

### Course plan

<b>Year:</b> 2025-2026	<b>Semester:</b> First <input checked="" type="checkbox"/> Second	<b>Number of students:</b> 30
<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> Thursday 8-10 A.M.	<b>Place:</b> Class
<b>Instructor:</b> Dr. Mehdi Nematbakhsh	<b>Office address:</b> School of Medicine, Department of Physiology	<b>Tel:</b> 031-3792 2917
<b>Email:</b> nematbakhsh@med.mui.ac.ir	<b>Response Hours and Days:</b> Monday Afternoon	Student representative name

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

**References (Text books):** 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	20
<b>TOTAL MARKS</b>	<b>20</b>

**Student's responsibilities:**

- 1- Study the chapters (25-31) from the text book
- 2- Observe the class order and rules

**Discipline and educational rules:** Negative point from final grade will be implement for each class absent

**Other important notes for students:**

The final exam may include any type of question (Explanation, True-False, Matching, Multiple Choice, Calculation)

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

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

Row	date	Presentation	Topic	Professor	Theoretical or practical	References	Chapter
1	Feb 24 2026 1404/12/5	Class Lecture	Compartment and body fluid	Mehdi Nematbakhsh	Theoretical	Textbook of Medical Physiology (Guyton and Hall)	25
2	Mar 3 2026 1404/12/12	Class Lecture	Filtration and renal blood flow	Mehdi Nematbakhsh	Theoretical	Textbook of Medical Physiology (Guyton and Hall)	26 and 27
3	Mar 10 2026 1404/12/19	Class Lecture	Reabsorption and secretion	Mehdi Nematbakhsh	Theoretical	Textbook of Medical Physiology	28

						(Guyton and Hall)	
<b>4</b>	Mar 17 2026 1404/12/26	Class Lecture	Concentration of urine and control of extracellular sodium and potassium	Mehdi Nematbakhsh	Theoretical	Textbook of Medical Physiology (Guyton and Hall)	29& 30
<b>5</b>	April 7 2026 1405/1/18	Class Lecture	Blood volume regulation	Mehdi Nematbakhsh	Theoretical	Textbook of Medical Physiology (Guyton and Hall)	30
<b>6</b>	April 14 2026 1405/1/25	Class Lecture	Control of hydrogen ions and acid-base balance	Mehdi Nematbakhsh	Theoretical	Textbook of Medical Physiology (Guyton and Hall)	31
<b>7</b>	April 21 2026 1405/2/1	Class Lecture	Case study	Mehdi Nematbakhsh	Theoretical	Note	