Theme 7. Elements of correlation theory. Elements of regression theory

1. Problems of correlation analysis.
2. A sampling coefficient of a correlation, its properties.
3. A confidence interval.
4. A coefficient of determination.
5. A correlation ratio, its properties.
6. Problems of regression analysis.
7. A correlation dependence.
8. A correlation table.
9. Empirical lines of a regression.
10. An estimation of parameters of a pair regression equation using the least-squares method.
11. Point estimations.
12. A checking of a significance of parameters of a pair regression equation.
13. A confidence interval for a line of a pair regression.
14. The simplest cases of a nonlinear regression.
15. A concept of a multiple regression.