

### Course plan

<b>Year:</b> 2025-2026	<b>Semester:</b> <input checked="" type="checkbox"/> First <input type="checkbox"/> Second	<b>Number of students:</b> 4								
<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> Conference Room								
<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>								
<b>Main objective:</b> Understanding the basic concepts of renal system physiology										
<b>References (Text books):</b> 1- 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" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">ASSESSMENT TOOLS</th> <th style="width: 30%;">From</th> </tr> </thead> <tbody> <tr> <td>Final Exam (MCQ, True/False, Matching, Written assay)</td> <td></td> </tr> <tr> <td>Final Exam may take in two different exams at two different day</td> <td style="text-align: center;">20</td> </tr> <tr> <td><b>TOTAL MARKS</b></td> <td style="text-align: center;"><b>20</b></td> </tr> </tbody> </table>			ASSESSMENT TOOLS	From	Final Exam (MCQ, True/False, Matching, Written assay)		Final Exam may take in two different exams at two different day	20	<b>TOTAL MARKS</b>	<b>20</b>
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<b>TOTAL MARKS</b>	<b>20</b>									
<b>Student's responsibilities:</b> 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.										
<b>Discipline and educational rules:</b> will be present at the class										
<b>Other important notes for students:</b>										
<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	Type	References	Chapter
1	April 20, 2025	Class	Compartment and body fluid	Mehdi Nematbakhsh	Theoretical	Textbook of Medical Physiology (Guyton and Hall)	25
2	April 27, 2025	Offline	Filtration and renal blood flow	Mehdi Nematbakhsh	Theoretical	Textbook of Medical Physiology (Guyton and Hall)	26 and 27
3	May 4, 2025	Offline	Reabsorption and secretion	Mehdi Nematbakhsh	Theoretical	Textbook of Medical Physiology (Guyton and Hall)	28
4	May 11, 2025	Offline	Concentration of urine and control of extracellular sodium and potassium	Mehdi Nematbakhsh	Theoretical	Textbook of Medical Physiology (Guyton and Hall)	29
5	May 18, 2025	Offline	Blood volume regulation	Mehdi Nematbakhsh	Theoretical	Textbook of Medical Physiology (Guyton and Hall)	30
6	May 27, 2025	Offline	Control of hydrogen ions and acid-base balance	Mehdi Nematbakhsh	Theoretical	Textbook of Medical Physiology (Guyton and Hall)	31