

**SEMINARS:**

The topic №	Name of topics for class	Number of hours	Maximum score
1	The birth of stars. Study interstellar medium.	1	5
2	Galaxies and quasars.	1	5
3	The use of physical laws to the study of space objects (stars, cosmic plasma) and the universe as a whole.	1	5
4	Renewable energy sources.	1	
5	Elementary bases of the interaction of matter and radiation.	1	5
6	Consideration of problems using the transfer equation.	1	5
7	Nuclear reactions in stars and other astronomical objects.	1	5
8	The interactions and reactions of two-particle and three-particle types	1	5
9	Thermonuclear reactions, thermonuclear bomb.	1	5
10	The explosions of supernovae, quasars, pulsars, neutron stars.	1	5
11	Modern problems of astrophysics.	1	5
12	The use of the achievements of nuclear physics to the study of cosmic phenomena.	1	5
13	The latest discoveries and developments in the study of the universe in recent years.	1	5
14	Nuclear reactions in astrophysical objects.	1	5
15	Databases on nuclear reactions.	1	5