

Faculty: Medicine

**Lesson:** Introduction to basic science

**Year:** 1401

**Educator:** Dr. Masoumeh Nozari

**Place of education:**

**Week Times:** Sunday (12-14 PM)

**Reference:** Guyton and hall textbook of medical physiology, The last edition

Session Number	session Title	date	Educator	Teaching method
1	<ul style="list-style-type: none"> <li>Cells as the Living Units of the Body, Homeostatic</li> <li>Physical Structure of the Cell</li> </ul>	29.8.1401	Dr. Masoumeh Nozari	Answer and question, lecture
2	<ul style="list-style-type: none"> <li>Transport of Substances Through the Cell Membrane,</li> <li>The Lipid Barrier of the Cell Membrane and Cell Membrane Transport Proteins</li> <li>Diffusion</li> <li>Active Transport</li> </ul>	6.9.1401	Dr. Masoumeh Nozari	Answer and question, lecture, PBL, Short lecture in specific topics (5-10 Min) by students
3	<ul style="list-style-type: none"> <li>Basic Physics of Membrane Potentials</li> <li>Resting Membrane Potential</li> <li>Nerve Action Potential</li> </ul>	13.9.1401	Dr. Masoumeh Nozari	Answer and question, lecture, PBL, Short lecture in specific topics (5-10 Min) by students
4	<ul style="list-style-type: none"> <li>Propagation of the Action Potential</li> <li>Plateau in Some Action Potentials</li> <li>Rhythmicity of some excitable tissues— repetitive discharge</li> </ul>	20.9.1401	Dr. Masoumeh Nozari	Answer and question, lecture, PBL, Short lecture in specific topics (5-10 Min) by students
5	<ul style="list-style-type: none"> <li>Physiologic Anatomy of Skeletal Muscle</li> <li>General Mechanism of Muscle Contraction</li> <li>Molecular Mechanism of Muscle Contraction</li> </ul>	27.9.1401	Dr. Masoumeh Nozari	Answer and question, lecture, PBL, Short lecture in specific topics (5-10

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	<ul style="list-style-type: none"> <li>• Energetics of Muscle Contraction</li> </ul>			Min) by students
6	<ul style="list-style-type: none"> <li>• Transmission of Impulses from Nerve Endings to Skeletal Muscle Fibers: The Neuromuscular Junction</li> <li>• Molecular Biology of Acetylcholine Formation and Release</li> <li>• Drugs That Enhance or Block Transmission at the Neuromuscular Junction</li> </ul>	4.10.1401	Dr. Masoumeh Nozari	Answer and question, lecture, PBL, Short lecture in specific topics (5-10 Min) by students
7	Contraction of Smooth Muscle	11.10.1401	Dr. Masoumeh Nozari	Answer and question, lecture, PBL, Short lecture in specific topics (5-10 Min) by students