

Course Description Form

1. Course Name: Systemic physiology					
2. Course Code:					
3. Semester Tow / Year:1-2 2025/2026					
4. Description Preparation Date:2025-2026					
5. Available Attendance Forms: Daily attendance					
6. Number of Credit Hours (Total) / Number of Units 2 Hours (Total) 30 week					
7. Course administrator's name (mention all, if more than one name)					
name: Mahdi Abd Al khudur Ali email : X_ray@moheer.gov.iq					
Course Objectives .8					
Course Objectives		This course includes a description of functional physiology, the purpose of its study, the philosophy of its teaching. The course aims to study the normal functions of human body systems and the physiological mechanisms responsible for maintaining life and body balance. It focuses on the functions of major body systems such as the nervous, cardiovascular, respiratory, digestive, endocrine, muscular, and sensory systems, as well as the relationship between organs and their coordinated activities. The course also emphasizes the importance of physiology in understanding normal body functions, disease mechanisms, medical diagnosis, and healthcare applications.			
9. Teaching and Learning Strategies					
Strategy		<ol style="list-style-type: none"> 1. Education Strategy Collaborative Concept Planning 2- Brainstorming education strategy. 3. Education Strategy Notes Series 4- Presentation, training, discussion research and reports 			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Knowledge	Physiology of cardiovascular system: Components of CVS and their functions	Use the whiteboard display	Daily exam and oral questions

			Systole, diastole, peripheral resistance.		
2	2	Knowledge	Physiology of Respiratory system: Pulmonary ventilation, elastic recoil, pressure changes during inspiration and expiration, pulmonary volumes, alveolar ventilation, respiratory control centers, factors influence breathing	Use the whiteboard display	Daily exam and oral questions
3	2	Knowledge	Physiology of Digestive system: stomach, gastric juice, regulation of stomach secretion, inhibition of secretion by nervous system, small intestine secretion	Use the whiteboard display	Daily exam and oral questions
4	2	Knowledge	Physiology of Pancreas and small and large intestine: pancreatic juice contains and function , regulation of pancreatic secretion, duodenum function , intestinal juice contents, large intestine	Use the whiteboard display	Daily exam and oral questions
5	2	Knowledge	Physiology of liver and gallbladder: liver functions, gallbladder function	Use the whiteboard display	Daily exam and oral questions
6	2	Knowledge	Physiology of renal system: Parts of urinary system, function of urinary system, urine formation process, glomerular filtration	Use the whiteboard display	Daily exam and oral questions

7	2	Knowledge	Selective process of urine formation: Tubular reabsorption, Regulation of urine concentration and volume, tubular secretion,	Use the whiteboard display	Daily exam and oral questions
8	2	Knowledge	Micturition:Micturition reflex regulation and urination	Use the whiteboard display	Daily exam and oral questions
9	2	Knowledge	Female reproductive system:Puberty in females, menstrual cycle, menopause, female fertility and pregnancy	Use the whiteboard display	Daily exam and oral questions
10	2	Knowledge	Male reproductive system:Function, testosterone, puberty in males, regulation of male reproduction system, hormonal and neural mechanisms	Use the whiteboard display	Daily exam and oral questions
11	2	Knowledge	Physiology of nervous system:General organization , CNS, PNS, nerve fiber, brain parts, brainstem function, cerebrum function, nerve impulses, action potential, relax Arc, Motor system: Sensory system	Use the whiteboard display	Daily exam and oral questions
12	2	Knowledge	Tract of spinal cord: Descending, ascending, intersegmental	Use the whiteboard display	Daily exam and oral questions
13	2	Knowledge	Physiology of spinal cord sections: Hemi section and complete section	Use the whiteboard display	Daily exam and oral questions
14	2	Knowledge	Endocrine control mechanism: Adrenal gland hormones role and function	Use the whiteboard display	Daily exam and oral questions

15	2	Knowledge	Endocrine control mechanism: Pituitary gland hormones role and function	Use the whiteboard display	Daily exam and oral questions
16	2				
17	2				
18	2				
19	2				
20	2				
21	2				
22	2				
23	2				
24	2				
25	2				
26	2				
27	2				
28	2				
29	2				
30					

11. Course Evaluation

5 marks are calculated on reports
5 points are calculated on daily exams
5 degrees are calculated on the daily preparation
And the rest of the grade is for the monthly exams

12. Learning and Teaching Resources

Guyton and Hall Textbook of Medical Physiology – John E. Hall

Biology Books

Human Physiology: From Cells to Systems – Lauralee Sherwood

Curriculum scheduled within the sectoral committees

Principles of Anatomy and Physiology – Gerard J. Tortora & Bryan Derrickson	Medical Physiology – Boron & Boulpaep
Review of Medical Physiology – Ganong	Color Atlas of Physiology – Stefan Silbernagl & Florian Lan