

## Course plan

|   |   |   |
|---|---|---|
| <b>Year:</b> 2025-2026                        | <b>Semester:</b> <input type="checkbox"/> First <input checked="" type="checkbox"/> Second  | <b>Number of students:</b> 40                         |
| <b>Major:</b> Medicine and Dentistry students | <input checked="" type="checkbox"/> Basic sciences <input type="checkbox"/> Physiopathology | <b>Department:</b> Physiology                         |
| <b>Course Title:</b> Practical Physiology     | <input type="checkbox"/> Theoretical <input checked="" type="checkbox"/> Practical          | <b>Credit:</b> 0.8                                    |
| <b>Prerequisite:</b> none                     | <b>Day &amp; Time:</b> Wednesday , 8-10 a.m. and 14-16 p.m.                                 | <b>Place:</b> physiology 1 department                 |
| <b>Instructor:</b> Dr. Ghasemi                | <b>Office address:</b> School of Medicine, Department of physiology(1)                      | <b>Tel:</b> 031-3792 9014                             |
| <b>Email:</b> ghasemi.m.ph@gmail.com          | <b>Response Hours and Days:</b> 13-16 p.m Wednesday   | <b>Student representative name and mobile number:</b> |

**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)
- 3- Practical physiology of Cardiovascular system (Blood pressure)
- 4- Practical physiology of Respiratory system(Spirometer)
- 5- Practical physiology of Nervous system (Spinal reflexes)
- 6- Practical physiology of Nervous system (Auditory and Vision tests)
- 7- Practical physiology of gastrointestinal system (Carbohydrates digestion)
- 8- Practical physiology of Endocrine system (Glucose tolerance test)
- 9- 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        |
| <b>TOTAL MARKS</b>                                 | <b>20</b> |

**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

Mid exam date: .....

Final exam date: In accordance with the schedule

**Beginning of laboratory sessions 2026/18/02 (February 18 /2026)****Wednesday every week, 8-10 a.m. and 14-16 p.m.**

| Row | date   | Presentation           | Topic  | Professor   | Theoretical or practical | References           | Chapter | Pages   |
|-----|--------|------------------------|--|-------------|--------------------------|----------------------|---------|---------|
| 1   | Feb 18 | General physiology Lab | Measurement of Hct and Hb                                    | Dr. Ghasemi | Practical                | Practical Physiology | 2       | 25-42   |
| 2   | Feb 25 | General physiology Lab | Measurement of Blood pressure                                | Dr. Ghasemi | Practical                | Practical Physiology | 3       | 43-66   |
| 3   | Mar 04 | General physiology Lab | Electrocardiography (ECG)                                    | Dr. Ghasemi | Practical                | Practical Physiology | 4       | 67-88   |
| 4   | Mar    | General physiology Lab | Measurement of Pulmonary volumes and capacities (Spirometer) | Dr. Ghasemi | Practical                | Practical Physiology | 5       | 89-108  |
| 5   | Apr 08 | General physiology Lab | Spinal reflexes  | Dr. Ghasemi | Practical                | Practical Physiology | 7       | 139-158 |
| 6   | Apr 15 | General physiology Lab | Auditory and Vision tests                                    | Dr. Ghasemi | Practical                | Practical Physiology | 6       | 109-138 |
| 7   | Apr 22 | General physiology Lab | Oral Glucose tolerance test                                  | Dr. Ghasemi | Practical                | Practical Physiology | 9       | 169-182 |
| 8   | Apr 29 | General physiology Lab | Carbohydrates digestion                                      | Dr. Ghasemi | Practical                | Practical Physiology | 10      | 183-186 |

|   |        |                        |                            |             |           |                      |  |  |
|---|--------|------------------------|----------------------------|-------------|-----------|----------------------|--|--|
| 9 | May 06 | General physiology Lab | Tm calculation for Glucose | Dr. Ghasemi | Practical | Practical Physiology |  |  |
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