CALENDAR PLAN OF PRACTICAL CLASSES ON PHYSICS

Mon.	Dates	T H E M E	Type of class	Groups
October-2018	01 – 07	Fundamentals of differential calculus (differential, partial derivatives, total differential, the use of differentials in approximate calculations).	pract	1- 46
	08 – 14	Fundamentals of Integral Calculus (indefinite and definite integrals, integration techniques).	pract	1- 46
	15 – 21	Differential Equations (linear differential equations of the 1st order).	pract	1- 46
	22 – 28	Random variables. Basics of mathematical statistics.	pract	1- 46
November - 2018	29 – 04	Elements of probability theory	pract	1- 46
	05 - 11	Processing of measurement results	pract	1- 46
	12 – 18	Mathematical models. Using. Examples.	pract	1- 46
	19 – 25	Verification work on higher mathematics (final control of knowledge on a unit 1).	pract	1- 46
	26 - 02	Biomechanics. Fundamentals of Materials. Solving problems.	pract	1- 46
December - 2018	03 - 09	Basics of biorheology and hemodynamics (seminar). The physics of the circulatory system	pract	1- 46
	10 – 16	Basics of bioacoustics. Physics of hearing	pract	1- 46
	17 – 23	Biological Thermodynamics. Biophysics of macromolecules	pract	1- 46
	24 - 30	Transport of substances through cell membranes. Biopotentials (seminar)	pract	1- 46
January – 2019	31 – 06	Control of practical skills (final control of knowledge on a unit 2).	pract	1- 46
	07 – 13	Physical fundamentals of electrocardiography	pract	1- 46
	14 – 20	Medical electronics. Methods of medical imaging	pract	1- 46
	21 –27	Optics. Physics of vision.	pract	1- 46
	28 – 03	Ionizing radiation (seminar)	pract	1- 46
February – 2019	04 – 10	Nuclear Magnetic resonance	pract	1- 46
	11 – 17	Control of practical skills (final control of knowledge on a unit 3).	pract	1- 46

Head of Department, Professor Khudaibergenova B.M.

CALENDAR PLAN OF LECTURES ON PHYSICS

Mon.	Dates	T H E M E	Type of class	Groups
October-2018	01 – 14	Fundamentals of mathematical analysis	Lec.1	1- 46
	15 – 28	Fundamentals of the theory of probability and mathematical statistics	Lec. 2	1- 46
November - 2018	29– 11	The mechanical properties of tissues. Biomechanics. Newton's Laws.	Lec. 3	1- 46
	12 – 25	Basics of bio-rheology and hemodynamics.	Lec. 4	1- 46
December - 2018	26– 09	Mechanical oscillations and waves	Lec. 5	1- 46
	10 – 23	Biological Membrane. Biological Thermodynamics	Lec. 6	1- 46
January – 2019	24 – 06	The action of electric currents and electromagnetic fields on biological objects.	Lec. 7	1- 46
	07 – 20	Medical electronics.	Lec. 8	1- 46
	21– 03	Optics	Lec. 9	1- 46
February – 2019	04 – 17	Ionizing radiation. Dosimetry Elements of quantum physics.	Lec. 10	1- 46

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