

<p>12. Student's obligation The role of student and their obligation throughout the academic year include: Quizzes Seminar Monthly Examination Final Examination</p>	
<p>13. Forms of teaching Lectures, Presentation, Seminar, Exam</p>	
<p>14. Assessment scheme</p>	
<p>15. Student learning outcome: Identify and explain a variety of cellular components Understand why and how the light microscope and electron microscope are used in biology Identify membrane-bound organelles found in eukaryotic cells Demonstrate familiarity with various components of the cytoskeleton. Demonstrate familiarity with various cell surface specializations Describe and explain the structure and function of membranes Describe the structure and function of membranes, especially the phospholipid bilayer Distinguish between passive and active transport; explain how substances are directly transported across a membrane Describe the primary mechanisms by which cells import and export macromolecules Identify the main components of a signal transduction pathway Differentiate between different types of signals Describe how a cell propagates a signal Describe how a cell responds to a signal Describe how a cell responds to a signal</p>	
<p>16. Course Reading List and References: 1- Alberts, B., Johnson, A., Lewis, J., Raff, M., Roberts, K. and Walter, P. (2002) Molecular Biology of the Cell (4th edn), Garland Science, New York. 2- Alberts B, Bray D, Johnson A et al. (1997) Essential Cell Biology. London: Garland Publishing. 3- General · Celis JE (ed) (1998) Cell Biology: A Laboratory Handbook, 2nd edn. · Lacey AJ (ed) (1999) Light Microscopy in Biology: A Practical Approach, 2nd edn.</p>	
17. Topics Program	Lecture's Name
Week 1: Introduction to Cell Biology	
Week 2: Cell Organelle Structure and Function	
Week 3: Transport Across Cell Membrane	
Week 4: Cell Connection	

Week 5: Cell Cycle and Division	
Week 6: Signalling Molecules	
Week 7: Cellular Receptors	
Week 8: Cells in Motion	
Week 9: Cellular change and adaptation	
Week 10: Cell Death	
Week 11: Stem cells	
Week 12: Cancer Cells	
18. Grading procedure Seminar Presentation= 10 Scientific Report= 10 Quiz= 5 Activity= 5 Midterm Examination= 20 Final Examination= 50 Total Score= 100	
19. Examinations: Quiz Midterm Examination Final Examination	

20. Extra notes:

21. Peer review *

* Must have permission of the Scientific and Higher Education Committee