exams: true or false questions, and short essays, with (why –	Developing (40-69%)  4  Final Theoretical Exam MCQ – true or false question	Satisfactory (70-100%)  11  On, Long and short essays  gh level thinking questions, ions. In addition to long or now to interpret – how to	20% T.G				
P.O 1.1 2.1 2.2 2.3	dents CLO 1.1.1  2.1.1 2.2.1	Unsatisfactory  (0-39%)  O  Can be assessed by Exams: with (list – mention – Whath Can be assessed by Exams: true or false questions, and short essays, with (why – evaluate – how to form	Developing  (40-69%)  4  Final Theoretical Exam  MCQ – true or false questict is / are – numerate).  MCQ, fill in the space of high paring or matching quest explain – how to predict – h	Satisfactory (70-100%)  11  On, Long and short essays  gh level thinking questions, ions. In addition to long or now to interpret – how to	20% T.G 14				
Rubrics  9  No. of stu  P.O  1.1  2.1  2.2  2.3  Rub	6 cLO 1.1.1 2.1.1 2.2.1 2.3.1	Unsatisfactory  (0-39%)  0  Can be assessed by Exams: with (list – mention – Whath Can be assessed by Exams: true or false questions, and short essays, with (why – evaluate – how to form analyze	Developing (40-69%)  4  Final Theoretical Exam MCQ – true or false questict is / are – numerate).  MCQ, fill in the space of high paring or matching quest explain – how to predict – hulate – compare – differe	Satisfactory (70-100%)  11  on, Long and short essays  gh level thinking questions, ions. In addition to long or now to interpret – how to ntiate – analyze / how to	20% T.G 14				

P.O	CLO		Homework						
1.1	1.1.1	·	fic knowledge base that pre entific knowledge in parasito		1				
2.1 2.2	2.1.1 2.2.1	_	ge of medical parasites; t istics, life cycles, pathoge		2				
Ruk	orics	Unsatisfactory	Developing	Satisfactory					
9	%	(0-39%)	(40-69%)	(70-100%)	3%				
No. of s	students	0	٩	Ч					
P.O	CLO		Research						
3.2	3.2.1	Work effectively in team du	uring preparation of collect	ve research papers	1				
4.2	4.2.1	Demonstrate the preparation of research and presentations by using technology in good manner  Demonstrate an effective oral and written communication							
Ruk	orics	Unsatisfactory	Developing	Satisfactory					
9	%	(0-39%)	(40-69%)	(70-100%)	4%				
No. of s	students	0	6	9					
P.O	CLO		Lab assessment		T.G				
5.2	5.2.1	Perform microscopic exami			4%				
Ruk	orics	Unsatisfactory	Developing	Satisfactory					
9	%	(0-39%)	(40-69%)	(70-100%)	4%				
No. of s	students	0	1	14					





#### Consistency of outcomes of program and core course

Domains		A			В		C			D		E					
POCs	1.1	1.2	1.3	1.4	2.1	2.2	2.3	2.4	3.1	3.2	3.3	3.4	4.1	4.2	4.3	5.1	5.2
COICs																	

<sup>\*</sup> POCs= program outcomes

<sup>\*</sup>COLCs- course learning outcomes

Midterm	Midterm		Act	ivities					
1 MD 1	2 MD 2	Homework H.W	Research RES.	activities		<u>Total</u> (MD 1 ,MD 2 &	Final practical exam	Final Theoretical exam	Total Degree
10	10	5			5	activities <u>)</u>	P.F	T.F	
MD	MD/20 Activities+ Lab Ass. /10				30	20	50	100	

Instructor: Dr: Enas Shabaan Head of program / Dept.Mona Makkia

				Course	learnin	g outco	nes			
Tools	1.1.1		1.1.2	2.1.1	2.2.2	3.4.2	4.2.2	5.1.1	5.2.1	Total
MD1	5				5	0	0	0		10%
MD2	5				5	0	0	(	0	10%
HW			1*	1*	0	0	0	(	0	
Res.	0		0	0	0	1	2**	(	)	3%
C. A	0		0	0	0	0	0	(	O	-
Lab Ass.	0		0	0	0	0	0	5	***	5%
P.F Exam	0		0	0	0	0	0	2	0	20%
T.F Exam	10		10	15	15	0	0	0		50%
Total	20		11	26	15	1	2		25	100%

<sup>\*</sup> Received through D2L gate \*\* Written Communication \*\*\* Lab. reports and Microscopic Examination

Domains	POCs	COLCs
A1	Collect integrated comprehensive knowledge of the basic principles and theories related to biological science and theories of education which are necessary for professional preparation.	Identify the growth and development of plants and factors affecting them.
A2	Find the relationship between the scientific biological theories and other scientific and professional fields related to biological science.	Recognize hormones and plant growth regulators and its role in plant tissue culture.
B2	Analyze the relationship between the construction and function at the molecular , cellular , organic and ecological levels with explanation of the molecular mechanisms, metabolism and gene expression	Interpret the effect of each type of plant hormones on plant growth and development.
В3	Conclude the reasons for the relatively complex problems in biological science, using variable forms of information technologies and other sources.	Interpret plant tropism in response to an environmental stimulus
C4	Exercise group's leadership in a variety of situations which require innovative	Learn how to search for an information using the library or internet resources
D2	Use Appropriate information technology and communication in gathering information to interpret and implement it in teaching situations	Use modern techniques to search for the required references for work duties
E1	Mastered the use of tools and, laboratory devices in dissection and conduction of practical experiments	Apply different experiments related to plant growth and development and factors affecting them.
E2	Know well how to examine and draw microscopic sectors in a valid scientifically method	Test students ability to analyze and graph data and find explanations for each experiment

P.O	CLO		Mid Term (1) Exam		T.G					
1.1 1.2	1.1.1 1.2.2	Can be assessed by Exams: numerate).	,short essays with (list – me	ention – What is / are –	5					
2.1 2.2	2.1.1 2.2.2	Can be assessed by Exams: predict – how to interpret -	<ul><li>Long and short essays wit</li><li>how to evaluate</li></ul>	h (why – explain – how to	5					
Ruk	orics	Unsatisfactory	Developing	Satisfactory						
9	%	(0-39%)	(40-69%)	(70-100%)	10%					
No. of	student	1	4	14						
P.O	CLO		Mid Term (2) Exam							
1.1 1.2	1.1.1 1.2.2	Can be assessed by Exams: are – numerate).	Long and short essays with	(list – mention – What is /	5					
2.1 2.2	2.1.1 2.2.2	•	an be assessed by Exams high level thinking questions - Long and short essays vith (why – explain – how to predict – how to interpret – how to evaluate – ompare – differentiate							
Rub	orics	Unsatisfactory	Developing	Satisfactory						
9	%	(0-39%)	(0-39%) (40-69%) (70-100%)							
No. of s	tudents	2	8	9						
P.O	CLO		Final Practical Exam		T.G					
5.1 5.2	5.1.1 5.2.1	growth and development	nrough different experime t and factors affecting the nd graph data and find exp	em and testing the ability	20					
Rubrics		Unsatisfactory	Developing	Satisfactory	200/					
9	%	(0-39%)	(40-69%)	(70-100%)	20%					
No. of stu	dents	0	11	8						
P.O	CLO		Final Theoretical Exar	n	T.G					
1.1 1.2	1.1.1 1.2.1	Can be assessed by Exams: with (list – mention – What	MCQ – true or false questic is / are – numerate).	on, Long and short essays	25					
2.1 2.2	2.1.1 2.2.1	Can be assessed by Exams: MCQ, fill in the space of high level thinking questions - Long and short essays with (why – explain – how to predict – how to interpret – now to evaluate – how to formulate – compare – differentiate – Analyze / how to analyze –Classify.								
	rics	Unsatisfactory	Unsatisfactory Developing Satisfactory							
q	%	(0-39%)	(40-69%)	(70-100%)	50%					
	tudents	3	(0-39%)     (40-69%)     (70-100%)       7     9							

P.O	CLO		Homework		T.G				
1.2	1.2.1	•	fic knowledge base that pre entific knowledge in plant g		1				
2.1 2.2	2.1.1 2.2.1	_	ge of plant hormones; thy synthesis, and properties	neir distribution,	2				
Ruk	orics	Unsatisfactory	Developing	Satisfactory					
9	%	(0-39%) (40-69%) (70-100%)							
No. of s	tudents			19	3%				
P.O	CLO		Research		T.G				
3.4	3.4.1	Work effectively in team do	Work effectively in team during preparation of collective researches						
4.2	4.2.1	Demonstrate the preparation of research and presentations by using advanced technology in good manner Demonstrate an effective oral and written communication ).							
Ruk	orics	Unsatisfactory	Developing	Satisfactory					
9	%	(0-39%)	(40-69%)	(70-100%)	4%				
No. of s	tudents			19					
P.O	CLO		Lab assessment		T.G				
5.1 5.2	5.1.1 5.2.1	-Finish lab repot in each se -Demonstrate an ability to specimens	-Perform microscopic examination -Finish lab repot in each section -Demonstrate an ability to identify plant development from microscopic specimens - Interpret the effect of each type of plant hormones on plant growth and						
Ruk	orics	Unsatisfactory Developing Satisfactory							
9	%	(0-39%)	(40-69%)	(70-100%)	3%				
No. of s	tudents	19							





Course title: Parasitology Course code: ZOO412 Year /semester:1436 – 1437

H / 2 <sup>nd</sup> semester

### Consistency of outcomes of program and core course

Domains		A	1		В		C			D		E					
POLCs	1.1	1.2	1.3	1.4	2.1	2.2	2.3	2.4	3.1	3.2	3.3	3.2	4.1	4.2	4.3	5.1	5.2
COLCs																	

<sup>\*</sup> POLCs= program outcomes

Midterm	Midterm		Acti	vities					
1 MD 1	2 MD 2	Homework H.W	Research RES.	Class activities C.A	Lab. Assessment Lab. Ass	<u>Total</u> (MD 1 <u>,</u> MD 2 &	Final practical exam	Final Theoretical exam	Total Degree
10	10	٣	٣	•	4	activities	P.F	T.F	
MD/20			Activities+	Lab Ass. /10	)	30	20	50	100

Instructor: Prof. Dr./ Hala Ali Head of program / Dept Dr: Mona Makkia

<sup>\*</sup>COLCs- course learning outcomes

		Course	e learni	ng outc	omes			
Tools	1.1.1	1.1.2	2.1.1	2.2.1	3.2.1	4.2.1	5.2.1	Total
MD1	3	3	2	2	0	0	0	10%
MD2	4	2	2	2	0	0	0	10%
HW	•	1*	1*	1*	0	0	0	3%
Res.	0	0	0	0	1	2**	0	3%
C. A	0	0	0	0	0	0	0	-
Lab Ass.	0	0	0	0	0	0	4 ***	4%
P.F Exam	0	0	0	0	0	0	20	20%
T.F Exam	12	9	15	14	0	0	0	50%
Total	19	15	20	19	1	2	24	100%

<sup>\*</sup> Received through D2L gate \*\* Written Communication \*\*\* Lab reports and Microscopic Examination

Domains	POCs	COLCs
A1	Collect integrated comprehensive knowledge of the basic principles and theories related to biological science and theories of education which are necessary for professional preparation.	Recognize taxonomy, environments and life cycles of parasites
A2	Find the relationship between the scientific biological theories and other scientific and professional fields related to biological science.	Determine the effects of parasitism on the host and disease caused by various parasites to hosts
B1	Investigate the information and analyze them to study phenomena related to Biological science and teaching problems that she face, then using it in proposing innovative solutions based on her theoretical and practical background to take appropriate decisions	compare between the different types of parasites and hosts
B2	Analyze the relationship between the construction and function at the molecular , cellular , organic and ecological levels with explanation of the molecular mechanisms, metabolism and gene expression	Classify various parasites according to their positions in animal kingdom.
C2	Exercise group's leadership in a variety of situations which require innovative response	Work effectively in team
D2	Use Appropriate information technology and communication in gathering information to interpret and implement it in teaching situations	Demonstrate the preparation of research and presentations by using technology in good manner
E2	Know how to examine and draw microscopic sectors with valid scientifically method	Diagram life cycles of parasites through examination of exposed microscopic specimens

P.O	CLO		Mid Term (1) Exam		T.G			
1.1	1.1.1	Can be assessed by Exams: What is / are – numerate).	MCQ - true or false ,short e	ssays with (list – mention –	3+3			
1.2	1.2.1	·	MCQ of high level thinking q	uestions - Long and short				
2.1 2.2	2.1.1 2.2.1		– how to predict – how to in re – differentiate – Analyze /	•	2+2			
		study problems).						
Ruk	orics	Unsatisfactory	Developing	Satisfactory				
9	%	(0-39%)	(40-69%)	(70-100%)	10%			
No. of	student	0						
P.O	CLO		Mid Term (2) Exam		T.G			
1.1 1.2	1.1.1 1.2.1	Can be assessed by Exams: MCQ – true or false question, Long and short essays with (list – mention – What is / are – numerate).						
2.1 2.2	2.1.1 2.2.1	Can be assessed by Exams: MCQ ,fill in the space of high level thinking questions - Long and short essays with (why – explain – how to predict – how to interpret – how to evaluate – how to formulate – compare – differentiate – Analyze / how to analyze – case study problems).						
Ruk	rics	Unsatisfactory	Developing	Satisfactory				
9	%	(0-39%) (40-69%) (70-100%)						
No. of s	tudents	2	8	14				
P.O	CLO		<b>Final Practical Exam</b>		T.G			
5.2	5.2.1	-	nrough identify microscopic s f parasites and compare by	-	20			
Rubrics	<u>-</u>	Unsatisfactory	Developing	Satisfactory				
9	%	(0-39%)	(40-69%)	(70-100%)	20%			
No. of stu	dents	0	6	18				
P.O	CLO		Final Theoretical Exam	1	T.G			
1.1 1.2	1.1.1 1.2.1	Can be assessed by Exams: with (list – mention – What	MCQ – true or false question is / are – numerate).	n, Long and short essays	12+9			
2.1 2.2	2.1.1 2.2.1	Can be assessed by Exams: MCQ, fill in the space of high level thinking questions - Long and short essays with (why – explain – how to predict – how to interpret – how to evaluate – how to formulate – compare – differentiate – Analyze / how to analyze –Classify.						
	orics	Unsatisfactory	Developing	Satisfactory				
	tudents	(0-39%) 0	(40-69%) 4	(70-100%) 17	50%			

P.O	CLO		Homework						
1.2	1.2.1	·	fic knowledge base that prepentific knowledge in parasito		1				
2.1 2.2	2.1.1 2.2.1		ge of medical parasites; th istics, life cycles, pathoger		2				
Ruk	orics	Unsatisfactory	Developing	Satisfactory					
9	6	(0-39%)	(40-69%)	(70-100%)	3%				
No. of s	tudents								
P.O	CLO		Research papers						
3.2	3.2.1	Work effectively in team during preparation of collective researches							
4.2	4.2.1	Demonstrate the preparation of research and presentations by using technology in good manner  Demonstrate an effective oral and written communication ).							
Ruk	orics	Unsatisfactory	Developing	Satisfactory					
9	<b>%</b>	(0-39%)	(40-69%)	(70-100%)	3%				
No. of s	tudents	0	0	24					
P.O	CLO		Lab assessment		T.G				
5.2	5.2.1	Finish lab repot in each sec	Perform microscopic examination  Finish lab repot in each section  Demonstrate an ability to identify different parasites from microscopic specimens						
Ruk	orics	Unsatisfactory	Developing	Satisfactory	4%				
9	6	(0-39%)	(40-69%)	(70-100%)					
No. of s	tudents	2	•	22					





Course title: Scientific Research Methodology Course code: BIO,415 Year /semester:1436 –

1437 H / 2 <sup>nd</sup> semester

#### Consistency of outcomes of program and core course

Domains		A	A			В		C			D			F	C		
POCs	1.1	1.2	1.3	1.4	2.1	2.2	2.3	2.4	3.1	3.2	3.3	3.4	4.1	4.2	4.3	5.1	5.2
COCs																	

<sup>\*</sup> POCs= program outcomes

\*COLCs- course learning outcomes

Midterm	Midterm	Activities		
1 MD 1	2 MD 2	Research	Final Theoretical	
0	0		exam T.F	Total Degree
		40		
	)	40	60	100

Instructor: Dr./Amal El-sayed Head of program / Dept.: Dr. Mona makkia

				C	Course lea	arning o	utcomes			
Tools	1.1.1	1.2.1	2.1.1	2.2.1	3.2.1	4.1.1	4.2.1	5.1.2	5.2.2	Total
MD1	0	0	0	0	0	0	0	0	0	0%
MD2	0	0	0	0	0	0	0	0	0	0%
Research	0	0	10	0	10	10*	10**	0	0	40%
Oral discussion	0	0	0	0	0	0	0	0	0	0%
Lab Ass.	0	0	0	0	0	0	0	0	0	0%
P.F Exam	0	0	0	0	0	0	0	0	0	0%
T.F Exam	22	10	0	28	0	0	0	0	0	60%
Total	22	10	10	28	10	10	10	0	0	100%

Domains	POCs	COLCs
A1	Collect integrated comprehensive knowledge of the basic principles and theories related to biology science and theories of education and learning which are necessary for professional preparation	Propose the subject and the aim of the work.
A2	Find the relationship between the theories of biology ,scientific, professional and other areas related to biology science	Describe the plan.
B1	Investigate the information and analyze them to study phenomena related to Biological science and teaching problems that she face, then using it in proposing innovative solutions based on her theoretical and practical background to take appropriate decisions	Explain results
B2	Analyze the relationship between the construction and function at the molecular, cellular, organic and ecological levels with explanation of the molecular mechanisms, metabolism and gene expression	Write an essay
C2	Exercise group's leadership in a variety of situations which require innovative responses	Show a trend towards accepting the opinions of others
D1	Communicate verbally and in written ways by using appropriate display forms for different issues with different recipients	
D2	Use Appropriate information technology and communication in gathering information to interpret and implement it in teaching situations .	-Innovate in presentation

P.O	CLO		Mid Term (1) Exam		T.G					
1.1 1.2	1.1.1 1.2.1	Can be assessed by Exams: What is / are – numerate).	MCQ - true or false ,short e	ssays with (list – mention –	0					
2.1 2.2	2.1.1 2.2.1	Can be assessed by Exams: essays with (why – explain	MCQ of high level thinking on the predict — how to ingredict — how to ingree — differentiate — Analyze /	terpret – how to evaluate –	0					
					0					
	orics	Unsatisfactory	Developing	Satisfactory						
	<u> </u>	(0-39%)	(40-69%)	(70-100%)	0%					
	student	4	0	0						
P.O	CLO		Mid Term (2) Exam		T.G					
1.1 1.2	1.1.1 1.2.1	Can be assessed by Exams: What is / are – numerate).	MCQ - true or false ,short e	ssays with (list – mention –	0					
2.1 2.2	2.1.1 2.2.1	essays with (why – explain	MCQ of high level thinking on the predict — how to predict — how to in the predict — Analyze /	terpret – how to evaluate –	0					
					0					
Rub	rics	Unsatisfactory	Developing	Satisfactory						
9	%	(0-39%)	(40-69%)	(70-100%)	0%					
No. of s	tudents	0	0	0						
P.O	CLO		<b>Final Practical Exam</b>		T.G					
5.1	5.1.1	Not applied			o					
5.2	5.2.1									
Rubrics		Unsatisfactory	Developing	Satisfactory	00/					
9	%	(0-39%)	(40-69%)	(70-100%)	0%					
No. of stu	dents	0	0	0						
P.O	CLO		Final Theoretical Exam	1	T.G					
1.1 1.2	1.1.1 1.2.1	Can be assessed by Exams: What is / are – numerate).	MCQ - true or false ,short e	ssays with (list – mention –	32					
2.1 2.2	2.1.1 2.2.2	essays with (why – explain								
		Unsatisfactory	Unsatisfactory Developing Satisfactory							
Ruk										
9	orics 6 tudents	(0-39%)	(40-69%) 0	(70-100%)	60%					

P.O	CLO		Oral Discussion		T.G
3.2	3.2.1	Show a trend towards acce	pting the opinions of others		10
Rub	orics	Unsatisfactory	Developing	Satisfactory	
9	%	(0-39%)	(40-69%)	(70-100%)	10%
No. of s	tudents	0	0	7	_0,0
P.O	CLO		Research		T.G
<b>4.1</b> 4.2	4.1.1 4.2.1	-use IT and search for info -Innovate in presentation	rmation.		30
Rub	orics	Unsatisfactory	Developing	Satisfactory	
9	%	(0-39%)	(40-69%)	(70-100%)	30%
No. of s	tudents	0	0	7	
P.O	CLO		Lab assessment		T.G
5.1 5.2		Not applied			0%
Rub	orics	Unsatisfactory	Developing	Satisfactory	0%
9	%	(0-39%) (40-69%) (70-100%)			
No. of s	tudents	0	0	0	





#### Consistency of outcomes of program and core course

Domains		A	A			В		C			D			]	E		
POCs	1.1	1.2	1.3	1.4	2.1	2.2	2.3	2.4	3.1	3.2	3.3	3.2	4.1	4.2	4.3	5.1	5.2
COCs																	

<sup>\*</sup> POCs= program outcomes

<sup>\*</sup>COLCs- course learning outcomes

Midterm	Midtorm		Activities					
1 MD 1	2 MD 2	Homework H.W 4	Research RES.	Lab. Assessment Lab. Ass	Total (MD 1, MD 2 &	Final practical exam P.F	Final Theoretical exam T.F	Total Degree
					activities_			
MD/20 A		Activ	ities+ Lab A	ss. /10	30	20	50	100

Instructor: prof./ Zeinab Abd Elmohdy Head of program / Dept Dr: Mona Makki

			Cours	e learni	ng outco	mes			
Tools	1.1.1	1.2.1	2.2.1	2.3.1	3.2.1	4.2.1	5.1.1	5.2.1	Total
MD1	6		4		0	0	0		10%
MD2		4		6	0	0	0		10%
HW			2*	2*		0	0		4%
Res.	0	0	0	0	1	2**	0		3%
C. A	0	0	0	0	0	0	0		-
Lab Ass.	0	0	0	0	0	0	3 **	**	3%
P.F Exam	0	0	0	0	0	0	20	)	20%
T.F Exam	8	12	10	20	0	0	0		50%
Total	14	16	16	28	1	2	23	3	100%

<sup>\*</sup> Received through D2L gate \*\* Written Communication \*\*\* Lab. reports and Microscopic Examination

Domains	POCs	COLCs
A1	Collect integrated comprehensive knowledge of the basic principles and theories related to biological science and theories of education which are necessary for professional preparation.	Recognize the structure of cardiovascular, Respiratory, Urinary and Endocrine System
A2	Find the relationship between the scientific biological theories and other scientific and professional fields related to biological science.	Determine the function of cardiovascular, Respiratory, Urinary and Endocrine System
B2	Analyze the relationship between the construction and function at the molecular, cellular, organic and ecological levels with explanation of the molecular mechanisms, metabolism and gene expression	Explain the mechanism of action of cardiovascular, Respiratory, Urinary and Endocrine systems.
В3	Conclude the reasons for the relatively complex problems in biological science, using variable forms of information technologies and other sources.	Analyze the phenomena and problems related to the function of cardiovascular, Respiratory, Urinary and Endocrine systems
C2	Exercise group's leadership in a variety of situations which require innovative responses	Participate effectively with colleagues in researches and presentations
D2	Use Appropriate information technology and communication in gathering information to interpret and implement it in teaching situations	Using advanced technology in collection and interpretation of data.
<b>E</b> 1	Mastered the use of tools and, laboratory devices in dissection and conduction of practical experiments	Use properly laboratory devices and equipment in carrying out experiments for blood and urine samples
E2	Know well how to examine and draw microscopic sectors in a valid scientifically method	Examine and draw microscopic slides properly

P.O	CLO		Mid Term (1) Exam		T.G				
1.1	1.1.1	Can be assessed by Exams: What is / are – numerate).	MCQ - true or false ,short e	ssays with (list – mention –	6				
2.2	2.2.1	essays with (why – explain	MCQ of high level thinking on the predict of how to predict of how to in the predict of the pred	terpret – how to evaluate –	4				
Rub	orics	Unsatisfactory	Developing	Satisfactory	10%				
9	%	(0-39%)	(40-69%)	(70-100%)	10/6				
No. of	student	0 12 14							
P.O	CLO		Mid Term (2) Exam		T.G				
1.2	1.2.1	Can be assessed by Exams: MCQ – true or false question, Long and short essays with (list – mention – What is / are – numerate).							
2.3	2.3.1	Long and short essays with	Can be assessed by Exams: MCQ ,fill in the space of high level thinking questions - Long and short essays with (why – explain – how to predict – how to interpret – how to evaluate – how to formulate – compare – differentiate – Analyze ).						
Rub	rics	Unsatisfactory	Developing	Satisfactory	100/				
9	%	(0-39%)	(40-69%)	(70-100%)	10%				
No. of s	tudents	1	13	12					
P.O	CLO		Final Practical Exam		T.G				
5.1 5.2	5.1.1 5.2.1	-	nrough carrying out experim d drawing microscopic hema		20				
Rubrics		Unsatisfactory	Developing	Satisfactory	200/				
9	%	(0-39%)	(40-69%)	(70-100%)	20%				
No. of stu	dents	0	3	23					
P.O	CLO		Final Theoretical Exam	1	T.G				
1.1 1.2	1.1.1 1.2.1	Can be assessed by Exams: with (list – mention – What	MCQ – true or false question is / are – numerate).	n, Long and short essays	20				
2.2 2.3	2.2.1 2.3.1	Can be assessed by Exams: MCQ, fill in the space of high level thinking questions - Long and short essays with (why – explain – how to predict – how to interpret – how to evaluate – how to formulate – compare – differentiate – Analyze / how to analyze –Classify.							
Rub	orics	Unsatisfactory	Unsatisfactory Developing Satisfactory						
	<u> </u>	(0-39%)	(40-69%)	(70-100%)	50%				
No. of s	tudents	0	13	13					

P.O	CLO		Homework						
2.2	2.2.1	Explain the mechanism and Endocrine systems.	of action of cardiovascul	ar, Respiratory, Urinary	2				
2.3	2.3.1		and problems related to tory, Urinary and Endocr		2				
Ruk	orics	Unsatisfactory	Unsatisfactory Developing Satisfactory						
9	%	(0-39%)	(40-69%)	(70-100%)	4%				
No. of s	students	0	0	26	470				
P.O	CLO		Research		T.G				
3.2	3.2.1	Participate effectively with colleagues in researches and presentations							
4.2	4.2.1	Using advanced tech data.	nnology in collection	and interpretation of	2				
Ruk	orics	Unsatisfactory	Developing	Satisfactory					
9	%	(0-39%)	(40-69%)	(70-100%)	3%				
No. of s	tudents	0	13	13					
P.O	CLO		Lab assessment		T.G				
5.1 5.2	5.1.1 5.2.1	Use properly laboratory devices and equipment in carrying out experiments of blood and urine samples  Examine and draw microscopic slides properly							
Ruk	orics	Unsatisfactory Developing Satisfactory							
9	%	(0-39%)	(0-39%) (40-69%) (70-100%)						
No. of s	tudents	0	8	18					