

Course Description Form

1. Course Name:					
Pathophysiology (Theoretical+ Practical)					
2. Course Code:					
Phcls22_313					
3. Semester / Year:					
1 st Semester/3 rd year					
4. Description Preparation Date:					
01/9/2023					
5. Available Attendance Forms:					
Students' signature on attendance sheet					
6. Number of Credit Hours (Total) / Number of Units (Total)					
3 hours Theoretical + 2 hours Practical (75) /4 units					
7. Course administrator's name					
Theoretical					
Lecturer Dr. Ahmed Mohammed Ibrahim Email: drahmedmias@uomosul.edu.iq Name: Assist. Prof Dr. Abdulla Aqeel Altayyar Email: abdulla.a.ahmad@uomosul.edu.iq Assist. Lecturer Omar Bassam Agha Email: Patho.omar@uomosul.edu.iq					
Practical					
Lecturer Dr. Ahmed Mohammed Ibrahim Email: drahmedmias@uomosul.edu.iq Name: Assist. Prof Dr. Abdulla Aqeel Altayyar Email: abdulla.a.ahmad@uomosul.edu.iq Assist. Lecturer Omar Bassam Agha Email: Patho.omar@uomosul.edu.iq					
8. Course Objectives					
Course Objectives The course identifies the basic knowledge ab important diseases at the cellular level		<ul style="list-style-type: none"> This course enables the students to understand principles of basic and systemic pathophysiology including cell injury, inflammation, tissue repair and cardiovascular, renal, respiratory, gastrointestinal, endocrine, reproductive, rheumatological, and immune disorders. 			
9. Teaching and Learning Strategies					
Strategy		Lecturing Seminars Quiz Practical laboratory demonstrations of macroscopic and microscopic pictures.			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3+2	Cell injury and tissue response; Inflammation and Repair	Overview of syllab	Theoretical lectures. Laboratory experiments	Paper-based exams

2	3+2	Cell injury and tissue response	Cell injury and tissue response	Theoretical lectures. Laboratory demonstration.	Paper-based exams
3	3+2	Inflammation and Repair	Cell injury and tissue response	Theoretical lectures. Laboratory demonstration.	Paper-based exams
4	3+2	Disorders of cardiovascular system: Hemodynamic disorders; Hypertension; Coronary heart disease; Rheumatic heart disease; Heart failure	Disorders of cardiovascular system	Theoretical lectures. Laboratory demonstration.	Paper-based exams
5	3+2	Disorders of the renal system: Disorders of glomerular functions; Diabetic glomerulosclerosis; Pyelonephritis; Drug related nephropathies; Acute renal failure; Chronic renal failure; Kidney stones	Disorders of renal system	Theoretical lectures. Laboratory experiments.	Paper-based exams
6	3+2	Disorders of adrenal function: Adrenal cortical insufficiency; Congenital adrenal hyperplasia; Cushing syndrome; Pheochromocytoma	Disorders of the central nervous system	Theoretical lectures. Laboratory demonstration.	Paper-based exams
7	3+2	Disorders of respiratory system: Common Cold & Flu; Pneumonias; Bronchial asthma; COPD; Cystic fibrosis; Tuberculosis	Disorders of respiratory system	Theoretical lectures. Laboratory demonstration.	Paper-based exams
8	Mid-term exam				
9	3+2	Diabetes mellitus and metabolic syndrome	Disorders of the endocrine system	Theoretical lectures. Laboratory demonstration.	Paper-based exams

10	3+2	Disorders of thyroid function: Hypothyroidism (Hashimoto thyroiditis); Hyperthyroidism (Graves's disease)	Disorders of the endocrine system	Theoretical lectures. Laboratory demonstration.	Paper-based exams
11	3+2	Metabolic and rheumatic disorders of skeletal system: Osteoarthritis; Rheumatoid arthritis; Osteoporosis; Osteomalacia and rickets; Gout	Disorders of the skeletal system	Theoretical lectures. Laboratory demonstration.	Paper-based exams
12	3+2	Disorders of GI and hepatobiliary systems: Peptic ulcer; GERD; Irritable bowel syndrome; Inflammatory bowel diseases; Diarrhea; Celiac disease; Viral hepatitis; Liver cirrhosis; Liver failure; Cholelithiasis	Disorders of GI and hepatobiliary systems	Theoretical lectures. Laboratory demonstration.	Paper-based exams
13	3+2	Alteration in immune response: Hypersensitivity disorders; Autoimmune disease; Transplantation immunopathology	Disorders of immune responses	Theoretical lectures. Laboratory demonstration.	Paper-based exams
14	3+2	Helicobacter spp; Bordetella pertussis; Treponema pallidum (Spirochetes); Yersinia pestis; Pasteurella multocidae.	neoplasia	Theoretical lectures. Laboratory demonstration.	Paper-based exams

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Students' seminars**11. Course Evaluation**

- 25 M Theoretical assessment; (paper-based mid-term exam + quiz)
- 25 M practical assessment (attendance + quiz + + seminars)
- 50 M paper-based theoretical final exam

 100 M total
12. Learning and Teaching Resources

Required textbooks	1. Essentials of Pathophysiology: Concepts of Altered States (Fourth Edition) by Carol Porth PhD (2014)
Main references (sources)	1. Robbins Basic Pathology 10th Edition March 8, 2017. Editors: Vinay Kumar, Abul Abbas, Jon Aster
Electronic References, Websites	https://youtu.be/UP1aZKQjINo