**Academic discipline:**
**" Optimization methods "**

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|---|---|
| **Code and name of specialty** | 1-40 01 01 Information Technology Software |
| **Training course** | 2 |
| **Semester of training** | 3 |
| **Number of class hours:** | 52 |
| **Lectures** | 28 |
| **Seminar classes** | - |
| **Practical classes** | 24 |
| **Laboratory classes** | - |
| **Form of current assessment (credit/differential credit/exam)** | credit |
| **Number of credits** | 3 |
| **Competencies to be formed** | To use methods and models of mathematical programming to solve optimization problems |

**Summary of the content of the academic discipline:**

While studying the course, the student gets acquainted with the content of the main classes of optimization problems and with the main methods of solving mathematical optimization problems. The task of the discipline is to develop skills in constructing mathematical models and algorithms for finding optimal solutions to extreme problems. The study of the following sections is provided: linear programming; duality in linear programming; special tasks; convex programming. During the study, students master algorithms for finding optimal solutions to extreme optimization problems.