ATTACHMENT 5.

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

T6. Course Specifications (CS)



Academic Accreditation & Assessment

Course Specifications

Institution King Saud university	Date 9 June 2016				
College/Department Botany and Microbiology					
A. Course Identification and General Information					
1. Course title and code: : Bot 358 Plant	Molecular C	Genetics			
2. Credit hours (2 (1 + 1)					
3. Program(s) in which the course is of					
(If general elective available in many pr	_		list programs)		
4. Name of faculty member respons	sible for th	e course			
5. Level/year at which this course is of	fered eightl	ı level			
6. Pre-requisites for this course (if any)	: Bot 2518	& Bot 253			
7. Co-requisites for this course (if any)					
8. Location if not on main campus					
9. Mode of Instruction (mark all that ap	oply)				
a. traditional classroom		What percentage?	20		
b. blended (traditional and online)		What percentage?	20		
c. e-learning		What percentage?	40		
d. correspondence		What percentage?			
f. other		What percentage?	20		
Comments:					

B Objectives

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Gene chemistry (DNA & RNA). Gene expression (Transcription and translation) and genetic code. Gene organization. Control of gene expression. Recombination of Genetic material

2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)

Usage of the net to see and to find new books and references. To look for video animation.

C. Course Description (Note: General description in the form used in Bulletin or handbook)

Course	Descri	ntion
Course	DCBCII	puon

(Note: General description in the form to be used for the Bulletin or Handbook should be attached)

1. Topics to be Covered		
List of Topics	No. of	Contact hours
•	Weeks	
Introduction to Gene chemistry(DNA & RNA).	1	1
Gene expression	2	2
Transcription and translation) and genetic code	3	3
Gene organization	3	3
Control of gene expression	1	1
Recombination of Genetic material	4	4
** Practical session	14	28

2. Course components (total contact hours and credits per semester):						
	Lecture	Tutorial	Laboratory or Studio	Practical	Other:	Total
Contact Hours	14			14(28h)pract.		
Credit						

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- 4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy
 - A brief summary of the knowledge or skill the course is intended to develop;
 - A description of the teaching strategies to be used in the course to develop that knowledge or skill;

The methods of student assessment to be used in the course to evaluate learning outcomes in

On the table below are the five NQF Learning Domains, numbered in the left column.

First, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). **Second**, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. **Third**, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. (Courses are not required to include learning outcomes from each domain.)

Code	NQF Learning Domains	Course Teaching	Course Assessment
1.0	And Course Learning Outcomes Knowledge	Strategies	Methods
1.0	Mowleage		
1.1	The genetic material that take fore of the chromosomes have the force to control the characters to living organism . chromosome change that take place in some living organism lead to raise new characters and geratic diseases	Lectures. Practical. Books reference. E-references	Practical and theorical tests Practical reports .
1.2			
2.0	Cognitive Skills		
2.1	How to collect plant sample for practical . How to use microscope . How to make slides and method of examing the sample . • How to Wright reports of practical test .	Practical works. Net usage to seek genetic teats and to look for video animation.	Grouped practical among student . Discussion of metical reports
2.2 3.0	Interpersonal Skills & Responsibility		
3.0	Interpersonal Skins & Responsibility		
3.1	Skills of grouped Work	Practical project among students	Observation of students during the practical project. Discussion of the practical project.
3.2			
4.0	Communication, Information Technology, Numerical		



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4.1	 (i) Description of the skills to be developed in this domain. Research skill in intesnet for scientific pages in genetics and cytology and relight subject . weighting skill of practicals 	Practical classes Internet communication	Theoretical and practical examination
4.2			
5.0	Psychomotor		
5.1	Not Applicable	Not Applicable	Not Applicable
5.2			

6. Schedule of Assessment Tasks for Students During the Semester				
	Assessment task (e.g. essay, test, group project, examination, speech, oral presentation, etc.)	Week Due	Proportion of Total Assessment	
1	Sessional examination	Night	20	
2	Practical examination	Fourteen	20	
3	Practical reports		10	
4	final theoretical examination		50	
5				

D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week) Office hours (4 weekly)



E Learning Resources

- 1. List Required Textbooks
- _
- 2. List Essential References Materials (Journals, Reports, etc.)
 - Cytogenetics, the chromosome in division, in heritance and evolution. 2nd. Ed. C.P.swanson, T.Mezzand W.J.young(1981). Prentice Hall, Inc
- 3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)

Molecular Biology of the Gene

4th ed., The Benjamin/Cumming Publishing, Menol Park, Calif., 1987

Schleif, R. Genetics and Molecular Biology (1985) Addison-Wesley

4. List Electronic Materials, Web Sites, Facebook, Twitter, etc.

www.chsomosome.net

http://sciencehack.com/videos/catagsy/7

http://yahoo.com- science ,biology

5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)

- 1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)
- Lecture class equipped with a Data Show

E-learning class for reviewing the course, internet communications and other numerical skills

- 2. Computing resources (AV, data show, Smart Board, software, etc.)
- 3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)

G Course Evaluation and Improvement Processes

1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching

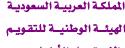
Student questionnaire to evaluate the course.

Discussion with students to develop the teaching

2 Other Strategies for Evaluation of Teaching by the Instructor or by the Department Notices of department members and others institute memberes who has relation with.

Student evolution to be done by the department

3 Processes for Improvement of Teaching



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Comparison of student results for many years back.

Comparison of student result with related courses

Developing teaching and teaching methods.

Upgrading stuff member form point e-teaching and educational and psychological background

- 4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)
 - Comparisons and statistical analysis of the students degrees within and among groups
 - Workshops and seminars with the students, colleagues and specialists

Studying the reports of self assessment and the independent reviewers reports

5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.

faculty member of a sample of student work, periodic exchange and remarking of a sample of assignments with a faculty member in another institution

Name of Instructor: Signature:	Date Report Completed:
Name of Field Experience Teaching Staff	
Program Coordinator: MONA S. ALWAHIBI	
Signature:	Date Received: 6 June 2016