

## Course Description Form

1. Course Name:	
Physiology II (Theoretical+ Practical)	
2. Course Code:	
Phpht22_2212	
3. Semester / Year:	
2 <sup>nd</sup> Semester/2 <sup>nd</sup> 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	
Assist. Prof Dr. Abdulla Aqeel Altayyar Email: <a href="mailto:abdulla.a.ahmad@uomosul.edu.iq">abdulla.a.ahmad@uomosul.edu.iq</a> Lecturer Dr. Mohammed Abdulkareem Younes Email: <a href="mailto:mohammed-78@uomosul.edu.iq">mohammed-78@uomosul.edu.iq</a> Lecturer Ahmed Hikmat Email: <a href="mailto:ahmed.alhamdany@uomosul.edu.iq">ahmed.alhamdany@uomosul.edu.iq</a> Assist. Lecturer Louay Alchalaby Email: <a href="mailto:loayalchalaby@uomosul.edu.iq">loayalchalaby@uomosul.edu.iq</a>	
Practical	
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8. Course Objectives	
<b>Course Objectives</b> The course identifies the basic knowledge about the physiology of Circulatory body fluids, Endocrinology and Gastrointestinal system.	This course enables the students to understand principles of physiology including blood, lymph, immunity, different glands (hypothalamus, pituitary, thyroid, parathyroid, adrenal, pancreas) and gastrointestinal system.
9. Teaching and Learning Strategies	
<b>Strategy</b>	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	Physiology of circulatory body flu	Theoretical lectures Laboratory experiments	Paper-based exams
2	3+2	White blood cells; immunity; Platelets; red blood cells;	Physiology of circulatory body flu	Theoretical lectures Laboratory demonstration.	Paper-based exams
3	3+2	Anemia; polycythemia Blood group and Rh factor; hemostasis:	Physiology of circulatory body flu	Theoretical lectures Laboratory demonstration	Paper-based exams
4	3+2	The clotting mechanism / blood coagulation tests Anti-clotting mechanism; the plasma	Physiology of circulatory body flu	Theoretical lectures Laboratory demonstration	Paper-based exams
5	3+2	The lymph; abnormalities of hemostasis	Physiology of circulatory body flu	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	Physiology of Gastrointestinal system	Theoretical lectures Laboratory demonstration	Paper-based exams
7	3+2	Regulation of gastrointestinal function: Introduction; gastrointestinal hormones; mouth and esophagus; stomach	Physiology of Gastrointestinal system	Theoretical lectures Laboratory demonstration	Paper-based exams
8	<b>Mid-term exam</b>				
9	3+2	Exocrine portion of the pancreas; liver and biliary system; small intestine; colon	Physiology of Gastrointestinal system I	Theoretical lectures. Laboratory demonstration.	Paper-based exams

10	3+2	Introduction; energy balance, metabolism and nutrition; the pituitary gland	Endocrinology	Theoretical lectures. Laboratory demonstration.	Paper-based exams
11	3+2	The thyroid gland	Endocrinology	Theoretical lectures Laboratory demonstration	Paper-based exams
12	3+2	The gonads: development and function of the male reproductive system	Endocrinology	Theoretical lectures Laboratory demonstration	Paper-based exams
13	3+2	The gonads: development and function of the female reproductive system	Endocrinology	Theoretical lectures Laboratory demonstration	Paper-based exams
14	3+2	Endocrine functions of the pancreas and regulation of carbohydrate metabolism	Endocrinology	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

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 100 M total
**12. Learning and Teaching Resources**

Required textbooks	Textbook of Medical Physiology by Guyton AC; latest edition
Main references (sources)	<ul style="list-style-type: none"> <li>• Vander_s Human Physiology; latest edition</li> <li>• Ganong's review of medical physiology latest edition</li> </ul>
Electronic References, Websites	<a href="https://youtu.be/qghzLR5JUBE">https://youtu.be/qghzLR5JUBE</a>