**SEMINARS:**

| The topic № | Name of topics for class | Number of hours | Maximum score |
|---|---|---|---|
| 1 | Introduction to the system of Mathematica | 1 | 5 |
| 2 | Numbers. Their representation and operations over them | 1 | 5 |
| 3 | Arithmetic: primenumbers | 1 | 5 |
| 4 | Numerical functions | 1 | 5 |
| 5 | Factorization Factor Integer ECM | 1 | 5 |
| 6 | Linear programming | 1 | 5 |
| 7 | Nuclear Models | 1 | 5 |
| 8 | Toward a Unified Model Description of Nuclei | 1 | 5 |
| 9 | Coulomb Excitation, Compound Nucleus Reactions, and Other Reactions | 1 | 5 |
| 10 | Alpha, Proton, Heavy Cluster and Spontaneous Fission Decays | 1 | 5 |
| 11 | Beta Decay | 1 | 5 |
| 12 | Reaction Kinematics | 1 | 5 |
| 13 | Some Selected Applications of Nuclear Physics | 1 | 5 |
| 14 | Electric Quadrupole Hyperfine Interaction | 1 | 5 |
| 15 | Conservation Rules | 1 | 5 |