

NORTH-EASTERN

FEDERAL UNIVERSITY NAMED AFTER M.K.AMMOSOV

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|---|---|
| Course/program title | Fundamentals of mathematical analysis |
| Main goals and topics of the course/program | <p>Purpose of the course is forming of mathematic culture, fundamental training in the sphere of mathematical analysis, mastering the contemporary terms of mathematical analysis for its further usage in solution of Applied Mathematics and Informatics tasks</p> <p>The structure and content of the program:</p> <ol style="list-style-type: none">1/ The object of mathematical analysis. Theory of material numbers. Numerical sets.2/ Concept about numerical sequence. Sequence limit.3/ Limit of function of one material variable.4/ Infinitesimal, infinitely big functions and their properties.5/ First and second classical limits.6/ Concept of a function continuity of a point. Points of a function rupture and their classification.7/ Derivatives and differentials of the first and the highest orders. |
| Name of the department/institution offering the course | Technical Institute (Nerungry) Applied Mathematics and Informatics Department |
| Name of lecturer/supervisor | Saltetskaya Nataly Vasilievna |
| E-mail of lecturer/supervisor | salteckaya@mail.ru |
| Number of ECTS-Credits | 4 ECTS-Credits |