4.1. Title: **actuarial mathematics** (system analysis)

4.2. Annotation of the academic subject: the discipline includes main characteristics of life time, mortality analytical laws, mortality tables, claims processes modeling. Poisson and Gaussian approximation of cumulative claims are considered as well as main principles of actuarial premiums assignments. Special attention has been paid to schemes of long-term insurance and methods of premiums calculating in long-term insurance. Insurance contracts are considered too.

4.3. Type: academic subject

4.4. Duration: 8^{th} semester

4.5. Number of credits: 3

4.6. Lector's full name: full professor Eugene A. Lebedev, associate professor Irina V. Rozora.

4.7. The goal of the academic subject: the further study of actual problems of actuarial mathematics.

4.8. The prior requirements: basic knowledge of mathematical analysis, solving of systems of linear equations, basic knowledge of stochastic objects.

4.9. Professing methods: lections and seminars.

5.0. Rating methods: module-rating system. Each semester results are estimated over 100-poits scale. The second module is divided into two parts and ends by test.

5.1. Language: Ukrainian.