

4.1. Title: **Probability theory and mathematical statistics** (system analysis)

4.2. Annotation of the academic subject: the discipline includes models of counting and finite probabilistic schemes, models of geometric probability. It also includes learning of probability theory axiomatic, concepts of events independency, conditional probability, formula of total probability and Bayes' formula. Special attention has been paid to the basic concept of random variable.

4.3. Type: normative course

4.4. Duration: 4th and 5th semesters

4.5. Number of credits: 9 credits

4.6. Lector's full name: associate professor Alexander A.Chechelnskiy.

4.7. The goal of the academic subject: the deep learning of methods of mathematical modeling of chance phenomenon and stochastic experiments, profound study of stochastic models main features. Getting skills of constructive application of all gained knowledge and past experience at stochastic analysis.

4.8. The prior requirements: mathematical analysis, algebra, discrete mathematics, differential equations basic concept.

4.9. Professing methods: lections and seminars.

5.0. Rating methods: module-rating system. Each semester results are estimated over 100-poits scale. Education ends by test and exam.

5.1. Language: Ukrainian.

4.1. Title: **Probability theory and mathematical statistics**

(applied mathematics)

4.2. Annotation of the academic subject: the discipline includes models of counting and finite probabilistic schemes, models of geometric probability. It also includes learning of probability theory axiomatics, concepts of events independency, conditional probability, formula of total probability and Bayes' formula. Special attention has been paid to the basic concept of random variable.

4.3. Type: normative course

4.4. Duration: 4th and 5th semesters

4.5. Number of credits: 8 credits

4.6. Lector's full name: associate professor Myhaylo M. Sharapov, associate professor Irina V. Rozora.

4.7. The goal of the academic subject: the deep learning of methods of mathematical modeling of chance phenomenon and stochastic experiments, profound study of stochastic models main features. Getting skills of constructive application of all gained knowledge and past experience at stochastic analysis.

4.8. The prior requirements: mathematical analysis, algebra, discrete mathematics, differential equations basic concept.

4.9. Professing methods: lectures and seminars.

5.0. Rating methods: module-rating system. Each semester results are estimated over 100-poits scale. The course ends by test and exam.

5.1. Language: Ukrainian.

4.1. Title: **Probability theory and mathematical statistics** (informatics)

4.2. Annotation of the academic subject: the discipline includes models of counting and finite probabilistic schemes, models of geometric probability. It also includes learning of probability theory axiomatic, concepts of events independency, conditional probability, formula of total probability and Bayes' formula. Special attention has been paid to the basic concept of random variable.

4.3. Type: normative course

4.4. Duration: 5th and 6th semesters

4.5. Number of credits: 6 credits

4.6. Lector's full name: full professor Eugene A. Lebedev, assistant professors: Igor A. Makushenko, Anna V. Levinskaya.

4.7. The goal of the academic subject: the deep learning of methods of mathematical modeling of chance phenomenon and stochastic experiments, profound study of stochastic models main features. Getting skills of constructive application of all gained knowledge and past experience at stochastic analysis.

4.8. The prior requirements: mathematical analysis essentials, algebra, discrete mathematics, differential equations basic concept.

4.9. Professing methods: lectures and seminars.

5.0. Rating methods: module-rating system. Each semester results are estimated over 100-points scale. The course ends by exam.

5.1. Language: Ukrainian.

4.1. Title: **Probability theory and mathematical statistics**

(software engineering)

4.2. Annotation of the academic subject: the discipline includes models of counting and finite probabilistic schemes, models of geometric probability. It also includes learning of probability theory axiomatics, concepts of events independency, conditional probability, formula of total probability and Bayes' formula. Special attention has been paid to the basic concept of random variable.

4.3. Type: normative course

4.4. Duration: 3^d semester

4.5. Number of credits: 5 credits

4.6. Lector's full name: associate professor Myhaylo M. Sharapov.

4.7. The goal of the academic subject: the deep learning of methods of mathematical modeling of chance phenomenon and stochastic experiments, profound study of stochastic models main features. Getting skills of constructive application of all gained knowledge and past experience at stochastic analysis.

4.8. The prior requirements: mathematical analysis, algebra, discrete mathematics, differential equations basic concept.

4.9. Professing methods: lectures and seminars.

5.0. Rating methods: module-rating system. Each semester results are estimated over 100-poits scale. The course ends by exam.

5.1. Language: Ukrainian.

4.1. Title: **Probability theory and mathematical statistics** (computer science (teaching by correspondence)).

4.2. Annotation of the academic subject: the discipline includes the models of counting and finite probabilistic schemes, the models of geometric probability. It also includes learning of probability theory axiomatic, concepts of events independency, conditional probability, formula of total probability and Bayes' formula. Special attention has been paid to the basic concept of random variable.

4.3. Type: normative course

4.4. Duration: 5th, 6th and 7th semesters

4.5. Number of credits: 5.5 credits

4.6. Lector's full name: associate professor Iryna V.Rozora.

4.7. The goal of the academic subject: the deep learning of methods of mathematical modeling of chance phenomenon and stochastic experiments, profound study of stochastic models main features. Getting skills of constructive application of all gained knowledge and past experience at stochastic analysis.

4.8. The prior requirements: mathematical analysis, algebra, discrete mathematics, differential equations basic concept.

4.9. Professing methods: lectures and seminars.

5.0. Rating methods: module-rating system. Each semester results are estimated over 100-poits scale. Education ends by tests and exam.

5.1. Language: Ukrainian.