Course Description Form

1. Course Name:
Physiology II (Theoretical+ Practical)
2. Course Code:
Phpht25 2212
3. Semester / Year:
Second semester/2025-2026
4. Description Preparation Date:
01/9/2025
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
Assist. Prof Dr. Abdulla Aqeel Altayyar Email: abdulla.a.ahmad@uomosul.edu.iq Lecturer Dr. Mohammed Abdulkareem Younes Email: mohammed-78@uomosul.edu.iq Lecturer Ahmed Hikmat Email: ahmed.alhamdany@uomosul.edu.iq Assist. Lecturer Louay Alchalaby Email: loayalchalaby@uomosul.edu.iq
8. Course Objectives

Course Objectives The course identifies the basic knowle about the physiology of Circulatory body flu Endocrinology and Gastrointestinal system.	This course enables the students to understand principles of physiology including blood, lym immunity, different glands (hypothalamus, pituita thyroid, parathyroid, adrenal, pancreas) gastrointestinal system.

9. Teaching and Learning Strategies	
Strategy	Lecturing Seminars Quiz Practical laboratory demonstrations of physiological investigations and experiments in different subjects of physiology.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3+2	Circulatory body fluid: Introduction; blood; bone marrow	A1 student to learn the body fluids. A2 student to understand role of bone marrow & its effects on body fluids.	Theoretical lectures. Laboratory experiments	Paper-based exams
2	3+2	White blood cells; immunity; Platelets; red blood cells;	A2 student understand the role Of blood cells. B1 student specify the cause of difference in immunity to disease.	Theoretical lectures. Laboratory demonstration.	Paper-based exams

3	3+2	Anemia; polycythemia Blood group and Rh factor; hemostasis:	A1 student to learn the types of anemia. A2 student to explain thedifference between different blood groups.	Theoretical lectures. Laboratory demonstration.	Paper-based exams
4	3+2	The clotting mechanism / blood coagulation tests Anti-clotting mechanism; the plasma	A1 student to learn the process blood clotting.	Theoretical lectures. Laboratory demonstration.	Paper-based exams
5	3+2	The lymph; abnormalities of hemostasis	A1 student to learn the the role of ltmphatic system. C1 student able to give advise patient suffering from bleeding abnormalities.	Theoretical lectures. Laboratory experiments.	Paper-based exams
6	3+2	Digestion and absorption of carbohydrates; proteins; lipids; absorption of water and electrolytes; vitamins and minerals	A1 student to learn the the of digestive system. A2 student tounderstand The factors affecting the absorption of water and electrolytes; vitamins and minerals.	Theoretical lectures. Laboratory demonstration.	Paper-based exams
7	3+2	regulation of gastrointestinal function: Introduction; gastrointestinal hormones; mouth and esophagus; stomach	A1 student to learn the factors affectind digestive system functions. A2 student to explain the functions of mouth, Esophagus & stomach.	Theoretical lectures. Laboratory demonstration.	Paper-based exams
8		exocrine portion of the pancreas; liver and biliary system; small intestine; colon	A1 student to learn the benefit of liver and biliary system; small intestine; colon B1 student specify the exocrine function of the pancreas & its effect on digestion .	Theoretical lectures. Laboratory demonstration.	Paper-based exams
	Mid-term exam				
9	3+2	Introduction; energy balance, metabolism and nutrition.	A1 student to learn the role of metabolism and nutrition.	Theoretical lectures. Laboratory demonstration.	Paper-based exams
10	3+2	the pituitary gland	A1 student to learn the parts Of the pituitary gland .	Theoretical lectures.	Paper-based exams

			B1 student specify the role of each parts & its effects on maintaing the internal enviroments.	Laboratory demonstration.	
11	3+2	the thyroid gland	A1 student to learn the Functions of the thyroid gland. A2 student to explain the factors affecting functions of t thyroid gland.	Theoretical lectures. Laboratory demonstration.	Paper-based exams
12		Parathyroid gland;calcium metabolism	A1 student to learn the parts Of the parathyroid gland . B1 student specify the role Of Parathyroid gland in regulation of calcium metabolism.	Theoretical lectures. Laboratory demonstration.	Paper-based exams
13	3+2	the gonads: development and function of the male reproductive system	A1 student to learn the parts Of gonads . B1 student specify the role Of each parts & its role on function of the male reproductive system .	Theoretical lectures. Laboratory demonstration.	Paper-based exams
14	3+2	the gonads: development and function of the female reproductive system	A1 student to learn the parts Of gonads . B1 student specify the role Of each parts & its role on function of the female reproductive system .	Theoretical lectures. Laboratory demonstration.	Paper-based exams
15	3+2	endocrine functions of the pancreas and regulation of carbohydrate metabolism	A2 student understand the Role pancreas in endocrine functions. B1 student specify role Of Pancreas in regulation of carbohydrate metabolism.	Theoretical lectures. Laboratory demonstration.	Paper-based exams

11. Course Evaluation

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

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  Total 100 M

12. Learning and Teaching Resources

Required textbooks	Textbook of Medical Physiology by Guyton AC; latest edition
Main references (sources)	• Vander_s Human Physiology; latest editi • Ganong's review of medical physiolo latest edition