Course plan

Year: 2023-2024	Semester: First Second	Number of students: 20
Major: MD	Basic sciences Physiopathology	Department: Physiology
Course Title: Practical Physiology	Theoretical Practical	Credit: 0.8
Prerequisite: none	Day & Time: Wednesday, 8-10 A.M.	Place: physiology 1 department
Instructor: Dr. Ghasemi	Office address: School of Medicine, Department of physiology(1)	Tel: 031-3792 9014
Email: ghasemi.m.ph@gmail.com	Response Hours and Days: 13-16 p.m Wednesday	Student representative name and mobile number:

Main objective: Provide a practical aspect to some of the physiological concepts learned during common lectures and allow students to have experiences that enhance their understanding of physiological concepts.

Specific objects:

- 1- Practical physiology of blood (Hct and Hb measurement)
- 2- Practical physiology of Cardiovascular system (ECG and Blood pressure)
- 3- Practical physiology of Respiratory system(Spirometer)
- 4- Practical physiology of Nervous system (Spinal reflexes, Auditory and Vision tests)
- 5- Practical physiology of gastrointestinal system (Carbohydrates digestion)
- 6- Practical physiology of Endocrine system (glucose tolerance test)
- 7- Practical physiology of Urinary system (Tm calculation for Glucose)

References (Text books):

- 1- Guyton and Hall Textbook of Medical Physiology, (The up-to-date version of the book)
- 2- Practical Physiology for International medical students
- 3- Power point presentation

Student evaluation and the value related to each evaluation:

(The assessment tools that will be used to test student ability to understand the course material and gain the skills and competencies stated in learning outcomes)

ASSESSMENT TOOLS	From
Class activities and quiz	5
Final Exam (Written and Multiple-choice questions)	15
TOTAL MARKS	20

Students' responsibilities:

- 1- Study the topics before and after the class
- 2- Observe the class order and rules
- 3- Attend all classes

Discipline and educational rules:

- 1- For each unplanned absence, 0.5 points will be deducted from 20, and in case of absence exceeding the permissible limit, the score will be zero.
- 2- The maximum permission time to participate in the class is 5 min after the start of the session.
- 3-
- 4- Mobile phone use is prohibited during class.

Other important notes for students:						
1-	Studying the rules and rights of the professor and the student					

Final exam date: In accordance with the schedule

Beginning of laboratory sessions 2024/02/10 (October 02/2024)-

Mid exam date:

Wednesday every week, 8-10 A.M.

	date	Presentation	Topic	Professor	Theoretical	References	Chapter	Pages
Row					or practical			
1	October 02	General physiology Lab	Measurement of Hct and Hb	Dr. Ghasemi	Practical	Practical Physiology	2	25-42
2	October 09	General physiology Lab	Measurement of Blood pressure	Dr. Ghasemi	Practical	Practical Physiology	3	43-66
3	October 16	General physiology Lab	Electrocardiography (ECG)	Dr. Ghasemi	Practical	Practical Physiology	4	67-88
4	October 23	General physiology Lab	Measurement of Pulmonary volumes and capacities (Spirometer)	Dr. Ghasemi	Practical	Practical Physiology	5	89- 108
5	October 30	General physiology Lab	Spinal reflexes	Dr. Ghasemi	Practical	Practical Physiology	7	139- 158
6	November 06	General physiology Lab	Auditory and Vision tests	Dr. Ghasemi	Practical	Practical Physiology	6	109- 138
7	November 13	General physiology Lab	Skeletal muscle contraction	Dr. Ghasemi	Practical	Practical Physiology	8	159- 168
8	November 20	General physiology Lab	Oral Glucose tolerance test	Dr. Ghasemi	Practical	Practical Physiology	9	169- 182
9	November 27	General physiology Lab	Carbohydrates digestion	Dr. Ghasemi	Practical	Practical Physiology	10	183- 186