



**University of Nicosia, Cyprus**

<b>Course Code</b>	<b>Course Title</b>	<b>ECTS Credits</b>
BISC-523	Pathological Basis of Disease	8
<b>Department</b>	<b>Semester</b>	<b>Prerequisites</b>
Life and Health Sciences	Fall	None
<b>Type of Course</b>	<b>Field</b>	<b>Language of Instruction</b>
Required	Biomedical Sciences	English
<b>Level of Course</b>	<b>Year of Study</b>	<b>Lecturer</b>
2 <sup>nd</sup> Cycle	1 <sup>st</sup>	Felekkis Kyriakos
<b>Mode of Delivery</b>	<b>Work Placement</b>	<b>Co-requisites</b>
Face to Face	N/A	None

**Objectives of the Course:**

The aim of this course is to provide students with the basic information about structural changes in cells and tissues during different human diseases:

The specific objectives of the course are:

- To present the theory and application of various cellular changes and adaptations in human diseases
- To promote students' understanding of the process of inflammation and fibrosis and their relationship to pathologic conditions
- To increase awareness of the methods and techniques used in pathology.
- To empower students to acquire and apply information and knowledge to human diseases

**Learning Outcomes:**

On completion of this course, the student will be able to:

1. Define the etiology, pathogenesis and pathologic manifestation of diseases
2. Explain normal physiological processes and symptoms of illnesses at the level of cell and to develop basic concepts and principles in patient care
3. Define concepts of cellular pathology such as cell injury, cell death, adaptations and ageing
4. Define the inflammation and repair
5. Describe the basic features of Genetic disorders
6. Describe the basic features of Immunological and Infectious diseases
7. Describe the process of Neoplasia
8. Describe the basic features of diseases of infancy and childhood

### Course Contents:

1. Introduction to Pathology
2. Cell injury and cell death
3. Cellular adaptations, intracellular accumulations and cell ageing
4. Inflammation (acute vs chronic)
5. Fibrosis
6. Hemodynamic disorders, thrombosis and shock
7. Neoplasia
8. Genetic diseases
9. Diseases of the immune system
10. Infectious diseases
11. Disorders of childhood
12. Environmental and nutritional pathology

### Learning Activities and Teaching Methods:

Lectures; problem based learning, poster and/or oral presentations. The lecturer will be introducing each topic through lectures and problem based learning sections with individual tasks related to data analysis.

### Assessment Methods:

Assignments, Presentations, Tests and Mid-term Exam/Paper; Final Exam

### Required Textbooks/Reading:

Authors	Title	Publisher	Edition	ISBN
Kumar V., Abbas A.K., Aster J.C	Robbins Basic Pathology	Elsevier Sciences	9 <sup>th</sup> Edition (2012)	<b>ISBN-10:</b> 1437717810 <b>ISBN-13:</b> 978-1437717815

### Recommended Textbooks/Reading:

Authors	Title	Publisher	Edition	ISBN
Finlayson C., Newell B.	Pathology at a glance	Wiley- Blackw ell	1 <sup>st</sup> Edition (2009)	<b>ISBN-10:</b> 1405136502 <b>ISBN-13:</b> 978-1405136501
Goljan E.F.	Rapid Review in Pathology	Elsevier Sanders	4 <sup>th</sup> Edition (2013)	<b>ISBN-10:</b> 0323087876 <b>ISBN-13:</b> 978- 0323087872