



جامعة بني سويف كلية الصيدلة وحدة ضمان الجودة

Course Specifications

se Info		Course Name: Cell Riology
	Dept.	Microbiology and Immunology
	Faculty	Pharmacy
	University	Beni-Suei

Dep	. Microbiology and Immunology							
1-Course Info.		Course Name: Cell Biology						
Code No.		Academic year/ Level: First year, First semester - MD102						
Credit hours: Le	ecture	(1) hour + Practical (1) hour						
2-Overall	- Provide concise information about the cell, from the structure and function of its							
Aim of the	components to complex life processes such as cell division and programmed cell							
Course	death.							
	- Give detailed information about how cells communicate with one another an							
	tissues, organs and ultimately whole organisms.							
	- Prepare students for further study of advanced courses in the field of cli							
pharmacy that need cell biology as prerequisite.								
		mes of the course (ILOs)						
a. Knowledge	- Fundamer	ntals of cell concept & biochemical phenomena.						
and	- Importanc	ce of the cell theory as applicable basis for the modern cell biology.						
understanding	- Importance of biochemical features that distinguish prokaryotes from eukaryotes and plants from animals and biological and material Analysis.							
	biochemical mechanisms processes and an appreciation of the breadtell biology.	th of						
	- Relation of biochemistry to cell structure and function.							
	- Principles of genetics underlie much of the basis of modern molecular biology.							
	- Mechanisms of the key metabolic reactions involved in the biochemical processes and the relation of biochemistry to cellular and organismal processes.							
	- A range of critical, analytical and transferable skills applicable to further study and to suitable career paths.							
	to comple	skills by applying laboratory and/or field-based methods and technic ement and support subject-based theoretical knowledge. y to integrate theoretical knowledge and practical skills.	pport subject-based theoretical knowledge.					
b. Intellectual		to apply subject-specific theories.						
Skills	- Knowing how to integrate several lines of subject-specific evidence & to formulate							
	and test hypotheses.							
		how to integrate the theory with practical work.						
c. Professional		dling of chemical/pharmaceutical materials.						
and Practical	, , , , , , , , , , , , , , , , , , ,							
Skills	- Apply appropriate practical techniques to the solution of biochemic							
	development and processing problems.							
	- Plan and conduct various forms of research for essays and projects involving							
sustained independent enquiry. d Prepare, process and interpretation the data, using appropriate qua								
General and		- Prepare, process and interpretation the data, using appropriate qualitative and quantitative techniques.						
Transferable	esponsibility for self-managed learning and personal/professi	ional						
Skills	ment.	. Onui						
		imerical and statistical problem-solving skills.						
L	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	minima dia bandaran problem borting diting.						

University of Beni- Suef College of Pharmacy Quality Assurance Unit





جامعة بني سويف كلية الصيدلة وحدة ضمان الجودة

	- Recognize the applicability of biochemistry to the careers to which they will					
4-Course Contents	progressing Topic		No. of hours	Lecture	Tutorial/ Practical	
- Cell biology Chemistry of the Cell componen			1	1	-	
		he cell.	1	1	1	
			1	1	1	
	- Membranes.		2	2	2	
	- Genetic mater	ials.	1	1	1	
	- Metabolism.		3	3	2	
	- Cell communi	cation.	1	1	-	
	- Cell cycle.		2	2	1	
	- Cancer/cell de	eath (apoptosis).	2	2	1	
6- Teaching and le	earning Methods for	-Lectures -Practical and tutorial periods -Office hours				
Handicapped						
7- Student Assessr						
a-Methods	 Sheet Exam. to assess progress of students Practical Exam. to assess ability for distinguishing Final written & oral Exam. to assess overall understanding of the course 					
b- Assessment	- Assessment 1 Pr	e and post lab quizzes	Every	week.		
Schedule	- Assessment 3 P	neet examsractical examnal exam	Week 13			
c- Weighting of	- Mid-term examina					
Assessment	- Final-term examina	ation	65%			
Marks - Practical examinati		ion	15%			
	- Semester work		10%			
	Total		100%			
8-List of Referen	ces					
a.Notes		Lecture notes in Cell Biology and practical manual by staff members.				
b.Mandatory Bo	oks	Molecular cell biology 4 th ed.				
c.Suggested Book	ζS	Molecular biology of the cell 4 th ed.				
d.Journals	_ :	http://micro.magnet.fsu.edu/cells.html				
		http://risscience.blogspot.com/2009/09/grade-6-cell.html				
Course Coord	linators: Sameh Abdel	lGhani				
Head of depar	rtment:					
-				• • • • • • • • • • • • • • • • • • • •		
Date:						