

## 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						
<b>Main objective:</b> Understanding the basic concepts of renal system								
<b>References (Text books):</b> Guyton and Hall Textbook of Medical Physiology, (Latest version), Chapters 25-31								
<b>Student evaluation and the value related to each evaluation:</b> (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)								
<table border="1"><thead><tr><th>ASSESSMENT TOOLS</th><th>From</th></tr></thead><tbody><tr><td>Final Exam</td><td>20</td></tr><tr><td>TOTAL MARKS</td><td>20</td></tr></tbody></table>			ASSESSMENT TOOLS	From	Final Exam	20	TOTAL MARKS	20
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Final Exam	20							
TOTAL MARKS	20							
<b>Student's responsibilities:</b> 1- Study the chapters (25-31) from the text book 2- Observe the class order and rules								
<b>Discipline and educational rules:</b> Negative point from final grade will be implement for each class absent								
<b>Other important notes for students:</b> The final exam may include any type of question (Explanation, True-False, Matching, Multiple Choice,5. Calculation)								
<b>Mid exam date:</b> In accordance with the schedule								
<b>Final exam date:</b> 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	