

4.1. Name: **random processes** (applied mathematics).

4.2. Abstract of educational discipline: educational discipline includes for itself basic theoretical provisions, modern methods of theory of random processes, mathematical models of random processes, classes and probabilistic descriptions of random processes, basic applications.

4.3. Type: normative course.

4.4. Term of study: 7th semester.

4.5. Amount of credits: 4 credits.

4.6. Name of lecturer: full professor Savchuk Mykhajlo Mykola, assistant professor Makushenko Igor Anatoliiovych.

4.7. Aim of educational discipline: acquire by basic concepts and results of theory of random processes, by the modern methods of research of mathematical models of random processes, by knowledge about basic classes, methods of construction and determination of probabilistic descriptions of processes of different classes, about possibilities of their applications and also assistance to development of probabilistic and analytical thought of students.

4.8. Previous requirements: to know material of normative courses of mathematical analysis, linear algebra and analytical geometry, the theory of probability and mathematical statistics, differential equations which are read on the first three courses.

4.9. Teaching methods: employments are conducted in form lectures and practical employments.

5.0. Evaluation methods: estimated after the module-rating system. The results of educational activity of students are estimated on a 100-ball scale and end with examination.

5.1. Teaching language: Ukrainian.