

## **Mathematics 2 (6 ECTS)**

This course continues building on the foundations of Mathematics 1 by introducing students to elementary terms such as linear algebra and linear programming, which are applicable in various areas of economics. Topics covered include linear differential and differential equations, and also a short introduction to game theory. One of the goals of this course is to expand students' knowledge of integral equations, which they were introduced to Mathematics 1, to help students master the techniques of linear algebra, introduce them to problems of linear programming, and to cover the principles of game theory (games of two players with a zero sum result). All of these themes will be illustrated by examples of their application in the field of economics. Students will also be introduced to software for solving mathematical problems.