[A-3]COURSE SYLLABUS

1. Course Description (Approximately 100 words)

The discipline "Theory of decision-making" refers to the basic part of the general professional cycle of disciplines and has a logical and substantive-methodical relationship with the disciplines of the main educational program. To master this discipline, knowledge and skills acquired as a result of studying the previous disciplines “Statistics”, “Mathematical analysis” are necessary. The knowledge acquired during the development of the discipline "Theory of decision-making" will be used in the study of the following disciplines: "Management decisions", "Workshop on business planning", "Planning and forecasting at the enterprise." Decision theory is a field of study involving the concepts and methods of mathematics, statistics, economics, management and psychology in order to study the patterns of people choosing ways to solve problems and problems, as well as ways to achieve the desired result.

2. Course Goals and Objectives (Approximately 100 words)

The goal of the discipline "Theory of decision-making" is the formation of fundamental knowledge among students about the principles of using mathematical models, methods and algorithms to select effective solutions for solving various organizational and technical problems.
Tasks of mastering the discipline "Theory of decision-making":
- the formation of comprehensive knowledge and practical skills in structuring, analyzing and solving problems;
- instilling in students the skills of the qualified use of the mathematical apparatus and application software packages for solving decision-making problems.

3. Textbook (Title, Author, Publisher, Year of Publication, etc.)

1. Rasulov A. EHTIMOLLAR NAZARIYASI VA MATEMATIK STATISTIKA Tashkent-2006
2. Орлов А. И. Организационно-экономическое моделирование: теория принятия решений: учебник для студентов вузов / А. И. Орлов. - М.: КНОРУС, 2011. - 568 с.
3. Мазелис А.Л. Теория принятия решений: учебно-практ. пособие [для студентов вузов] / А. Л. Мазелис, А. Г. Гузенко ; Владивосток. гос. ун-т экономики и сервиса. - Владивосток: Изд-во ВГУЭС, 2013. - 84 с.

4. Reference

а) http://study.vvsu.uz;
б) http://edu.vvsu.ru;
в) http://cito.vvsu.ru.
- http://znanium.com;
- http://rucont.ru/.

5. Course Requirements and Grades

Intermediate certification in the discipline "Theory of decision-making" includes theoretical tasks that allow you to assess the level of assimilation of students knowledge, and practical tasks that reveal the degree of formation of skills and possessions (see section 5).
The acquired knowledge and acquired skills are checked using electronic testing, and skills and knowledge are checked during the course of solving problems.
The volume and quality of mastering the discipline by students, the level of disciplinary competencies are assessed according to the results of current and intermediate certification by a quantitative assessment expressed in points, the maximum amount of points in the discipline is 100 points.

6. Course Calendar

Week	Main Content
1	Introduction to decision theory
2	People and their roles in decision making
3	Classification of models and decision-making methods
4	Decision making tasks in risk
5	Minimum risk criterion. Decision trees
6	Decision-making challenges in the face of uncertainty
7	Criteria of Laplace, Wald, maximin, Savage, Hurwitz
8	Models and methods of linear programming
9	Computer decision support systems. Search for a solution
10	Game Theory as a Decision Support Toolkit
11	Game models of cooperation and competition
12	Modeling single-criteria decision-making problems
13	Modifications of LP problems: transport type problems, production problem v
14	Using add-ons Finding IFR solution for solving decision-making problems un