## Theme 5. Primary processing of statistical data. Statistical estimations of parameters of a distribution

1. Basic problems of mathematical statistics.

- 2. A sampling method.
- 3. Definitions of a population and its sample.
- 4. An empirical distribution law.

5. Ways of a presentation of sampling totalities and a representation of results of observations.

6. Discrete and interval variational series.

7. A polygon and a histogram.

8. Basic sampling characteristics and their asymptotic behavior.

9. Statistical estimations of distribution parameters of a population and their properties: an unbiasedness, possibility and an efficiency.

10. An asymptotic efficiency of maximally plausible estimations.

11. The method of moments.

12. Point and interval estimations.

13. A confidence interval for a mathematical expectation of a normal population.