ATTACHMENT 2 (e)

Course Specifications

Kingdom of Saudi Arabia

The National Commission for Academic Accreditation & Assessment

Course Specifications (CS)

Course Specifications

Institution Dammam University 19/5/2014	Date
College/Department Biology	
A. Course Identification and General Information	
1. Course title and code: Microscopic Preparations :Biol	
2. Credit hours 2 hours	
3. Program(s) in which the course is offered. Biol 201 (If general elective available in many programs indicate this programs) Bachelor of Science in Biology	rather than list
4. Name of faculty member responsible for the course A specific team from the Biology Department	
5. Level/year at which this course is offered: 4 th Level &2 ⁿ	^d Year
6. Pre-requisites for this course (if any)	
7. Co-requisites for this course (if any)	
8. Location if not on main campus	

9. Mode of Instruction (mark all that apply)	
a. traditional classroom	What percentage?
b. blended (traditional and online)	What percentage?
c. e-learning	What percentage?
d. correspondence	What percentage?
f. other	What percentage?
Comments:	
B Objectives	
1. What is the main purpose for this course?	
-This course is one of the main fundamental involved with tools and Instruments used in - The student will be able to differentiate the and Stains -The student will learn how to make smears	microtechniques. chemical reagents such as fixatives

-The student will acquire skills to prepare of Microscopic sections using paraffin,

Gelatin and Celudin

2. Briefly describe any plans for developing and improving the being implemented. (e.g. increased use of IT or web based rechanges in content as a result of new research in the field)		
-It is necessary to increase the time of lecture per week from	one to tw	o hours.
-We have to change the content as a result of new research in	this field	1
C. Course Description (Note: General description in the form handbook)	used in l	Bulletin or
Course Description:		
1. Topics to be Covered		
List of Topics	No. of Weeks	Contact hours
Tools and Instruments	1	2
Narcotization and Fixation	2	2
Types of Fixatives	3	2
Biological and natural stains	4	2
Synthetic stains	5	2

Staining of Living Cells	6	2
Staining with Hematoxylin&Eosin	7	2
Smears and Squashes	8	2
Mounting media	9	2
The Whole Mounts	10	2
Preparation of Microscopic sections using paraffin	11	2
Preparation of Microscopic sections using Gelatin	12	2
Preparation of Microscopic sections usingCelloidin	13	2
Revision	14	2

2. Course components (total contact hours and credits per semester):

	Lecture	Tutorial	Laboratory or Studio	Practical	Other:	Total
Contact Hours	1			2		3
Credit	1			1		2

3. Additional private study/learning hours expected for students per week.

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

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.)

Co de	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
#			
1.0	Knowledge		
1.1	The student will be able to diagnose the microtechniques	Power point	Periodic Exams
1.2	The student will be able touse different techniques		
2.0	Cognitive Skills		
2.1	The student will be able to collect information	Essay	
2.2	The student would be able to compare and contrast the information		
3.0	Interpersonal Skills & Responsibility		
3.1	The student will be able to collect and analysis	Analysis	
3.2		presentation	
4.0	Communication, Information Technology	, Numerical	
4.1	The student will be able to communicate with the source of information	Free Writing	
4.2	The student will be able to deal with the information technology and computer	Reflection Writing	

5.0	Psychomotor		
5.1	Activate the mental activity	Questions and discussion	
5.2			

5. Map course LOs with the program LOs. (Place course LO #s in the left column and program LO #s across the top.)

Course LOs#				Program Learning Outcomes O Code #s provided in the Program Specifications				ons)	
	1.1	1.2		2.1		3.2		4.1	
1.1									
2.1									

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	Essay	7 th	10%
2	Theoretical Mid Term Exam	8 th	20%
3	Practical Mid Term Exam	7 th	10%
4	Practical Final Term Exam	14 th	20%
5	Theoretical Final Exam	15 th	40%
6			

7			
8			
D. S	tudent Academic Counseling and Support		
cor	Arrangements for availability of faculty and teaching sultations and academic advice. (include amount ected to be available each week)		
	ery teaching staff are available four hours per week for sultations and academic advice in addition one hour		
ΕL	earning Resources		
1. I	List Required Textbooks		
	ero Techniques Editor :(El Banhawy and Ganzoury) blisher: Dar El Maharef		
2. I	ist Essential References Materials (Journals, Reports	s, etc.)	

3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)

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

Black board

5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.
Bitplane, Imaris
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.)
We need junior staff
2. Computing resources (AV, data show, Smart Board, software, etc.)
Data show is available
3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)
Cytometer

2 Other Strategies for Evaluation of Teaching by the Instructor or by the Department There is a strategy for evaluating the teaching process applied in DammamUniversity -External evaluation 3 Processes for Improvement of Teaching Forming examination committee for reviewing exams Determine the role of External evaluator 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) Practical exams Written exams Oral exams	1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching -Action plans for the next academic year
DammamUniversity -External evaluation 3 Processes for Improvement of Teaching Forming examination committee for reviewing exams Determine the role of External evaluator 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) Practical exams Written exams	
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	Written exams

5 Describe the planning arrangements for periodically reviewing course
effectiveness and planning for improvement.
effectiveness and planning for improvement.
D
Discussion
Periodic Exams