

### Course plan

<b>Year:</b> 2024-2025	<b>Semester:</b> <input checked="" type="checkbox"/> First <input type="checkbox"/> Second	<b>Number of students: ?</b>
<b>Major:</b> MD, MBBS	<input checked="" type="checkbox"/> Basic sciences <input type="checkbox"/> Physiopathology	<b>Department:</b> Physiology
<b>Course Title:</b> Renal physiology	<input checked="" type="checkbox"/> Theoretical <input type="checkbox"/> Practical	<b>Credit:</b> 0.8
<b>Prerequisite:</b> none	<b>Day &amp; Time:</b> Wednesday, 14-16 P.M.	<b>Place:</b> Class 204
<b>Instructor:</b> Prof. Mehdi Nematbakhsh	<b>Office address:</b> School of Medicine, Department of physiology	<b>Tel:</b> 031-3792 9017
<b>Email:</b> nematbakhsh@med.mui.ac.ir	<b>Response Hours and Days:</b> 13-16 add days	<b>Student representative name and mobile number:</b>

**Main objective:** Understanding the basic concepts of renal system physiology

**References (Text books):**

- 1- Guyton and Hall Textbook of Medical Physiology, (Latest version) Chapters 25-31

**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
Final Exam (MCQ, True/False, Matching, Written essay)	
Final Exam may take in two different exams at two different day	20
<b>TOTAL MARKS</b>	<b>20</b>

**Student's responsibilities:**

- 1- Study the chapters (25-31) from the text book before and after the class
- 2- Compliance with class rules
- 3- For each hour class absence, 0.25 marks will be deducted from the final grade (each class 0.5 mark). More than 3 hour class absence is not allowed and zero grades will be reported.

**Discipline and educational rules:** will be present at the class

**Other important notes for students:**

**Mid exam date:** In accordance with the schedule

**Final exam date:** In accordance with the schedule

Row	date	Presentation	Topic	Professor	Type	References	Chapter
1	Sep 11 2024,Shahrivar 21, 1403	Class	Compartment and body fluid	Mehdi Nematbakhsh	Theoretical	Textbook of Medical Physiology (Guyton and Hall)	25
2	Sep 18 2024,Shahrivar 28, 1403	Offline	Filtration and renal blood flow	Mehdi Nematbakhsh	Theoretical	Textbook of Medical Physiology (Guyton and Hall)	26 and 27
3	Sep 25 2024,Mehr 4, 1403	Offline	Reabsorption and secretion	Mehdi Nematbakhsh	Theoretical	Textbook of Medical Physiology (Guyton and Hall)	28
4	Oct 2 2024,Mehr 11, 1403	Offline	Concentration of urine and control of extracellular sodium and potassium	Mehdi Nematbakhsh	Theoretical	Textbook of Medical Physiology (Guyton and Hall)	29
5	Oct 9 2024,Mehr 18, 1403	Offline	Blood volume regulation	Mehdi Nematbakhsh	Theoretical	Textbook of Medical Physiology (Guyton and Hall)	30
6	Oct 16 2024,Mehr 25, 1403	Offline	Control of hydrogen ions and acid-base balance	Mehdi Nematbakhsh	Theoretical	Textbook of Medical Physiology (Guyton and Hall)	31