

**SEMINARS:**

The topic №	Name of topics for class	Number of hours	Maximum score
1	Elementary particles.	1	5
2	Cosmological singularity.	1	5
3	Relic radiation.	1	5
4	Quantum properties of particles. Spin. Isospin.	1	
5	Properties of neutrinos.	1	5
6	Collapse of the star.	1	5
7	Fundamental interactions.	1	5
8	Isotopic symmetry.	1	5
9	Symmetries of hadron physics.	1	5
10	Main conclusions and possibilities of development of the standard model.	1	5
11	Composite particles. Leptons. Quarks.	1	5
12	The structure of hadrons and hadron-hadron interactions.	1	5
13	Quantum gauge theories.	1	5
14	The Higgs mechanism. The Salam-Weinberg model.	1	5
15	Modern experimental installations.	1	5