







Majmaah University

Deanship of quality and skills development

Faculty of Education Majmaah

Developmental Evaluation Project

Commission of programmatic context

(part I)

Faculty of Education Majmaah

Modified models / Biology program

Title	Page
Consistency Matrix between the mission of the university and the mission of the	1
college	
Consistency Matrix between the mission of the college and the mission of the	2
program	
Consistency Matrix between the mission of the program and the objectives of the	3
program	
The main objectives that achieve the program mission , its performance measurable	5
indicators and main strategies that achieve it	
Consistency Matrix between learning outcomes and program objectives	6
Consistency Matrix between learning program outcomes and outcomes of the	9
National Commission for Academic Accreditation & Assessment (NCAAA)	
Basic Skills Of the university	13
Basic skills of program)Program Skills	25
Rubrics for assessing learning outcomes	31
Program's Map	47
Techniques of Measuring Learning Outcomes	49
(X Matrix) of Program's outcomes and courses	51
(I,R,E Matrix) of Program' outcomes and courses	55
Chosen courses to measure learning outcomes	58
Timetable for measuring outcomes	61
Matrix of outcomes of each courses in program	63

Consistency Matrix between the mission of the university and the mission of the college

College:- Faculty of Education Majmaah

Academic department :- Biology

The program:- Biology

through Acad	The miss versity offers ad emy system whic esponsibility and	h is able to con	onal and rese	e context of		
Society partnership	Professional responsibility	Academy competitive	Advanced research services	Advanced educational services	to, university	the sof
					Preparing for	
					qualified	the
					scientifically,	ed . Id es to
×	×	×			educationally and	ialifié ic ar ervice
					professionally	ly qu entif ial se
					graduation	ional n sci ation
					providing advanced	cally , educationally and professionally qualified . d educational programs; system which able to compete in scientific and also provide research and educational services to the
				×	educational	d pro
					programs	onally and programs; able to cc esearch a
					build the academy	onally progra able esear
					system which able	icatic nal l hich ide r
		×			to compete in the	, edu catic m w prov
					scientific and	ically , educatio d educational system which l also provide r
					educational field	
					providing a research	Preparing for scientifi by providing advanced to build the academy educational field, and community
			×		and educational	g for ding the a nal f ity
					services	Preparing for by providing to build the a educational f community
×					Community service	Prek by p to b edu com

The current mission of the College

Preparing a qualified scientifically, educationally and professionally graduations by providing advanced educational

programs; to build the academy system which able to compete in the scientific and educational field, and providing a research and educational services to the community

MUP02

Consistency Matrix between the mission of the college and the mission of the program

College:- Faculty of Education in Majmaah Academic department :- Biology

The program:- Biology

Prepari graduatic academy	ons by providin system which a	cientifically , ed	icational progra in the scientific educational ser	ms; to build the and educational		
Society service	providing a research and educational services	build the academy system which able to compete in the scientific and educational field	providing advanced educational programs	Preparing a qualified scientifically, educationally and professionally graduations	Key words of the mission of the college	
				×	Preparing a new generation of qualified graduates	qualified ntific and eds and ket and e field of e society
			×	×	equipped with scientific and practical knowledge	n of qual vith scientific the needs ug market h in the fiel elop the soo
×		×			to meet the needs and requirements of the working market	Preparing a new generation of qualified graduates and d that equipped with scientific and practical knowledge to meet the needs and requirements of the working market and contribute to conduct research in the field of biology to develop the society
	×				Contribute to conduct research in biology field.	a and cnow ents ents e to
×	×				Society development	Preparing graduates a practical k requireme contribute

The current mission of the program

1- Biology Department, Faculty of Education in Majmaah prepared a new generation of graduates that they're scientifically and cognitively qualified in the field of biology to meet the needs and requirements of the working market

2- Biology Department contributes in developing society through presenting scientific and practical knowledge and also provides advisory and training services

3- Biology Department contributes in conducting studies and scientific research to support the profession and the community.

The mission of the program Modifying

prepared a new generation of qualified graduates with scientific and practical knowledge to meet the doing research contributes in developing society needs and requirements of the working market and in biology field.

MUP02

Consistency Matrix between the mission of the program and the objectives of the program

College:- Faculty of Education in Majmaah Academic department :- Biology

The program:- Biology

	Mission o	f the prog	ram				
Society development	to meet the needs and requirements of the working .market	to meet the needs and requirements of the working .market	equipped with scientific and practical knowledge	Preparing a new generation of qualified graduates	Key we	ords	
			×	×	First objective	he	
	×		×		Second objective	es of tl	u ugi alli
		×	×		Third objective	Objectives of the	bi ug
×	×		×		Fourth objective	Ŏ	

Objectives of the program:-

Graduating qualified students for creative thinking to teach biology in the various stages of education	1
Developing communication skills and creativity for graduates students in the research process and self-learning by using information technology	2
Presenting principles and professional ethics in Biology teaching .	3
Helping graduate to identify the scientific concepts and results of studies on all living organisms and environmental studies in all areas of the kingdom	4

Mission and objectives of the program College:- college of education in Majmaah Academic department :- Biology The program:- Biology

Mission of the program

prepared a new generation of qualified graduates with scientific and practical knowledge to meet the needs and requirements of the working market and contributes in developing society doing research in biology field to develop

2- Goals of the program :-

1- built research laboratories on high quality and specialized devices to be available for serve the community in the areas of research fields .

2-Preparing scientific graduates specialized in the field of biological sciences scientific in high studies that competes with local and international .universities

The main objectives that achieve the program mission , its performance measurable indicators and main strategies that achieve it :-

main strategies	performance measurable indicators	Main objectives
 1- developing the study plan 2- attracting elite group of faculty members 3- held community partnership with employers 	Proficient in creative thinking skills in biological sciences field. 1- The proportion of employment satisfaction for graduates of the program (points of not less than 80%) 2- A report from external advisory Committee	1- Graduating a qualified students with creative thinking to teach biology in the various stages of education
 put special programs for talented and featured students exchange experiences among Saudi students in biology field . using modern technologies in teaching . 	 1- The proportion of employment satisfaction for graduates of the program (points of not less than 80%) 2- A report from external advisory Committee 	Developing communication skills and creativity for graduates students in research process and self-learning using information technology
 1- Preparing a code of ethics for teaching Biology profession . 2- hold regular seminars for students to consolidate the professional principles and ethics 	 1- Commitment to the principles and professional ethics . The proportion of - employment satisfaction for graduates ethics of the program (points of not less than 80%) 2- A report from external advisory. Committee 	Presenting principles and professional ethics in teaching biology
 Providing a security in learning environment that is good for research study is valid in Biology field . Organizing the scientific forum of the sectors in in Biology field . 	 advisory Committee 1- Knowledge of the results of various studies in the field 2- The proportion of students' satisfaction for laboratories, facilities of the program (points of not less than 80%) 3- A report from external advisory Committee 	- Helping the graduate to identify the scientific concepts and results of studies on all living organisms and environmental studies in the areas of the kingdom

کود النموذج Consistency Matrix between learning outcomes and program objectives

College:- college of education in Majmaah

Academic department :- Biology

The program:- Biology

obj	objectives of the program						
Objective (4)	Objective (3)	Objective (2)	Objective (1)	-			
				Α	GS		
					outcomes		
				в	CO		
				D	out		
				c	in		
					-earning		
				D	69		
					┤╺┛		
				E			

(A) Knowledge , (B) Cognitive skills , (C) Dealing with others skills and the ability to take responsibility , (D) communication skills , information technology and numerical skills (\in) Self-kinetic skills

Outcomes of the program :-

Outcomes	code	area
Collect integrated comprehensive knowledge of the basic principles and theories related to biological science and theories of education which are necessary for professional preparation.	a1	
Find the relationship between the scientific biological theories and other scientific and professional fields related to biological science.	a2	
Classify the latest educational and psychological developments and recent researches that can find solutions for issues and increase knowledge in biology field.	a.3	A
Explain the systems and regulations of the profession and its technical requirements and how to improve them according to the subsequent changes	a.4	
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	b1	
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	b2	В
Conclude the reasons for the relatively complex problems in biological science, using variable forms of information technologies and other sources.	B.3	
Link between knowledge, acquiring skills, academic, and professional contexts related to the teaching of biology fields.	b4	
Take the initiative in identifying the issues and class rooms problems with suggestion of constructive solutions in the collective and individual attitudes	c1	
Exercise group's leadership in a variety of situations which require innovative responses	c2	
Form a positive trends towards the teaching profession committed to ethical and professional values, taking into account the humane treatment of all living organisms in the field of research and laboratory	c.3	С
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	c.4	

Communicate verbally and in written ways by using appropriate display forms for different issues with different recipients.	d1	D		
Use Appropriate information technology and communication in gathering information to interpret and implement it in teaching	d2			
situations				
Determine the statistical and mathematical methods which are relevant in examining issues and problems, and creatively applied in interpreting the information and propose solutions				
Master the use of tools and, laboratory devices in dissection and conduction of practical experiments	e1	E		
Know well how to examine and draw microscopic sectors in a valid scientifically method	e2			

Objectives of the program:-

- Graduating a qualified students with creative thinking to teach biology in the various stages of education

-Developing communication skills and creativity for graduates students in research process and self-learning using information technology

-Presenting principles and professional ethics in teaching biology

- helping the graduate to identify the scientific concepts and results of studies on all living organisms and environmental studies in the areas of the kingdom

كود النموذج MUP05

Consistency Matrix between learning program outcomes and outcomes of the National Commission for evaluation and Accreditation (NCAAA)

College:- college of education in Majmaah

Academic department :- Biology

The program:- Biology

E NCAAA		D	ICAAA				C،	ICAAA					B	ICAAA			A	NCAAA			
E1	D3	D2	D1	C5	C4	С3	C2	C1	B6	B5	B4	B3	B2	B1	A4	A3	A1	A1			
																			a1		
																			a2	^	
																			A3	Α	·
																			A4		
																			b1 b2 B3	В	-
																			B4		·
																			c1 c2 C3	с	-
																			C4		
																			d1 d2 D3	D	
							9									•		•	e1 e2	E	

Outcomes of the National Commission for evaluation and Academic

accreditation (NCAAA)

Learning outcomes	code	area
Have an integrated , comprehensive knowledge and structured study field of study . Also need the principles and basic theories related to that field.	A1	
Be familiar with the knowledge and theories in other areas of science which is related to this area, and conversant with other relevant professional areas of if the .specialization is professionally	A2	
Be familiar with as well as the latest developments in the disciplines included in the field of study including higher awareness of modern research on finding solutions to .the issues and increase knowledge in the field .	A3	A
In programs that prepare students for professional practice, the graduates are aware of the systems and regulations of the profession, technical requirements and .how to improve it over time in response to changes in ambient conditions	A4	

Can do the survey, to understand the information , concepts and new evidence from ,a variety of sources	B1	
apply the results to a wide range of issues and problems with a small amount of .guidance	B2	
Be looking for relatively complex problems by using a variety of technologies information forms and other sources	В3	
proposes innovative solutions with taking into account the theoretical knowledge and practical experiences which are related to this field and consequent decisions depends on	B4	В
apply these skills and bleachers in the academic and professional contexts related to ,the field . As in professional programs	В5	
Be able to use the usual procedural methods (routine) appropriately, identifying situations that require innovative solutions and respond depends on the theoretical .and practical background .	B6	
Using regular procedure in professional program properly and can take advantage of the theoretical and practical ideas related to identify situations that require .innovative solutions	C1	
The group's leadership is practiced in a variety of situations requiring innovative .responses	C2	
identifying the issues that require special and respond appropriately whether it's . .individually or through collective action	С3	с
Take responsibility for self-learning and can be determined and used means of finding new information or necessary to accomplish the tasks assigned analysis .methods	C4	
Deals with the ethical and professional issues that are related to the values and moral judgments in ways that are sensitive to others and are compatible with the .core values and professional ethics accepted	C5	
Determines the statistical and mathematical methods relevant when examining the issues and problems, and to apply them creatively in interpreting the information .and propose solutions	D1	
Communicate written and verbally effectively , to choose and use appropriate forms .of presentation of the different issues and different recipients	D2	D
Used routinely (routine) more information and communication technologies .suitable to gather, interpret and communicate information and ideas	D3	
Skills required self and tactile synergy in the use of machine tools or a specific example of printing, painting, surgery, and is associated with some skill disciplines		E

Outcomes of the program :-

Outcomes	code	area
Collection of integrated comprehensive knowledge of the basic principles		
and theories of biology and theories of education and learning which are	a1	Α

necessary for professional preparation .		
Find the relationship between the theories of Biology, scientific,	a2	
professional and other areas related to the fields of Biology.		
The latest educational and psychological developments are classified as	a.3	
modern research to find solutions to the issues and increase knowledge		
in the field of biology		
Interpretation of systems and regulations of the profession, technical	a.4	
requirements and how to improve them according to the successive		
changes .		
Investigates information and analysis study of phenomena related to		
biology in addition to classroom problems and teaching that faced them		
and use it to propose innovative solutions based on the theoretical and	b1	
practical background which are related. And take appropriate decisions		
Analyze the relationship between the construction and in	b2	
molecular, cellular, organic and ecological levels and explain the		В
molecular mechanisms regulating metabolism and gene expression		
Reducing the reasons for the relatively complex problems for biology,	B.3	
using a variety forms of information technologies and other resources.		
Linking knowledge and skills gained academic and professional contexts	B4	
related to areas of Biology teaching .		
Take the initiative in identifying the issues and problems of classroom and		
propose constructive solutions in the collective and individual situations.	c1	
	•1	
Exercise group's leadership in a variety situations	c2	С
which require innovative responses.		v
A positive attitude towards the teaching	c.3	
profession uncovered capabilities faculty and denominated in the		

same objectively and is committed to ethical and professional values consistent with the nature of society, and take into account the humane treatment of all living organisms in the field of research and laboratory Responsible for self-learning and continuing personal and professional c.4	
treatment of all living organisms in the field of research and laboratory	
Responsible for self-learning and continuing personal and professional c.4	
development, using the means of finding new information or necessary	
to accomplish the tasks assigned to analysis methods	
Communicate verbally and in writing effectively, by using the forms of	
the appropriate display of different issues with different recipients	
Appropriate information and communication technologies used in d2	D
gathering and interpretation information. Implementation of the	
teaching situations	
Determine the statistical and mathematical methods relevant when d.3	
examining the issues and problems, and creatively applied in interpreting	
the information and propose solutions	
Mastered the use of laboratory tools and devices in anatomy and conduct	
practical experiments e1	E
The renewal examination and draw a microscopic sectors with valid e2	
scientific way	

کود النموذج (Basic Skills Of the university)

College:- college of education in Majmaah

Academic department :- Biology

The program:- Biology

Practicing group's leadership in a variety of situations requiring innovative responses		
Identify work skills within the groups and how to use them	Performance indicator (1)	Performance indicators
Fluent command of the team skillfully if necessary	Performance indicator (2)	
Provide a safe environment for team work to generate creative ideas	Performance indicator (3)	

كود النموذج MUP06

(Basic Skills Of the university)

College:- college of education in Majmaah

Academic department :- Biology

Formatting Positive attitudes towards the teaching profession to discover teaching capabilities and denominate it objectively also, committed to ethical and professional values consistent with the nature of society, and take into account the humane treatment of all living organisms in the field of research and laboratory		
Be familiar with the knowledge , skills and trends that needed to build a professional and human relations with parents and the local community.	Performanc e indicator (1)	
Employ communication skills to build a positive relationships with the educational institution management and colleagues to achieve the objectives of the institution	Performanc e indicator (2)	Performance indicators
Applying ethics of the teaching profession in its dealings within and outside of the institution while dealing with living organisms	Performanc e indicator (3)	

كود النموذج (Basic Skills Of the university)

College:- college of education in Majmaah

Academic department :- Biology

MUP06

The program:- Biology

Responsible for self-learning and continuing personal and professional development, using the means of finding new information or necessary to accomplish the tasks assigned to analysis methods		
Developing professional performance on an ongoing basis based on contemporary developments in biology and teaching strategies.	Performanc e indicator (1)	Performance indicators
Applying a self-learning skills in personal and professional development	Performanc e indicator (2)	

(Basic Skills Of the university)

كود النموذج MUP06

College:- college of education in Majmaah

Academic department :- Biology

using effective verbally and written Communication, by appropriate forms of presentation of the various issues with the recipients of all types		
Identifying the communication and literature skills and how to use them to serve the educational process	Performanc e indicator (1)	Performance indicators
Communicating effectively and positively (verbally or written), in various positions within and outside the organization	Performanc e indicator (2)	
Using modern teaching aids to collect, prepare and analyze of the ideas, taking into the individual differences of students	Performanc e indicator (3)	

کود النموذج (Basic Skills Of the university)

College:- college of education in Majmaah

Academic department :- Biology

MUP07

The program:- Biology

Counts integrated comprehensive knowledge of the basic principles and basic theories related to the science of Biology and education and learning theories which are necessary for professional preparation.		
Knows skills, knowledge and trends which are related to the field of Biology teaching	Performanc e indicator (1)	Performance indicators
Employing the knowledge and skills which are related to the science of Biology in teaching situations	Performanc e indicator (2)	
shows Positive interest towards the profession of teaching Biology	Performanc e indicator (3)	

(Basic Skills Of the university)

College:- college of education in Majmaah

Academic department :- Biology

كود النموذج MUP07

classifies the latest educational and psychological developments and new research which are related to the solutions of the issues and increase the knowledge in the field of Biology		
Mastered the educational experiences , which qualifies them to teach Biology Science efficiently in the practical education	Performanc e indicator (1)	Performance indicators
Linking between curriculum, research methods and areas of using it in Biology teaching methods.	Performanc e indicator (2)	
Employing thinking skills to solve problems and various issues .of the educational process	Performanc e indicator (3)	

كود النموذج MUP07

College:- college of education in Majmaah

Academic department :- Biology

The program:- Biology

Explaining systems and regulations of the profession, its technical requirements and how to improve it according to the successive change		
Applying ethics of the teaching profession in dealings inside and outside the institution	Performanc e indicator (1)	Performance indicators
Applying learning and school management system inside and outside the institution	Performanc e indicator (2)	

كود النموذج MUP07 (Basic Skills Of the university)

College:- college of education in Majmaah

Academic department :- Biology

Investigates information and analyzes the study of phenomena related to biology in addition to classroom and teaching problems that faced them and use it to propose innovative solutions based on the theoretical and practical background of the relationship and take appropriate decisions		
Identify problems which are related to the science of Biology in the educational process	Performanc e indicator (1)	Performance indicators
Employs the basic steps for Educational Research in the scientific and educational classroom problems .	Performanc e indicator (2)	
Employs thinking skills in scientific research and to contribute in treatment of teaching problems related to the science of Biology	Performanc e indicator (3)	

كود النموذج MUP07

College:- college of education in Majmaha

Academic department :- Biology

The program:- Biology

Linking knowledge, gained skills, academic and professional contexts related to teaching of the fields of Biology		
Analysis the principles , theories, knowledge and skills which are related to teaching the science of Biology	Performanc e indicator (1)	Performance indicators
employs modern methods of evaluation in the assessment of learning outcomess	Performanc e indicator (2)	
Applying modern teaching strategies in teaching Biology	Performanc e indicator (3)	

كود النموذج MUP07

(Basic Skills Of the university)

College:- college of education in Majmaah

Academic department :- Biology

Take the initiative in identifying the issues and classroom' problems then propose constructive solutions in the collective and individual situations .		
Identifying work skills within the groups and how to use them	Performanc e indicator (1)	Performance indicators
using modern methods and strategies of teaching in proposing constructive solutions	Performanc e indicator (2)	
Activating the communication skills among the students in group activities .	Performanc e indicator (3)	

كود النموذج MUP07 (Basic Skills Of the university)

College:- college of education in Majmaah

Academic department :- Biology

The program:- Biology

Formatting a Positive attitude towards the teaching profession to be uncovered educational capabilities and denominated in the same objectively. Also, committing to ethical and professional values which consistent with the nature of society, and take into account the humane treatment for all living organisms in the field of research and laboratory. Applying self-learning skills in personal and professional	Performanc	Performance
development	e indicator (1)	indicators
Developing professional performance on an ongoing basis based on contemporary developments in professional development	Performanc e indicator (2)	
explain Islamic values and ethics of the teaching profession	Performanc e indicator (3)	

كود النموذج MUP07

(Basic Skills Of the university)

College:- college of education in Majmaah

Academic department :- Biology

Using appropriate information and communication		
technologies to collect and explain the information and		
Implementing it in teaching situations .		
Identify new trends in the field of information and communication technologies	Performanc e indicator (1)	Performance indicators
Use modern teaching aids in the collection , preparation , analysis, and dumping ideas, taking into account individual differences among students.	Performanc e indicator (2)	
Formatting a positive trend towards the use of information and communication technologies in the search for information and using them in implementing it in teaching situations	Performanc e indicator (3)	

College:- college of education in Majmaah

كود النموذج

MUP08

Academic department :- Biology

The program:- Biology

Counts integrated comprehensive knowledge of the basic principles and basic theories related to the science of Biology and education and learning theories which are necessary for professional preparation.		
Knows skills, knowledge and trends which are related to the field of Biology teaching	Performanc e indicator (1)	Performance indicators
Employing the knowledge and skills which are related to the science of Biology in teaching situations	Performanc e indicator (2)	
shows Positive interest towards the profession of teaching Biology	Performanc e indicator (3)	

كود النموذج MUP08

(Basic Skills Of the university)

College:- college of education in Majmaah

Academic department :- Biology

classifies the latest educational and psychological developments and new research which are related to the solutions of the issues and increase the knowledge in the field of Biology		
Mastered the educational experiences , which qualifies them to teach Biology Science efficiently in the practical education	Performanc e indicator (1)	Performance indicators
Linking between curriculum, research methods and areas of using it in Biology teaching methods.	Performanc e indicator (2)	
Employing thinking skills to solve problems and various issues .of the educational process	Performanc e indicator (3)	

كود النموذج MUP08

College:- college of education in Majmaah

Academic department :- Biology

The program:- Biology

Explaining systems and regulations of the profession, its technical requirements and how to improve it according to the successive change		
Applying ethics of the teaching profession in dealings inside and outside the institution	Performanc e indicator (1)	Performance indicators
Applying learning and school management system inside and outside the institution	Performanc e indicator (2)	

كود النموذج (Basic Skills Of the university)

College:- college of education in Majmaah

Academic department :- Biology

Investigates information and analyzes the study of phenomena related to biology in addition to classroom and teaching problems that faced them and use it to propose innovative solutions based on the theoretical and practical background of the relationship and take appropriate decisions		
Identify problems which are related to the science of Biology in the educational process	Performanc e indicator (1)	Performance indicators
Employs the basic steps for Educational Research in the scientific and educational classroom problems .	Performanc e indicator (2)	
Employs thinking skills in scientific research and to contribute in treatment of teaching problems related to the science of Biology	Performanc e indicator (3)	

کود النموذج ^{MUP08} College:- college of education in Majmaah

Academic department: - Biology

The program:- Biology

Linking knowledge, gained skills, academic and professional contexts related to teaching of the fields of Biology		
Analysis the principles , theories, knowledge and skills which are related to teaching the science of Biology	Performanc e indicator (1)	Performance indicators
employs modern methods of evaluation in the assessment of learning outcomess	Performanc e indicator (2)	
Applying modern teaching strategies in teaching Biology	Performanc e indicator (3)	

كود النموذج MUP08

(Basic Skills Of the university)

College:- college of education in Majmaah

Academic department :- Biology

Take the initiative in identifying the issues and classroom' problems then propose constructive solutions in the collective and individual situations .		
Identifying work skills within the groups and how to use them	Performanc e indicator (1)	Performance indicators
using modern methods and strategies of teaching in proposing constructive solutions	Performanc e indicator (2)	
Activating the communication skills among the students in group activities.	Performanc e indicator (3)	

كود النموذج MUP07

College:- college of education in Majmaah

Academic department :- Biology

The program:- Biology

Formatting a Positive attitude towards the teaching profession to be uncovered educational capabilities and denominated in the same objectively. Also, committing to ethical and professional values which consistent with the nature of society, and take into account the humane treatment for all living organisms in the field of research and laboratory.		
Applying self-learning skills in personal and professional development	Performanc e indicator (1)	Performance indicators
Developing professional performance on an ongoing basis based on contemporary developments in professional development	Performanc e indicator (2)	
explain Islamic values and ethics of the teaching profession	Performanc e indicator (3)	1

كود النموذج MUP07

(Basic Skills Of the university)

College:- college of education in Majmaah

Academic department :- Biology

Using appropriate information and communication technologies to collect and explain the information and Implementing it in teaching situations .		
Identify new trends in the field of information and communication technologies	Performanc e indicator (1)	Performance indicators
Use modern teaching aids in the collection , preparation , analysis, and dumping ideas, taking into account individual differences among students.	Performanc e indicator (2)	

Formatting a positive trend towards the use of information and communication technologies in the search for	Performanc e indicator (3)	
information and using them in implementing it in teaching		
situations.		

كود النموذج MUP08a

كود النموذج

MUP08a

(Basic Skills Of the university)

College:- college of education in Majmaah

Academic department :- Biology

The program:- Biology

 (a1) Educational outcomes Counts integrated comprehensive knowledge of the basic principles and basic theories related to the science of Biology and education and learning theories which are necessary for professional preparation . Know Biology theories and basic knowledge of the field of 	Performanc	Performance
Biology which are related to Biology and field of education and learning	e indicator (1)	indicators
Making research on the scientific level of private principles and theories of Biology	Performanc e indicator (2)	

(Basic Skills Of the university)

College:- college of education in Majmaah

Academic department :- Biology

(a2)Educational outcomes finding the relationship between the theories of Biology, and other scientific and professional areas which are related to the fields of science Biology		
Student can link the theories of Biology and other scientific and professional areas	Performanc e indicator (1)	Performance indicators
Define the relationship between the theories of Biology and professional and scientific fields through oral and written communication	Performanc e indicator (2)	

کود النموذج (Basic Skills Of the university)

College:- college of education in Majmaah

Academic department :- Biology

The program:- Biology

(a3)Educational outcomes classifies the latest educational and psychological developments and new research which are related to the solutions of the issues and increase the knowledge in the field of Biology		
The student prepared developed research to classify the latest educational and psychological developments	Performanc e indicator (1)	Performance indicators
Student propose solutions on a scientific basis, issues and increase knowledge in the field of Biology through panel discussions	Performanc e indicator (2)	
Students apply the latest educational and psychological developments through practical	Performanc e indicator (3)	

كود النموذج MUP08

(Basic Skills Of the university)

College:- college of education in Majmaah

Academic department :- Biology

(a4)Educational outcomes Explaining systems and regulations of the profession, its technical requirements and how to improve it according to the successive change		
Explaining systems and regulations of the profession through sessions .	Performanc e indicator (1)	Performance indicators
Doing systems and regulations during practical education.	Performanc e indicator (2)	

كود النموذج

MUP08a

(Program Skills)Basic skills of program

College:- college of education in Majmaah

Academic department :- Biology

The program:- Biology

(b1)Educational outcomes		
Investigates information and analyzes to study the phenomena which are associated with the knowledge of Biology in addition to classroom teaching and the problems faced and use it to propose innovative solutions and take appropriate decisions		
Facing problems of classroom teaching effectively during applied it in field training	Performance (1)index	rs KPIS
applying modern scientific methods in presenting scientific material	Performance (2) index	ance indicators
Analysis phenomena associated with the knowledge of Biology through worksheets or tests	Performance (3) index	Performance

كود النموذج

(Program Skills)Basic skills of program

MUP08a

(b2)Educational outcomes analyzes the relationship between the construction , function at the molecular and cellular levels, organic and ecological explaining the molecular mechanisms regulating gene expression and metabolism			
Explain the molecular mechanisms regulating metabolism and gene expression) Performance inde (1	nce	s KPIS
analyzes the relationship between the construction and function at the molecular , cellular levels, organic and ecological) Performance inde (2	Perform	indicators

النموذج	کود
---------	-----

(Program Skills)Basic skills of program

MUP08a

الكلية : التربية بالمجمعة القسم الاكاديمي : Biology البرنامج : Biology

College of education in Majmaah program:- biology

Academic department: - Biology

(b3)Educational outcomes Concludes the reasons for the relatively complex problems with th .of Biology, using various forms of information technologies and ot	_	
Comparing the different causes that lead to the emergence of the scientific problems related to biology) Performance index (1	nce indicators
Explores relatively solutions to complex problems with the knowledge of Biology, using various forms of information technologies) Performance index (2	Performa

```
كود النموذج
MUP08a
```

(Program Skills)Basic skills of program

College of education in Majmaah program:- biology

Academic department: - Biology

(b4)Educational outcomes Linking knowledge and acquiring skills , academic and professional related to the teaching of Biology	contexts	
preparing a research to link the knowledge and skills gained academic and professional contexts related to teaching Biology	Performance (1) index	tors
Apply knowledge and skills while teaching the fields of Biology	Performance (2) index	ce indicators
Show professional abilities in the field of Biology through the knowledge and skills gained academic and professional contexts	Performance (3) index	Performance

كود النموذج

(Program Skills)Basic skills of program

MUP08a

College of education in Majmaah Academic department: - Biology program:- biology

Educational outcomes c1 Take the initiative in identifying the issues and classroom' problems then propose constructive solutions in the collective and individual situations .		
Contribute to solve classroom problems during field training	Performanc e indicator (1)	Performance indicators
Propose constructive solutions to the issues and problems of the classroom by working as a team	Performanc e indicator (2)	
Analyzed and evaluated feedback from the target group	Performanc e indicator (3)	

کود النموذج (Program Skills)Basic skills of program

College of education in Majmaah program:- biology

Educational outcomes c2 Practice group's leadership in a variety of situations requiring innovative responses.		
working in groups to plan and implement actions mandated	Performanc e indicator (1)	Performance indicators
Responsible for the preparation and presentation to explain within a team or individually	Performanc e indicator (2)	

Academic department: - Biology

Academic department: - Biology

كود النموذج

(Program Skills)Basic skills of program

MUP08a

College of education in Majmaah program:- biology

Educational outcomes (c3) Contracting positive attitudes towards the teaching profession be uncovered capabilities faculty and denominated in the same objectively and is committed to ethical and professional values consistent with the nature of society It is committed to ethical values during the field training in line with the nature of society Use modern strategies to develop their teaching in the preparation of presentations	Performanc e indicator (1) Performanc e indicator (2)	Performance indicators
Follow the security and safety rules and take care of the humane treatment of all living organisms	Performanc e indicator (3)	

کود النموذج (Program Skills)Basic skills of program

MUP08a

College of education in MajmaahAcademic department: - Biologyprogram:- biologyAcademic department: - Biology

Educational outcomes (c4) Responsible for self-learning and continuing development of personal and professional using the means of finding new information or necessary to accomplish the tasks assigned to analysis methods		
Gaining self-learning skills during a field training	Perform ance indicator (1)	Performance indicators
the student develops herself as professionally and personally development through the preparation of research	Perform ance indicator (2)	
Use modern technology to accomplish the tasks assigned to it	Perform ance indicator (3)	
Looking and explores information through statistical studies		

کود النموذج (Program Skills)Basic skills of program

MUP08a

College of education in Majmaah Academic department: - Biology program:- biology

Educational outcomes (d1) Effective verbal and written communication, using the forms of the appropriate display for different issues with different recipients		
Communicate effectively verbally in writing with the recipients depending	Perform ance indicator (1)	Performance indicators
The numbers of suitable offers for different issues	Perform ance indicator (2)	

(Program Skills) Basic skills of program

كود النموذج

MUP08a

College of education in Majmaah program:- biology

Academic department: - Biology

Educational outcomes (d2) Using appropriate information and communication technologies to collect and explain the information and Implementing it in teaching situations. Perform Performance Using appropriate information and communication technologies to ance indicators collect and interpret information through research' development indicator (1) Perform Treating with some topics by using modern techniques ance indicator (2)

كود النموذج

(Program Skills)Basic skills of program

MUP08a

College of education in Majmaah program:- biology

Academic department: - Biology

Educational outcomes (d3) Determine the statistical and mathematical methods relevant with examining the issues and problems, and applying it with creative way applied in interpreting the information and propose solutions		
Investigates information about issues and problems	Perform ance indicator (1)	Performan ce indicators
Interprets the information and propose solutions to the issues and problems in panel discussions	Perform ance indicator (2)	

(Program Skills) Basic skills of program

كود النموذج

MUP08a

College of education in Majmaah program:- biology

Educational outcomes (e1) Mastered the use of tools and laboratory devices in anatomy and conduct practical experiments Perform Using tools and laboratory devices with scientifically valid way Performan ance ce indicators indicator (1) Perform Demonstrate skill in dealing with living organisms and dissect animals ance indicator (2)

کود النموذج (Program Skills)Basic skills of program

MUP08a

Academic department: - Biology

Academic department: - Biology

College of education in Majmaah program:- biology

Educational outcomes (e2) Microscopic examination and drawing sectors with scientifically valid way		
Examine microscopic sectors shown fitted with drawing	Perform ance indicator (1)	Performan ce indicators
Conducting laboratory experiments efficiently	Perform ance indicator (2)	

كود النموذج MUP09

Rubrics for assessing learning outcomes

College:- College of education in Majmaah Academic department:- Biology Program:- Biology

Learning outcomes a1: counting the integrated comprehensive knowledge of the fundamental principles and theories of biology and theories of education and learning which are necessary for professional preparation

Rubrics				
Strong (70-100)	Mediterranean (69 -40)	weak (39-0)		
She has	She has a limited knowledge of	She does not have any	The Student knows the theories of	
extensive	theories of biology and basic	knowledge of theories of	biology and basic knowledge of	
knowledge of	knowledge of biology and the	biology and basic	biology and the field of teaching	
theories of	field of teaching and learning	knowledge of biology and	and learning	
biology and		the field of teaching and		
basic		learning		Ors
knowledge on				dicat
biology and the				ce in
field of				rman
teaching and				erfo
learning				(KPIS) Performance indicators
Present scientific	Present scientific research	She can't prepare	The student prepared) к
research based	related to principles and	Researches based on	researches on the	
on the	theories of biology	scientific principles	scientific level related to	
foundations and			principles and theories of biology	
principles of				
biology				

Learning outcomes (a 2)

Find the relationship between the theories of biology, and scientific .and other professional areas related to biology

Rubrics			
Strong(70-100)	Mediterranean (69 -40)	weak(39-0)	
She has enough	she may sometimes link	she does not have the ability	Linking theories of
capacity on linking	between the theories of	to link between the theories	biology and f professional, and other scientific areas
between theories of	biology, and other scientific	of biology and other fields	tor
biology and all other	and professional fields		ndica
fields			Define the relationship between the theories of biology and scientific and professional fields
Determine the	Define the relationship	She can't able to determine	Define the relationship E between the theories E
relationship between	between the theories of	the relationship between	of biology and scientific and professional fields
biology and its' theories	biology and scientific,	biology and other sciences	Kpi's
and scientific and	professional fields as much		
professional areas	as a simple		

Learning outcomes (a3)

Classifying the latest educational and psychological developments and new research related to on finding solutions for the issues and increasing knowledge in the field of biology.

	Rubrics			
Strong (70-100)	(69 -40)	weak(39-0)		
	Mediterranean			
She did a strong	She did a weak	She did not do any	Preparing developed researches to classify the latest	
research included	research and does	research to examine	educational and psychological developments	
each new in	not explain any	the educational and		
educational and	new developments	psychological		
psychological	in educational and	developments		
developments	psychological field			
She has enough	She has a Limited	She can't able to	She applies the latest psychological and	
capacity to teach and	capacity and	teach and	educational developments thro ugh field training	tors
deliver information	continuing with	communicating		ndica
and using advanced	ineffective way	with students during		nce ii
methods of teaching	students during a	a field training		Performance indicators
	field training			Perfo
collecting information	Collaborator but	Totally uncooperative	Devise solutions on a scientific basis,	
and discussing within	not looking for	in the panel	issues and increase knowledge in the field of	
the team and	a new information-	discussions relating	biology through panel discussions	
deal positively in	related solutions	to creating scientific s		
resolving issues	of issues in the	olutions		
related to biology	field of biological			
	sciences			

Learning outcomes a4

Interprets rules and regulations of the profession, technical requirements and how to improve them according to successive changes

	(Rubrics	s)		
Strong (70-100)	(69 -40) Mediterranean	weak(39-0)		
she knows all the rules and regulations and	she knows some of the rules and	she is not familiar with any regulations and do not react in panel	Explain the rules and regulations through panel	
apply it	regulations and do	discussions	discussions	ors
	not use it			indicators
She presents proposals	She obligates to	She do not obligate rules and	obligates by rules and regulations	
to improve the	certain ones	regulations of the profession	during field training	Performance
regulation of the				Per
profession in light of				
the changes				

Learning outcomes b1

Investigates and analyzes information for the study of phenomena related to biology in addition to classroom teaching problems that faced them and use it to propose innovative solutions based on the theoretical and practical background of the relationship and take appropriate decisions

	(Rubrics)			\sim
Strong (70-100)	Mediterranean (69 -40)	weak(39-0)		
She has enough capacity to	She has a Limited	She is not able to	Facing problems of classroom teaching	
teach and deliver informatio	capacity and continuing	communicate with	effectively during applied it in field training	
n and using advanced	ineffective way with	teaching and		
methods of teaching	students	communicate with		
		students		
She presenting	She is not doing a	She does not keep	applying modern scientific methods in presenting	
modernization process and	renovation of teaching	pace with modern	scientific material	
continuous access to all that	methods	developments in		
is new modern methods in		presenting a scientific		ators
providing scientific material		material		Performance indicators
Propose innovative	She Presenting	She is not able to	Propose innovative solutions of the classroom	nance
solutions of the classroom	solutions for classroom	provide innovative	problems and take appropriate decisions	erfori
problems and take	problems	solutions and		đ
appropriate decisions		decision-making		
she has a great ability to	Trying to discuss with a	she does not work as	Analysis phenomena associated with the	
perform the work and	non-scientific analysis	a team and does not	knowledge of Biology through worksheets in	
submit it alone owns and	of phenomena related	participate with	team	
within the working group to	to biology	worksheets to analyze		
analyze the phenomena		the phenomena of		
related to biology		biology		

Analyzes the relationship between the construction , function at the molecular and cellular levels, organic and ecological explaining the molecular mechanisms regulating gene expression and metabolis

		(Rubrics)		
Strong(70-100)	Mediterranean (69 -40)	weak(39-0)		
She is able to perform experiments that explain the molecular mechanisms and	She Conducting the experiment that explain the molecular mechanisms and regulating gene	She is not able to do experiments that explain the molecular mechanisms and regulating	Conducting laboratory experiments to explain the molecular mechanisms and regulating metabolism and gene expression	
regulating metabolism gene expression and come up with results accurate	expression and metabolism, with some errors	metabolism and gene expression		
She collecting samples and figures . and know how to work in a scientific way to analyze the relationship between the construction and function in the molecular and cellular organic and ecological levels	She does not collect Samples but do not know how to work Models To analyze the relationship between the construction and function in the molecular and cellular organic and ecological levels	She may not collect samples of figurative work to analyze the relationship between the construction and function in the molecular and cellular organic and ecological levels	Collecting Samples for work-outs to analyses the relationship between the construction and function in the , cellular organic and ecological levels	Performance indicators
She is able entirely on anatomy and identify all the parts of the animals to explain the relationship between the construction and function in the molecular, cellular organic and ecological levels	She Partially able to dissect animals to explain the relationship between the construction and function in the molecular , cellular organic and ecological levels	She is not able to anatomy to analyze the relationship between the construction and function in the molecular and cellular organic and ecological levels	Having Skill to dissect animals to explain the relationship between the construction and function in the molecular and cellular , and organic and ecological levels	_
She can use a microscope perfectly to explain the molecular mechanisms regulating gene expression	She can but not with scientific way to use a microscope to explain the molecular mechanisms regulating gene expression	She cannot use a microscope to explain the molecular mechanisms regulating gene expression	Use a microscope to explain the molecular mechanisms and regulating gene expression	

Learning outcomes **b3**

Concludes the reasons for the relatively complex problems with the knowledge of Biology, using various forms of information technologies and other sources

	(Rubrics)			
Strong (70-100)	(69 -40)	weak(39-0)		
	Mediterranean			
She is able to collect and	She is able to	She is not able to	Explores relatively solutions to complex	
analyze statistical data using a	gather information	gather statistical	problems with the	
variety forms of information	and is not able to	information using a	knowledge of Biology, using various forms of	
technologies	analyzed it using a	variety forms of	information technologies	
	variety forms of	information		
	information	technologies		ators
	technologies			Performance indicators
she has an extensive ability to	She has a limited	She does not have the	Sharing with individually and group researches that	nanc
use information technology	ability to use	ability to use	are dependent on information technology to	erfori
and research work to solve	technology and	information	solve problems	đ
problems of biology	research work to	technology and		
	solve problems of	research work to		
	biology	solve problems of		
		biology		

Learning outcomes **b4**

Linking knowledge and acquiring skills, academic and professional contexts related to the teaching of Biology

	(Rubrics)			
Strong (70-100)	Mediterranean (69 -40)	weak(39-0)		
She prepared a strong research included all new to link the acquiring knowledge and skills ,academic and professional contexts related to the teaching of Biology	She prepares a weak research and not clarify anything new in link the field of acquiring knowledge and skills ,academic and professional contexts related to the teaching of Biology	She Is not prepare any research to link acquiring knowledge and skills ,academic and professional contexts related to the teaching of Biology	preparing a research to link acquiring knowledge and skills ,academic and professional contexts related to the teaching of Biology	
She has enough ability to apply knowledge and skills in teaching and communicating with students and using advanced methods of teaching	She has a limited capacity and continuing ineffective to apply knowledge and skills in teaching and communicating with students	She is not able to apply the knowledge and skills in teaching and communicating with students	Apply knowledge and skills while teaching the fields of Biology	Performance indicators
She has a great ability to perform the work and submit it alone owns and within the team	Trying to discuss in a non-scientific way	She does not possess the necessary knowledge and skills To demonstrate its professional capabilities in the field of Biology	Show professional abilities in the field of Biology through the knowledge and skills gained academic and professional contexts	Per

Educational outcomes c1

Take the initiative in identifying the issues and classroom' problems then propose constructive solutions in the collective and individual situations.

	(Rubrics)			
Strong (70-100)	Mediterranean (69 -40)	weak(39-0)		
She has an enough capacity to	She has a	She is not able to	Contribute to solve classroom problems	
teach , deliver information an	Limited capacity	teach with students	during field training	
d using advanced methods of	and continuing ineffectiv	with faculty		
teaching	ely with students			indicators
she Enjoyed with the spirit of	Sometimes , she do the	she does not do her	Propose constructive solutions to the	
the team and always does	entrusted work	entrusted work in	issues and problems of the classroom by	nance
what is a client in		team	working as a team	Performance
always, she does and review	Sometimes , she can	She does not follow	Analyzed and evaluated feedback	Ă
feedback for the target group	follow up for the target	up for the target	from the target group	
	group	group		

Educational outcomes c2

Practice group's leadership in variety situations requiring innovative responses.

	(Rubrics)			
Strong (70-100)	(69 -40) Mediterranean	weak(39-0)		
she Enjoyed with the	Sometimes , she do	she does not do her	working in groups to plan and implement	
spirit of the team and	the entrusted work	entrusted work in team	actions mandated	s
always does what is a				indicators
client in				
She, always prepare and	Sometimes , she can	She cannot prepare or	Responsible for the	nance
submit and presentation	prepare the submit	present and did not	preparation and presentation to explain	Performance
	but she cannot	responsible for the	within a team or	đ
	present it .	work among the team	individually	

Educational outcomes (c3)

Contracting a positive attitudes towards the teaching profession be uncovered capabilities faculty and denominated in the same objectively and is committed to ethical and professional values consistent with the nature of society and take care of the humane treatment for all living organisms in the field of research and laboratory

	(Rubrics)			
Strong (70-100)	(69 -40)	weak(39-0)		
She is committed to ethical values during the field training in line with the nature of society and working to spread these values	Mediterranean She is committed to ethical values during the field training in line with the nature of society	She is committed to ethical values during field training	Committed to ethical values during the field training in line with the nature of society	
She provides teaching presentation s using modern teachi ng strategies	She use some of teaching strategies	She doesn't use modern strategies in teaching	Use modern strategies to develop their teaching in the preparation of presentations	Performance indicators
She is able to perform experiments and present correct results according to the correct and safe methods and she fully capable of dealing humanly with animals ,she also does autopsy and identify all the parts	She conducting the experiment with some errors in the use of methods of security and safety and take into account as much as simple to deal with the animals and she able to do anatomy with partly way	She does not able to do practical experiments according to the correct and safe ways and she doesn't care about humane treatment in dealing with animals and doesn't able to anatomy	Follow the security and safety rules and take care of the humane treatment of all living organisms	Perfor

Educational outcomes (c4)

Responsible for self-learning and continuing development of personal and professional using the means of finding new information or necessary to accomplish the tasks assigned to analysis methods

	(Rubrics)			
Strong (70-100)	(69 -40)	weak(39-0)		
	Mediterranean			
She is able to	Gaining limited skill	She is able to	Gaining self-	
search and survey to gain new	s during a field	develop herself-	learning skills during a field	
skills during self-training	training	during field training	training	
She does a strong	She does a weak	She doesn't prepare	the student develops herself as	
research included all new	research to clarify	any research to	professionally and personally	
in the field	anything new in	develop herself	development through the	ors
of biology to develop both	the field of	professionally and	preparation of research	ndicat
professionally and	research	personally		nce ir
personally development				Performance indicators
she has enough capable to	She has a limited	She is able to	Using modern	Рец
use technology	capable to	use technology	technology to accomplish the	
to accomplish the tasks	use technology	to accomplish the	tasks assigned to her	
assigned to her	to accomplish the	tasks assigned to her		
	tasks assigned to			
	her			

Educational outcomes (d1)

Effective verbal and written communication, using the forms of the appropriate display for different issues with different recipients

	(Rubrics)			
Strong (70-100)	Mediterranean (69 -40)	weak(39-0)		
She has a capable to communicate	She communicate with verbal and written	She doesn't use verbal and written communication	Effective verbal and written communication, with	
with verbally and	ways with special kinds		different recipients	
written ways by	if recipients.			S
caring of different				dicato
learners				Performance indicators
Always, she can	Sometimes she can	She cannot prepare any	Prepare suitable presentations for	ormar
prepare	prepare presentation	presentation to solve any	different issues	Perfo
presentation to	and did not solve any	issue in biology field.		
solve all problems	important issue in			
in Biology field.	biology field .			

Educational outcomes (d2)

Using appropriate information and communication technologies to collect and explain the information and Implementing it in teaching situations .

	(Rubrics)			
Strong (70-100)	(69 -40)	weak(39-0)		
	Mediterranean			
She prepare a	She prepares a weak	She does not able to	Using appropriate	
strong research	research and doesn't	use information technol	information and communication	
according to the	explain the biology	ogy and prepare any	technologies to collect	
standards of good	phenomena	research to explain the	and interpret information through	
research		biology phenomena	research' preparation	
by using				
appropriate				
information and				ators
communication				indica
technologies in				Jance
gathering and				Performance indicators
explain				ď
information				
She able with	She is able by	She is able to solve	Treating with some	
perfect way to	partly way to solve	any issue of biology	Treating with some topics by using modern	
design work	some topics of		techniques	
papers in teaching	Biology			
situations				

Educational outcomes (d3)

Determine the statistical and mathematical methods relevant with examining the issues and problems, and applying it with creative way applied in interpreting the information and propose solutions

	(Rubrics)			
Strong (70-100)	(69 -40)	weak(39-0)		
	Mediterranean			
She is doing	She is doing a	She does not keep	Investigates the information	
constant updates	updating of her	pace with the	about issues and problems	
to their	information but in	Investigation and		
information	a non-continuous	development for		
		information		
She is able to	She is able to	She doesn't able to	Interprets the information	
			and propose solutions to the	Ors
collects and	collect	make all statically	issues and problems in panel	icat
			discussions	ind
analyses statistic	information and	information	discussions	e
data	not able to			Performance indicators
	analyze it .			Perf
She is able to	She determine	She cannot Make a	Making a comparison among	
		comparison among	statistical techniques	
collects and	some statistical	statistical techniques		
analyses statistic	techniques			
data in studying				
problems				

Educational outcomes (e1)

Mastered the use of tools and laboratory devices in anatomy and conduct practical experiments

	(Rubrics)			
Strong (70-100)	Mediterranean (69 -40)	weak(39-0)		
She afflicts a large	she has a limited knowledge of	She does not have	Using tools and	
knowledge in work	the work in the laboratory	knowledge with the	laboratory devices with	
performance and		rules of laboratory	scientifically valid way	
development within		work		
the lab				tors
She is fully able to deal	She takes care as much	She doesn't care	Demonstrate skill in	indicators
humanely with animals	as simple to deal with the	about humane	dealing with living organisms and dissect	Performance ir
and autopsy it and	animals and she is	treatment in dealing	animals during	form
identify all the parts	able partially to anatomy	with animals and	scientific lessons	Peri
		she is not able to		
		anatomy		

Microscopic examination and drawing sectors with scientifically valid way

	(Rubrics)			
Strong (70-100)	Mediterranean (69 -40)	weak(39-0)		
she draw Microscopic sector efficiently	She draw the sectors by un clear form	She cannot draw sectors through the microscope	Examine microscopic sectors shown fitted with drawing	ance ors
She Conducted laboratory experiments with high efficiency way	She is able partly, to conduct the laboratory experiments	She is not able to conduct eth laboratory experiments	Conducting laboratory experiments efficiently	Performance indicators

Program's Map

كود النموذج

MUP10

College of education in Majmaah program:- biology

Academic department: - Biology

Course' code	Prog ram' outco mes	Program' objectives	Program' Massage	College' Massage	University' Massage
CHEM 111 ,PHYS111 PHYS125 BOT 122 BOT 213, BOT 323,ZOO 312 ZOO CHEM ,221 224 126EDU412 EDU EDU216 EDU117 EDU118 EDU 217 BOT 413	A1,A2, A3,A4, B1,B2, B3, B4,C1, D2,D3, E1,E2.	Graduating a qualified students to think as creativity to teache biology for the various stages of education	Prepare A new generation of qualified graduates	Prepare qualifie d students with scientifically, educationally an d professionally	Community partnership
BOT ,BIO223 315 BIO ,BOT325 415 ZOO 322 BOT 212 ZOO 311, BIO123 BOT414 BOT BOT ,422 326	C2,C4, D1,D2	Developing co mmunication skills and creat ivity of the graduates in the research process and self- learning by using information te chnology	Equipped with scientific and practical knowled ge	Provide advanced educa tional programs	Professional Responsibility

1					пп
ZOO ZOO321,411 BIO	C3, A4	Entrench the principles and ethics in	To meet the needs and requir ements of the		Academy competition
200 ,424 313		biology teaching	labor market		
,ZOO 421 ZOO 211					
221 EDU				Build academic s ystem able to	
EDU311 322				compete in the scientific	
EDU EDU411				and educational field	
SALM101 SAL102					
103 SAL					
SAL104 ARAB101 ARAB103					
312 EDU	E1,E2,	Providing scientific environment enables	Contribute in conducting		Sophisticated research services
EDU321 BOT		the graduate to identify the scientific	researches in Biology fieldto		and advanced educational services
,314 CHEM201		concepts and results of studies on all living	develop community	Providing	
BOT222 BOT 324,		organisms and environmental studies		research and educational	
BOT,BIO 124 423 EDU 425		in the areas of the kingdom		services to serve	
,ZOO121 STAT101				community	
EDU116 STAT					

Techniques of Measuring Learning Outcomes

كود النموذج

College of education in Majmaah program:- biology

Learning outcomes	Techniques of Measuring
Collection of integrated comprehensive knowledge of the basic principles and theories of biology and theories of education and learning which are necessary for professional preparation	Research assessing, achievement and verbal tests
Find the relationship between the theories of Biology, scientific, professional and other areas related to the fields of Biology.	Study case , Report' preparation ,
The latest educational and psychological developments are classified as modern research to find solutions to the issues and increase knowledge in the field of biology	Research , field education, achievement tests
Interpretation of systems and regulations of the profession, technical requirements and how to improve them according to the successive changes.	Questionnaire
Investigates information and analysis study of phenomena related to biology in addition to classroom problems and teaching that faced them and use it to propose innovative solutions based on the theoretical and practical background which are related. And take appropriate decisions	Study case, field education , achievement tests
Analyze the relationship between the construction and in molecular, cellular, organic and ecological levels and explain the molecular mechanisms regulating metabolism and gene expression	Practical tests, paper sheet, reports
Reducing the reasons for the relatively complex problems for biology, using a variety forms of information technologies and other resources.	Achievement , oral and verbal tests, observation
Linking knowledge and skills gained academic and professional contexts related to areas of Biology teaching .	Practical tests, paper sheet , research
Take the initiative in identifying the issues and problems of classroom and propose constructive solutions in the collective and individual situations.	field education , study case, Observation , reports
Exercise group's leadership in a variety situations which require innovative responses.	field education , Practical tests, presentation

A positive attitude towards the teaching profession uncovered capabilities faculty and denominated in the same objectively and is committed to ethical and professional values consistent with the nature of society, and take into account the humane treatment of all living organisms in the field of research and laboratory	Study case, observation, presentation, practical tests.
Responsible for self-learning and continuing personal and professional development, using the means of finding new information or necessary to accomplish the tasks assigned to analysis methods	Observation , field education ,
Communicate verbally and in writing effectively, by using the forms of the appropriate display of different issues with different recipients	Observation
Appropriate information and communication technologies used in gathering and interpretation information. Implementation of the teaching situations	Researches , reports, field training
Determine the statistical and mathematical methods relevant when examining the issues and problems, and creatively applied in interpreting the information and propose solutions	Study case, reports , achievement tests , observation
Mastered the use of laboratory tools and devices in anatomy and conduct practical experiments	Practical tests , reports, observation
The renewal examination and draw a microscopic sectors with valid scientific way	Questionnaire, reports, paper sheet, practical tests, models

(X Matrix) of Program's outcomes and courses

كود النموذج MUP12

College of education in Majmaah program:- biology

Academic department: - Biology

				NÇ	QF Le				arnir ins an				utcon	ne				
		Kno	wledge	:		Cog	Cognitive Skills				Interpersonal Skills & Responsibility				munica rmation nology, erical	Psychomotor		
		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
	SALM101									X		X		X	X			
	ARAB 101				X	I				X	X	X	X	X	X			
	SALM 102	I				Ι			I			X		X	X			
	EDU 116					I		X		X	X		X	X	X			
	EDU 117	Ι		X		Ι							X	X				
	EDU118				X	Ι							X	X				
	CHEM111	X	X			X	X					X		X	X		X	
	MATH 111	X	X			X			X	X	X				X	X		
	PHYS 111	X	X			X	X						X		X		X	X
	SCOI 101			X					X		X		X	X				
	EDU126	X										İ	X	X				
	PHYS 125	X	X			X	X						X		X		X	
	ZOO 121	X	X			X	X				X	1	X		X			X
	BOT 122	X	X			X	X					X			X		X	X
ourses	BIO 123	X				X		X					X		X		X	
mo	BIO 124	X				X		X			X		X		X		X	
5	SALM104					T					X	1	X	X	X			
	EDU 216					1					1	1	X	X				
	EDU 217			X		T							X	X				
	ZOO 211	X	X			X	X					1	X		X			X
	BOT 212	X	X			X	X		İ			1	X		X			X
	BIO 213	X	X	X		X					1	1	X		X		X	
	CHEM201	X	X			1	X		1		X	1	1	X	X		X	
	ARAB 103				X					X	X	X	X	X	X			
	EDU 226	X				X				X		1	X	X				
	ZOO 221	X				X	X	X			X	1			X		X	
	BOT 222	X	X			X	X				X			X			X	
	BOT 223	X	X			1		X	X				X	X	X			X
	CHEM202	X	X			X					1	X	X		X	X	X	
	STAT101	X	X			X			1		X	X			X	X		

Program Learning Outcome

NQF Learning Domains and Learning Outcome

		Knov	nowledge Cognitive Skills							Interpersonal Skills & Responsibility				Infor Tech	municat mation nology, erical	Psychomotor		
		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
	EDU 316				X	X				X			X	X	X			
	EDU 317							X		X	X	X	X	X	X			
	ZOO 311	X				X		X					X		X			X
	ZOO 312	X	X			X	X				X		X		X		X	X
	ZOO 313	X	X			X	X				X				X		X	
	BOT 314	X	X			X	X						X		X		X	
	BOT 315	X	X			X	X			I	X		X	X			I	X
	EDU 326	X				I				X			X	X			Ι	
	EDU 327	X				X				I			X	X			Ι	
	ZOO 321	X				X	X	X		l	X				X			X
	ZOO 322	X				X		X					X		X		X	X
	BOT 323	X	X			X	X	Î		I			X	X			X	
	BOT 324	X	X			X	X						X		X		X	X
	BOT 325	X	X	X		X	X	X					X	X			1	
	BOT 326	X	X			X	X			1	X	X			X		1	
Courses	EDU 416	X				X		1		X		X	X	X				
om)	EDU 417	X				X			X				X	X				
C	ZOO 411	X				X		X					X		X			X
	ZOO 412	X	X			X	X				X				X			X
	BOT 413	X	X			X	X						X		X		X	
	BOT 414	X	X			X	X			1		1	X	1	X		1	X
	BIO 415	X	X	1	1	X	X	İ				X		X	X	1	1	
	ZOO 421	X	X		1	1	X	X			X	1	1		X	1	X	X
	BOT 422	X	X		1	X	X				X		1	X			X	
	BOT 423	X	X			X		X			X			X	X	1	X	
	BIO 424	X	X			X		X			X				X		X	
	EDU 425				X	X			X	X			X	X			1	
	ENG101				1						X		X	X	X			
	FCH101	1	X	X	X	1	-			1	X	-	X	X	X		1	
	HAF101		X	-	-		X		-		X		X	X	X	-	-	
	LHR101							1		X	X		X	X	X		1	
	VOW101					-			X	X			X	X			-	

Program Outcomes

Outcomes	code	area
Collect of integrated comprehensive knowledge of the basic principles and theories of biology and theories of education and learning which are necessary for professional preparation.	al	
Find the relationship between the theories of Biology, scientific, professional and	a2	
other areas related to the fields of Biology.		А
The latest educational and psychological developments are classified as modern	a.3	
research to find solutions to the issues and increase knowledge in the field of biology		
Interpretation of systems and regulations of the profession, technical requirements and how to improve them according to the successive changes .	a.4	
Investigates information and analysis study of phenomena related to biology in addition to classroom problems and teaching that faced them and use it to propose innovative solutions based on the theoretical and practical background which are related. And take appropriate decisions	b1	
Analyze the relationship between the construction and in	b2	
molecular, cellular, organic and ecological levels and explain the molecular		Р
mechanisms regulating metabolism and gene expression		В
Reducing the reasons for the relatively complex problems for biology, using a variety	B.3	
forms of information technologies and other resources.		
Linking knowledge and skills gained academic and professional contexts related to areas of Biology teaching .	B4	
Take the initiative in identifying the issues and problems of classroom and propose		
constructive solutions in the collective and individual situations.	c1	
Exercise group's leadership in a variety situations which require innovative responses.	c2	
A positive attitude towards the teaching profession uncovered capabilities faculty and	c.3	
denominated in the same objectively and is committed to ethical and		С
professional values consistent with the nature of society, and take into account		
the humane treatment of all living organisms in the field of research and laboratory		
Responsible for self-learning and continuing personal and professional development, using the means of finding new information or necessary to accomplish the tasks assigned to analysis methods	c.4	
Communicate verbally and in writing effectively, by using the forms of the appropriate display of different issues with different recipients	d1	D
Appropriate information and communication technologies used in gathering and	d2	

interpretation information. Implementation of the teaching situations Determine the statistical and mathematical methods relevant when examining the issues and problems, and creatively applied in interpreting the information and	d.3	
propose solutions		
Mastered the use of laboratory tools and devices in anatomy and conduct practical experiments	e1	E
The renewal examination and draw a microscopic sectors with valid scientific way	e2	

(I,R,E Matrix)of Program' outcomes and courses

College of education in Majmaah program:- Biology

Academic department: - Biology

			wledge		1		Cognitive Skills				Interpersonal Skills & Responsibility				munica mation nology, erical	_	Psychomotor		
		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	
	SALM101				_					I		I		I	I				
	ARAB 101				I					Ι	I	I	I	I	I				
	SALM 102									_		I		R	R				
	EDU 116			_				I		I	I		I	I	R				
	EDU 117			I	_								I	I					
	EDU118				I	_	_						I	I					
	CHEM111	I	I			I	I			_	_	I		I	I		I		
	MATH 111	I	I			I	_		I	I	I				I	I	_	_	
	PHYS 111	I	I			I	I						I		I		I	I	
	SCOI 101			I					I		R		I	I					
	EDU126	R											R	R					
	PHYS 125	R	R			R	R						R		R		R		
	ZOO 121	I	I			I	I				I		I		I			I	
s	BOT 122	I	I			I	I					I			I		I	I	
urse	BIO 123	I				I		I					I		I		I		
Courses	BIO 124	Ι				I		I			I		I		I		Ι		
	SALM104										Ι		Ι	Ι	Ι				
	EDU 216												R	R					
	EDU 217			Ι									R	Ι					
	ZOO 211	I	I			R	R						I		Ι			I	
	BOT 212	Ι	Ι			Ι	Ι						E		E			Ι	
	BIO 213	R	R	R		R							R		E		I		
	CHEM201	R	R				R				R			R	R		R		
	ARAB 103	I			Ι					Ι	Ι	I	I	Ι	Ι				
	EDU 226	R				R				Ι			I	R		1			
	ZOO 221	R				E	E	E			R				R		E		
	BOT 222	I	I			I	I				R			R			I		
	BOT 223	I	I					I	I			1	I	Ι	I			I	
	CHEM202	E	E		1	E	1		1			E	E		E	E	E		
	STAT101	I	I			I	+	1	-	1	R	R	+	1	R	R			

			owledg	e			nitive			& R	lespon	onal S sibility		Info Tech Nun	munic rmatio nology terical	Psychomotor		
		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
	EDU 316				R	R				R			R	R	E			
	EDU 317							R		R	E	E	R	R	R			
	ZOO 311	I				R		R	ļ				I		R			R
	ZOO 312	I	I			I	I		Ļ		R		R		R		R	R
	ZOO 313	R	R			E	E	ļ	ļ		R				R		E	
	BOT 314	R	R			R	R	-					R		R		R	
	BOT 315	R	R			Ι	I		ļ		R		R	R				R
	EDU 326	R					-	ļ	ļ	R			R	R				
	EDU 327	E				R							R	R				
	ZOO 321	E				E	E	E			E				R			E
	ZOO 322	R				R		R					E		E		E	E
	BOT 323	I	E			I	I						E	E			E	
	BOT 324	Ι	I			E	E						E		E		E	E
	BOT 325	E	E	E		E	E	E					E	E				
s	BOT 326	R	R			R	R				R	R			R			
Urse	EDU 416	E				R				E		E	E	E				
COUL	EDU 417	E				E		ļ	E				E	E				
	ZOO 411	E				E		E					E		E			E
	ZOO 412	E	E			E	E				E				E			E
	BOT 413	E	E			E	E						E		E		E	
ļ	BOT 414	E	E			R	E						R		I			R
	BIO 415	E	E			E	E					E		E	E			
ļ	ZOO 421	E	E				E	E	ļ		E				E		E	E
	BOT 422	E	E			E	E				E			E			E	
	BOT 423	E	E			E		E			E			E	E		E	
	BIO 424	E	E			E		E			E				E		E	
	EDU 425				E	E			E	E			E	E				
	ENG101										Ι		Ι	Ι	Ι			
	FCH101	Ι	I	Ι	Ι					I	Ι		Ι	Ι	Ι			
	HAF101		I				I		1		I		I	Ι	I			
	LHR101									Ι	I		I	Ι	I			
1	VOW101	1	1	1	İ	1	1	1	R	R	1	1	I	Ι	1	1	1	1

Emphasize.... (E) Reinforce... تأكيد (R) Introduce تمكين (I)

Program' Outcomes

Outcomes	code	area
Collection of integrated comprehensive knowledge of the basic principles and theories of biology and theories of education and learning which are necessary for professional preparation.	a1	
Find the relationship between the theories of Biology, scientific, professional and other areas related to the fields of Biology.	a2	А
The latest educational and psychological developments are classified as modern research to find solutions to the issues and increase knowledge in the field of biology	a.3	

Interpretation of systems and regulations of the profession technical requirements and be	o 4	
Interpretation of systems and regulations of the profession, technical requirements and how to improve them according to the successive changes .	a.4	
Investigates information and analysis study of phenomena related to biology in addition to classroom problems and teaching that faced them and use it to propose innovative solutions based on the theoretical and practical background which are related. And take appropriate decisions	b1	
Analyze the relationship between the construction and in molecular , cellular, organic and ecological levels and explain the molecular mechanisms regulating metabolism and gene expression	b2	В
Reducing the reasons for the relatively complex problems for biology, using a variety forms of information technologies and other resources.	B.3	
Linking knowledge and skills gained academic and professional contexts related to areas of Biology teaching .	B4	
Take the initiative in identifying the issues and problems of classroom and propose constructive solutions in the collective and individual situations.	c1	
Exercise group's leadership in a variety situations which require innovative responses.	c2	
A positive attitude towards the teaching profession uncovered capabilities faculty and denominated in the same objectively and is committed to ethical and professional values consistent with the nature of society, and take into account the humane treatment of all living organisms in the field of research and laboratory	c.3	с
Responsible for self-learning and continuing personal and professional development, using the means of finding new information or necessary to accomplish the tasks assigned to analysis methods	c.4	
Communicate verbally and in writing effectively, by using the forms of the appropriate display of different issues with different recipients	d1	D
Appropriate information and communication technologies used in gathering and interpretation information. Implementation of the teaching situations	d2	
Determine the statistical and mathematical methods relevant when examining the issues and problems, and creatively applied in interpreting the information and propose solutions	d.3	
Mastered the use of laboratory tools and devices in anatomy and conduct practical experiments	e1	E
The renewal examination and draw a microscopic sectors with valid scientific way	e2	

Chosen courses to measure learning outcomes

College of education in Majmaah

Academic department: - Biology

program:- biology

Learning oucomes																	course	es
	Ε			D				С				В				Α		
			T			T		T		T	T			T	T	T		
E2	E1	D3	D2	D1	C4	C3	C2	C1	B4	B3	B2	B1	A4	A3	A2	A1		
E	E			E	E		E			E	E				E	E	Rating vase plants	
	E		E			E		E	E			E			E	E	Plant Physiology	
E	E		E	E	E		E	E		E	E	E			E	E	(2) Physiology	
	E		E	E	E		E		E	E		E			E	E	Flora and Fauna Saudi Arabia	
	E		R	R	E			E		E	E	E				E	Insect (2)	
				E	E	E		E				R				E	Modern trends in teaching strategies	SES
			E	E	E				E	E		E		E	E		Research Methodology	COURSES
	E		E	E	E	E					I	E			E	I	Applied Minut Biology	
				E	E			E	E			E	E				Field education	
E	E			E	E					R	R	R			R	R	Comparative Anatomy of an animal	
E	E		E	E	E	E					E	E			E	E	embryology	
			E	R	R	E	E	R		R							Production and sources of e-learning	

												L	earni	i ng o	utco	mes		arning
	E			D				С				В				Α	outcome co	ourses
E2	E1	D3	D2	D1	C4	C3	C2	C1	B4	B3	B2	B1	A4	A3	A2	A1		
	E		E	E	E	E					E	E			E	E	Fungi and plant diseases	
I	I	E	E	E	R		E	R		R	R	R				R	Ecology	
					E					E	E	E		E	E	E	Applied to inherit	Courses
R	E		I		R			E		R	E	R			E	E	Knowledge of algae	Coi
E	E		E	Е	E		Е		E	E		E		E	E	E	Parasitology	
	E		R	R	R		R		E	E	E	E		R		R	Arthropods, molluscs and echinoderms skin	

Program' Outcomes

Outcomes	code	area
Collection of integrated comprehensive knowledge of the basic principles and theories of biology and theories of education and learning which are necessary for professional preparation .	a1	
Find the relationship between the theories of Biology, scientific, professional and other areas related to the fields of Biology.	a2	
The latest educational and psychological developments are classified as modern research to find solutions to the issues and increase knowledge in the field of biology	a.3	A
Interpretation of systems and regulations of the profession, technical requirements and how to improve them according to the successive changes .	a.4	
Investigates information and analysis study of phenomena related to biology in addition to classroom problems and teaching that faced them and use it to propose innovative solutions based on the theoretical and practical background which are related. And take appropriate decisions	b1	
Analyze the relationship between the construction and in molecular , cellular, organic and ecological levels and explain the molecular mechanisms regulating metabolism and gene expression	b2	В
Reducing the reasons for the relatively complex problems for biology, using a variety forms of information technologies and other resources.	B.3	
Linking knowledge and skills gained academic and professional contexts related to areas of Biology teaching .	B4	
Take the initiative in identifying the issues and problems of classroom and propose constructive solutions in the collective and individual situations.	c1	
Exercise group's leadership in a variety situations which require innovative responses.	c2	
A positive attitude towards the teaching profession uncovered capabilities faculty and denominated in the same objectively and is committed to ethical and professional values consistent with the nature of society, and take into account the humane treatment of all living organisms in the field of research and laboratory	c.3	С
Responsible for self-learning and continuing personal and professional development, using the means of finding new information or necessary to accomplish the tasks assigned to analysis methods	c.4	
Communicate verbally and in writing effectively, by using the forms of the appropriate display of different issues with different recipients	d1	D
Appropriate information and communication technologies used in gathering and interpretation information. Implementation of the teaching situations	d2	
Determine the statistical and mathematical methods relevant when examining the issues and problems, and creatively applied in interpreting the information and propose solutions	d.3	
Mastered the use of laboratory tools and devices in anatomy and conduct practical experiments	e1	E
The renewal examination and draw a microscopic sectors with valid scientific way	e2	

г

Timetable for measuring outcomes

College of education in Majmaah program:- biology

Academic department: - Biology

	Fourth y	ear		Third yea	ar		Seco	ond year		Firs yea			
S 3	25	15	S 3	25	15	S 3	25	15	S 3	S 2	S 1		
	A1,a2,b2,b3,c2, c4,d1,e1											Ratin g vase plant s	
		A1,a2,b1,b4,c 1,c3,d2,e1										Plant Physi ology	
	A1,a2,b1,b2,b3,									ļ		Anim	
	A1,a2,b1,b3,b4,											Flora	ses
				A1,,b1,b2,b								Insec	courses
		A1,b1,c1,c3,c										Mod	ŭ
		A2,a3,b1,b3,b 4,c4,d1,d2										Rese arch	
				A1,a2,b1,b 2,c3,c4,d1,								Meth Appli ed	
	A4,b1,b4,c1,c4,											Field	
					B3,c1,c 2,c3,c4, d1.d2							Prod uctio n	
				,A2 ,A1,B3,B2, ,B1								Com parat ive	
		D2,D1,C4,C3, A1,A2,B1,B2, E1.E2										embr yolog v	
	,D2,D1 C4,C3,A1,A2,B1 .B2.E1											Fungi and plant	
								E2,E1,D3,D2,D1 ,C4,A1,B1,B2,B 3,C1.,C2				Ecolo gy	
				A1,A2,A3,B 1,B2,B3,C3								Appli ed to inher it	

	Fourth	ו year		Third ye	ar		Second	d year		Firs yea		
S 3	25	15	S 3	25	15	S 3	25	1\$	S 3	S 2	S 1	
		A1,A2, B1,B2,B3,C1,C4 ,D1,E1,E2										Kno wled ge of
		A1,A2,A3,B1,B 3,B4,E1,E2,C2, C4,D1,D2										Paras itolo
							A1, A3,B1 ,B3,B4					Arthr opod
							,E1, ,C2,C4 ,D1,D					s, moll uscs
							2					and

summer semester (3s) $\:$ Second semester (2s) $\:$ First semester (1S) $\:$

كود النموذج MUP16

Matrix of outcomes of each courses in

program

College of education in Majmaah program:- biology

Academic department: - Biology

Course code :- CHEM111

1		Describes the thermodynamics terms
	2	Present some terms of gas - liquid - solid and their own mathematical laws
	3	Devise special cases of material laws and thermal chemistry
	4	Formulate the characteristics of the periodic table elements, depending on the electronic structure
	5	Bear the responsibility of self-learning in completing tasks and duties
	6	Choose different and distinct models to view the topics related to the course
	7	Communicate effectively within the workgroups
	8	Dealing with the tools , materials and devices laboratory in accordance with the security and safety laws in the lab

	Program learning outcomes (using outcomes codes)																
E2	E1	D3	D2	D1	C4	C3	C2	C1	B4	B3	B2	B1	A4	A3	A2	A1	
																	Course learning outcomes
															×		1
															×	×	2
												×					3
												×					4
							×										5
		×															6
				×													7
	×																8

Course code:- PHYS111

1	Know the most basic concepts in classical physics
2	Give a correctly and scientifically description for the objects movement and movements of seismic and wave
3	Differentiate between terms in classical physics
4	Verify the relevant theories related to logical mathematical conclusion
5	Responsible for self-learning and communicate effectively within the team
6	Mastered the use of the Internet to gather information in the interpretation of
	specific natural phenomena
7	Calling devices and correctly naming and dealing with care and proficiency to
	maintain the integrity of laboratory instruments
8	Representative graph of experimental results paint with more accurate and
	comparable from that the experimental results and the properly theoretical

	Pr	ogr	am	lear	nin	g oi	itco	mes	5 (u	sing	g ou	tco	mes o	code	es)		
E2	E1	D3	D2	D1	C4	C3	C2	C1	B4	B3	B2	B1	A4	A3	A2	A1	
																	Course learning
																	outcomes
																х	1
															х		2
												х					3
											х	х					4
					х		х										5
			х														6
	х																7
х	х																8

Course code:- PHYS125

1	Know the most basic concepts in classical physics
2	Give a correctly and scientifically description for the objects movement and movements of seismic and wave
3	Differentiate between terms in classical physics
4	Verify the relevant theories related to logical mathematical conclusion
5	Responsible for self-learning and communicate effectively within the team
6	Mastered the use of the Internet to gather information in the interpretation of specific natural phenomena
7	Calling devices and correctly naming and dealing with care and proficiency to maintain the integrity of laboratory instruments
8	Representative graph of experimental results paint with more accurate and comparable from that the experimental results and the properly theoretical

	Program learning outcomes (using outcomes codes)																
E2	E1	D3	D2	D1	C4	C3	C2	C1	B4	B3	B2	B1	A4	A3	A2	A1	
																	Course learning outcomes
																х	1
															х		2
												х					3
											х	х					4
					Х		Х										5
			Х														6
	Х																7
Х	Х																8

1	Recognize the installation of the plant cell and its organelles and functions
2	Comparing the steps divisions Meiosis and Mitosis
3	analyzes the results of many related problems (germination of some seeds and genetic issues
4	Mastered the Academy skills to learn and study the plant kingdom sections .
5	Express her view point with committed of ethics and listen to the other opinion
6	Use modern techniques to search about the required references to do duties and display it.
7	Take into account the precautions to be taken in the laboratory
8	Carry out laboratory experiments and draw conclusions

	Program learning outcomes (using outcomes codes)																
E4	4 E3 E2 E1 D3 D2 D1 C4 C3 C2 C1 B4 B3 B2 B1 A4 A3																
																	Course learning outcomes
																	1
																	2
														×			3
													×				4
						×				×							5
					×												6
			×														7
		×	×														8

1	Be familiar with the concept of ecology and environmental system as an integrated whole
2	Characterize the various environmental factors and their impact on biodiversity
3	Explain the various plants adapt to their environments
4	Explain the effect of interactions between the components of the environment on the structure and composition of the ecosystem
5	Classified ways that are the study of plant and animal communities
6	Respond to the collective and cooperative work and share views
7	Mastered the skill of research, analysis and information retrieval
8	Explores the tools and devices laboratory for environmental analysis and measurement

	P	rog	ram	lea	rni	ng o	outc	ome	es (usin	ig o	utco	mes	cod	les)		
E2	E1	D3	D2	D1	C4	C3	C2	C1	B4	B3	B2	B1	A4	A3	A2	A1	Course learning outcomes
			×								×					×	1
			×													×	2
			×					×								×	3
			×							×	×					×	4
		×	×	×							×	×					5
			×	×			×	×									6
×			×	×	×			×									7
×	×	×	×									×					8

1	Remember the laws that govern water relations in plants
2	Detriment major and micro mineral elements needed by the plant and the physiological roles and how to determine the absorption and transmission.
3	Explain the processes of photosynthesis and transpiration and the factors affecting the interactions of optical and non-optical path and the installation of carbon.
4	Easily distinguish between different types of lotions , its method of deposition and the mechanism of transmission across membranes
5	Comparing between the different transport processes that occur in plants
6	Show interest to respond with colleagues while doing projects and research
7	Web use in the tasks required after each lecture
8	Apply many laboratory experiments related to the course

	Program learning outcomes (using outcomes codes)																
E2	E1	D3	D2	D1	C4	C3	C2	C1	B4	B3	B2	B1	A4	A3	A2	A1	Course learning outcomes
					×						×	×				×	1
				×	×					×	×	×					2
			×	×	×						×	×				×	3
										×	×	×					4
											×	×					5
			×	×	×		×	×		×							6
×			×	×	×			×		×	×						7
×			×	×	×		×	×		×							8

1	.Explains the installation of DNA and the DNA method compounded
2	Apply Mendel's laws of inheritance on the foundations of genetic traits in different organisms.
3	Designe the genetic lineage of some genetic diseases in human history.
4	Comparing the types of sovereignty and gene interaction
5	Investigate modern information related to genetics.
6	.Fluent display and presenting in front of others
7	interested in e-learning system and its various activities.
8	Innovate in the use of models to explain the genetic concepts.

	Program learning outcomes (using outcomes codes)																
E2	E1	D3	D2	D1	C4	C3	C2	C1	B4	B3	B2	B1	A4	A3	A2	A1	Course learning outcomes
																×	1
															×		2
											×						3
									×								4
					×												5
				×													6
		×															7
×																	8

1	Describe a virtual features of the chromosome.
2	Explain models body aberrations of the human person and the ways to identify the locations of genes and painted it .
3	Devise reasons for the differences between chromosomal structural and numerical
4	Control the mutagenic substances and showing their relationship to cancer
5	Showed interest to get ready with female colleagues while doing research and
	conducting laboratory experiments.
6	Using self-learning skills and assume responsibilities.
7	Mastered of choose the models of suitable presentations.
8	Present microscopically slides attend to examine the promise
	of natural chromosomes, which have abnormality.

	Program learning outcomes (using outcomes codes)																
E2	E1	D3	D2	D1	C4	C3	C2	C1	B4	B3	B2	B1	A4	A3	A2	A1	Course learning outcomes
																×	1
															×		2
												×					3
											×						4
								×									5
					×												6
				×													7
×																	8

1	Determine the genetic consequences of inbreeding, outbreeding and hybrid .power
2	explains the types of infertility and its importance in plant breeding
3	Review the foundations of biotechnology and how it is used for human well- being
4	Assess the importance of genetic engineering to human life and the environment
5	Genetic counselling is recommended to avoid the possibility of a genetic defect in the family
6	.Uses bioinformatics to collect data on nuclear acids (DNA, RNA) and proteins
7	.Use self-learning skills and assume responsibilities
8	uses biological information rules to provide means of structural and functional analysis of molecular biology

	Program learning outcomes (using outcomes codes)																
E2	E1	D3	D2	D1	C4	C3	C2	C1	B4	B3	B2	B1	A4	A3	A2	A1	Course learning outcomes
E2	E1	D3	D2	D1	C4	C3	C2	C1	B4	B3	B2	B1	A4	A3	A2	A1	1
															×		2
														×			3
																×	4
											×						5
												×					6
										×							7
				×	×												8

1	Recognize the different types of micro-organisms and the environments in which they live
2	Classifies various microbiology activities in the field of industry, soil and water
3	Identify the beneficial microbes and microbes that cause diseases of the human, animal and plant
4	Comparing the various microorganisms that cause food spoilage and pathogenic diseases , plant and animals
5	Explain the role of genetic engineering in applied aspects of Microbiology
6	.Interact collective discussion and have a responsibility to learn self
7	.Use modern techniques to search for the required references to do duties
8	Exercise laboratory experiments to prepare food circles , isolate the various microorganisms , distinction between them and capture and evaluation results

	P	rog	ram	lea	rni	ng o	outc	ome	es ()	usin	ig oi	utco	mes	cod	les)		
E2	E1	D3	D2	D1	C4	C3	C2	C1	B4	B3	B2	B1	Α4	A3	A2	A1	Course learning outcomes
																Х	1
																	2
																	3
																	4
														Х			5
													Х				6
							Х	Х									7
					Х	Х											8

1	Recognize the basics of microbiology and science branching from it.
2	Classified bacterial groups depending on the chemical and physical factors
3	Distinguish between and Moving bacteria nonmoving bacteria
4	Compare between different species of bacteria in its look and usability to the
	different pigments
5	analyzes the results of many chemical and Physical characteristics.
6	Interact with collective discussion and have a responsibility to learn herself
7	Use modern techniques to search for the required references to the do duties
8	Exercise laboratory experiments to prepare food circles , isolate the various
	microorganisms, distinction between them and capture and evaluation results

	P	rog	ram	lea	rni	ng o	outc	ome	es (usin	ig oi	utco	mes	cod	les)		
E2	E1	D3	D2	D1	C4	C3	C2	C1	B4	B3	B2	B1	A4	A3	A2	A1	
																	Course learning
																	outcomes
																Х	1
															Х		2
															Х		3
												Х					4
												Х					5
											Х						6
					Х	Х											7
		Х	Х														8

1	Recognize the growth kinetics in the plant and determine the various factors and mechanisms to reveal the plant organs.
2	Recognize plant hormones and growth regulators and their role in plant tissue culture.
3	analyses the growth phenomenon in plant and to reveal machinery plant Members
4	Explain all movements and deviation that responds to the plant in light of the growth regulators.
5	Characterize plant tissue culture and the most important factors which are affecting it.
6	Interact with collective discussion and have a responsibility to learn herself
7	Use modern techniques to search for the required references to the do duties
8	practiced different experiences growth elsewhere in the plant organs and the effect of organizations growth of it .

	Program learning outcomes (using outcomes codes)																
E2	E1	D3	D2	D1	C4	C3	C2	C1	B4	B3	B2	B1	A4	A3	A2	A1	Course learning outcomes
																Х	1
																Х	2
										Х	Х						3
											Х						4
											Х						5
					Х	Х											6
			Х	Х													7
	Х																8

COURSE' LEARNING OUTCOMES

-

1	Recognize the scientific concept of texture and different tissue types.
2	Determine the causes of the various mutations of each tissue.
3	Find the relationship of Histological and appropriateness of internal organs in the body.
4	Comparing between different types of tissue
5	Share groups during practical lessons and completing quests.
6	Mastered dealing with useful web sites for research and access to the latest research and increase knowledge in the field of specialization.
7	Mastered the use of microscopes to examine slides , identify
•	them and distinguish between them.
8	drawing types of tissue after examined microscopically "

	Program learning outcomes (using outcomes codes)																
E2	E1	D3	D2	D1	C4	C3	C2	C1	B4	B3	B2	B1	A4	A3	A2	A1	Course learning outcomes
														Х	Х		1
														Х			2
										Х							3
										Х							4
						Х	Х										5
		Х														Х	6
Х	Х																7
Х	Х																8

1	Identify the composition of the digestive system , the nervous and muscular in animals.
2	Detriment All the functions of the digestive system , the nervous system and muscular of the animals
3	Explain the work of the digestive system , the nervous and muscular mechanism in the light of the known laws of physics and chemical
4	analyses the relationship between the installation of the digestive system , the nervous , muscular and the function of each of them
5	Show enthusiasm to go along with colleagues while doing projects and research
6	Communicate effectively through micro educational situations
7	Conduct their own laboratory experiments of the course
8	Develop skilled performance with continuously way during laboratory experiments topics scheduled

	Program learning outcomes (using outcomes codes)																
E2	E1	D3	D2	D1	C4	C3	C2	C1	B4	B3	B2	B1	A4	A3	A2	A1	Course learning outcomes
															Х	Х	1
															Х	Х	2
												Х					3
										Х	Х	Х					4
					Х		Х	Х									5
			Х	Х													6
Х	Х																7
Х	Х																8

1	Identify the composition of the cardiovascular system, respiratory , urinary and endocrine.
2	Define the functions of the cardiovascular system , respiratory , excretory and endocrine organisms
3	Explain the work of the cardiovascular system , respiratory , urinary and endocrine mechanism in the light of the known laws of physics and chemical
4	Decomposition phenomena and problems associated with the work of the cardiovascular system , respiratory , urinary and endocrine
5	Show enthusiasm to go along with colleagues while doing projects and research
6	Communicate effectively through micro educational situations
7	Conduct their own laboratory experiments of the course
8	Develop skilled performance with continuously way during laboratory experiments topics scheduled

	Program learning outcomes (using outcomes codes)																
E2	E1	D3	D2	D1	C4	C3	C2	C1	B4	B3	B2	B1	A4	A3	A2	A1	Course learning outcomes
															Х	Х	1
															Х	Х	2
												Х					3
										Х	Х	Х					4
					Х		Х	Х									5
			Х	Х													6
Х	Х																7
Х	Х																8

1	Specify the subject of research and its aim to serve learning and society
2	Prepare the integrated plan for the implementation of search and display search results clearly
3	Interpret search results
4	Present some of the solutions to the problems and recommendations of the research
5	Find liberation of the research according to scientific basis and Arabic language and characterized with smooth and clarity style
6	Show a trend towards accepting the opinions of others while doing projects and research
7	Know how to use computer technology and the Internet
8	Innovates In the appropriate presentation models to display the search

	P	rog	ram	lea	rni	ng o	outc	ome	es (usin	ig o	utco	mes	cod	les)		
E2	2 E1 D3 D2 D1 C4 C3 C2 C1 B4 B3 B2 B1 A4 A3 A2 A1															A1	
																	Course learning outcomes
															Х		1
														Х	Х		2
										Х		Х					3
										Х							4
									Х								5
					Х												6
			Х														7
			Х	Х													8

COURSE' LEARNING OUTCOMES

•

1	Explains the installation of the internal structure of the circulatory system and the nervous system in some initial chordates and vertebrates
2	Identifies all of the characteristics of the skull - the backbone - belts structure - the structure of the parties - the heart -aljhaz arterial - venous system - the brain) for each range of denominations Division chordates
3	Comparing the installation of the internal structure of the league and the nervous system and organ in various denominations chordates Division
4	concludes the reasons for the differences in the composition of the body's systems in various denominations chordates explaining their suitability for different functions
5	Take care of Sensitive live animals treatment in the laboratory
6	Mastered the skill of self-development, take responsibility and active participation in group discussions and accept the opinions of others and respond with colleagues while doing research and conducting experiments
7	Mastered the skill of using of technology and modern technology to gather information, interpret and communicate effectively with verbally and in writing ways
8	Mastered the use of instruments and laboratory equipment in the microscopic examination of sectors and anatomy lab animals in a correct scientific way and write appropriate comment on view

	P	rog	ram	lea	rni	ng o	outc	ome	es (usin	ig o	utco	mes	cod	les)		
E2	E1	D3	D2	D1	C4	C3	C2	C1	B4	B3	B2	B1	A4	A3	A2	A1	Course
																	learning outcomes
															×	×	1
															×	×	2
												×					3
										×	×						4
						×											5
					×												6
			×	×													7
×	×																8

1	Chordates Division are classified into several denominations depending on the overall qualities of each community
2	Explains the installation of the overall shape, the outer structure of the digestive tract, respiratory, urogenital in preliminary animal pregnant and some vertebrates
3	Comparing the installation of the exoskeleton, digestive, respiratory, urogenital in different chordates
4	Explain the reasons for the differences in the composition of the body's systems and their suitability for the job that you perform on the basis of scientifically valid
5	Take care of Sensitive live animals treatment in the laboratory
6	Mastered the skill of self-development, take responsibility and active participation in group discussions and accept the opinions of others and respond with colleagues while doing research and conducting experiments
7	Mastered the skill of using of technology and modern technology to gather information, interpret and communicate effectively with verbally and in writing ways
8	Mastered the use of instruments and laboratory equipment in the microscopic examination of sectors and anatomy lab animals in a correct scientific way and write appropriate comment on view

	P	rog	ram	lea	rni	ng o	outc	ome	es (1	usir	ig o	utco	omes	cod	es)		
E2	E1	D3	D2	D1	C4	C3	C2	C1	B4	B3	B2	B1	A4	A3	A2	A1	
																	Course learning outcomes
															×	×	1
															×	×	2
												×					3
										×	×						4
						×											5
					×												6
			×	×													7
×	×																8

1	Describes the histological structure of Mansell and how to configure gametes note and feminine in some vertebrates
2	Explains the stages of embryonic development (cleavage - lining - of organization) in each of the Alsuham, frog, chicken, mammals.
3	Comparing the installation and method of formation of the embryonic stages of each Alsuham, frog, chicken, mammals explaining the reasons for the difference
4	Explore the relationship between the installation of the placenta and its efficiency in various mammalian
5	Take care of Sensitive live animals treatment in the laboratory
6	Mastered the skill of self-development, take responsibility and active participation in group discussions and accept the opinions of others and respond with colleagues while doing research and conducting experiments
7	Mastered the skill of using of technology and modern technology to gather information, interpret and communicate effectively with verbally and in writing ways
8	Mastered the use of instruments and laboratory equipment in the microscopic examination of sectors and anatomy lab animals in a correct scientific way and write appropriate comment on view

	P	rog	ram	lea	rni	ng o	outc	ome	es (usin	ig o	utco	mes	cod	les)		
E2	E1	D3	D2	D1	C4	C3	C2	C1	B4	B3	B2	B1	A4	A3	A2	A1	
																	Course learning outcomes
															×	×	1
															×	×	2
												×					3
											×						4
						×											5
					×												6
			×	×													7
×	×																8

1	Describe the mechanism of digestion and output of the circulatory and mechanical breathing in insects and the reasons for the various mutations of the internal organs in different insects.
2	Explains the installation of the nervous system and nerve conduction mechanism
3	Comparing the installation of the reproductive system and methods of reproduction and transformation of the different insects
4	Explain how to constrict and relax the muscles in the insect.
5	Fluent display and dumping others in front of the presentations and educational films
6	Mastered computer technology and the use of power point, data show and access to useful web sites to increase knowledge of the contents scheduled
7	Use microscopes to examine samples , identify them and distinguish them with drawing through maintaining laboratory instruments by using the correct scientifically way.

	Program learning outcomes (using outcomes codes)																
E2	E E1 D3 D2 D1 C4 C3 C2 C1 B4 B3 B2 B1 A4 A3 A2 A1															A1	
																	Course learning outcomes
																Х	1
											Х					Х	2
										Х		Х				Х	3
											Х	Х				Х	4
			Х	Х	Х			Х									5
			Х		Х					Х							6
	Х																7

1	Recognize what is meant by flora and fauna
2	Define the citizen patterns , animal plant communities ,societies components and its economic importance in Saudi Arabia.
3	Comparing systems and installation the community of Alfona and fluoro.
4	Suggest solutions to overcome the threats facing the Flora and Fauna Kingdom
5	Surveys carried out to study the theories associated to the knowledge of flora and fauna, such as the case of the spread of certain plants and animals in the Kingdom and how to exploit economically.
6	Participate in collaborative teamwork.
7	Fluent in the use of technology in the delivery of information to others, and information such as the Internet and prepare research presentations Technology
8	Gathered plant and animal samples from the environment and classified it.

	Program learning outcomes (using outcomes codes)																
E2	E1	D3	D2	D1	C4	C3	C2	C1	B4	B3	B2	B1	A4	A3	A2	A1	Course learning outcomes
															Х		1
														Х	Х		2
								Х	Х						Х		3
								Х	Х		Х						4
									Х		Х				Х		5
				Х		Х											6
		Х	Х													Х	7
Х																	8

1	Recognize theoretically in an integrated and comprehensive way on the characteristics and classification of the people of arthropods, mollusks and echinoderms.										
2	Comparing the different sects each division with examples of each variety of animals										
3	Explains breathing , digestion , output mechanism and other vital processes in both animals , arthropod animals molluscs and echinoderms										
4	Propose innovative solutions to the problems and issues related to the course (such as environmental pollution and its impact on arthropod, molluscan fauna and Algeldchuquiat										
5	Working in a spirit of team work during practical lessons and perform tasks such as research and homework										
6	Fluent access to useful web sites for research and obtain the latest practical research and increase knowledge of the contents .										
7	Mastered the anatomy of one of the animals and learn about the internal organs and examine samples using microscopes.										

	Program learning outcomes (using outcomes codes)																
E2	E1	D3	D2	D1	C4	C3	C2	C1	B4	B3	B2	B1	A4	A3	A2	A1	
																	Course learning outcomes
																	1
										Х							2
												Х					3
											Х		Х		Х		4
						Х		Х									5
				Х	Х												6
	Х																7