

THE ASTROBIOLOGY COURSE FOR TEACHER'S COLLEGE STUDENTS. N. I. Perov, Cultural and Educational Centre named after Valentina Tereshkova, ul. Chaikovskogo, 3, Yaroslavl, 150000, Russian Federation. E-mail: perov@yarplaneta.ru.

Introduction: The problem of searching for life in the Universe is one of the fundamental problems of modern astrophysics [1]. This problem causes the great interest of the student. For the first time the corresponding course has been worked out for the students of Yaroslavl's State Pedagogical University in 2012 and it facilitates to creatively grow up of the young researches. "The course of astrobiology for teacher's college students" [2] is devoted to – standing up of science of searching for life in the Universe; considering past and future of the Earth's civilization; finding in the space–time of extraterrestrial civilization; considering of results of the contact; interpretation, on the physical laws, of "unknown flight objects". For the first time the system of testing problems demonstrates the modern state of the physical Universe acting upon the mankind and acting of mankind upon the Cosmos. The students try to research the unsolved problems and publish the new obtained results in the form of scientific papers.

The Methodical Aspects: The course is worked out with the objects showing of possible unification of a large number of different regions of knowledge into united fundamental science. Tactical scheme of it is to organize research work of the students. We use the following long–term plan of subjects there are 24 hours of lectures and 74 hours of practical work. We use the following long–term plan of subjects. 1. Putting up the problem SETI in XXI century. 2. Acting of the Cosmos upon the Earth's civilization. 3. Acting of the Earth's civilization upon the Cosmos. 4. The problems of the Astrobiology. 5. Models of transitions from inanimate nature to biological activity and the Earth's civilization. 6. Cosmic future of the Earth's civilization. 7. The methods of searching for extraterrestrial planets in the space–time. 8. The methods of estimating of extraterrestrial civilizations number in the Metagalaxy. The Drake's formula – the critical analyses. 9. The directions of searching for extraterrestrial intelligence. 10. The methods of connecting with extraterrestrial intelligence. 11. What will give the contact with extraterrestrial intelligence to the mankind? 12. "UFO" and "the visits" of alien live. The physical base of "anomalous" phenomena. 13. Perspective of development of astrobiology. 14. All–waves searching for extraterrestrial intelligence. 15. The problem of interstellar traveling. 16. The models of the Universe evolution. 17. The space–time scale in the Universe. 18. The peculiarity of physical constants. The dimensionless four fundamen-

tal constants. 19. The anthropic principle. 20. The models of cosmic civilizations evolution. 21. Fermi's paradox. 22. Lefevre's cosmic subjects. 23. Astro-sociological paradox. 24. SETI's objects catalogue. 25. Cosmology and SETI. Dark matter and dark energy. 26. Pedagogics and SETI. New picture of the Universe. 27. Methodical possibilities of Cultural and Educational Centre named after V.V. Tereshkova for astronomical education [1, 2].

Conclusions: There are known several of the courses of astrobiology, which show the efficiency of theirs using in educational process [2].

References: [1] Gyndilis L. M. (2004) *SETI: Searching for Extraterrestrial Intelligence*. Moscow. Ed. of Physical and Mathematical Literatures. 648 pp. (In Russian). [2] Perov N. I. and Tikhomirova E. N. (2012) *Fundamental Problem of Astrophysics – Searching for Extraterrestrial Civilizations in the Metagalaxy*. 115 p. (In Russian).