

**Plan ćwiczeń dla stud. II roku kierunku Farmacja ED,
sem. zimowy, rok akadem. 2025/2026**

Fizjologia człowieka

wtorek	Gr 9.15-12.00	Katedra Fizjologii Człowieka Karłowicza 24
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Lp.	Wtorek	Temat	Prowadzący ćwiczenia
1	07.10.	1 Fundamentals of cell electrophysiology - neuron structure, cell membrane structure, types of ion channels, ion pumps. Origin and characteristics of resting potential. 2 Origin and characteristics of the action potential - excitability of the nerve cell, the role of ion channels, the phenomenon of refractory period in the neuron (PhysioEx). 3. Physiology of skeletal and smooth muscles - mechanism of contraction and regulation of its force.	dr P. Złomańczuk
2	14.10.	Electrical activity of the heart. Structure and role of the cardiac pacemaker. Influence of the autonomic nervous system on the electrical activity of the heart.	dr P. Złomańczuk
3	21.10.	The impact of selected drugs on heart function. A case study.	dr P. Złomańczuk
4	28.10.	Hemodynamic cycle, Volume - left ventricular pressure curve. Systolic and diastolic arterial pressure. Mean arterial pressure. Orthostatic test. The role of baroreceptors in the regulation of arterial pressure.	mgr M. Bejtka
5	04.11.	Regulation of endocrine secretion - hypothalamic-pituitary-thyroid axis. Thyroid hormones - receptors, mechanism of action at the cellular level, systemic effects.	mgr M. Bejtka
6	18.11.	Hormonal regulation of blood glucose concentration.	dr P. Złomańczuk
7	25.11.	Blood composition, role of morphotic elements, basic laboratory parameters	dr P. Złomańczuk
8	02.12.	Chemical and physical process of digestion. Metabolism.	dr P. Złomańczuk
9	09.12.	Respiratory system.	dr P. Złomańczuk
10	16.12.	1. Glomerular filtration. Autoregulatory mechanisms in the kidney. 2. Mechanisms responsible for changing the composition of urine. The impact of selected diuretics on kidney physiology and urine composition. 3. Acid-Base physiology.	dr P. Złomańczuk

28.12.2025

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