

Linear Algebra 2 (6 ECTS)

GENERAL AND SPECIFIC COURSE GOALS

The main goal of the course is to analyze and to describe advanced concepts in linear algebra with appropriate applications.

	<u>General course goals</u>	<u>Specific course goals</u>
1.	Students will gain fundamental knowledge in advanced notions and methods of linear algebra.	Through lectures, exercises, readings and problem solving students will analyze advanced notions of linear algebra: finitely dimensional vector space (with the concept of scalar product, norms and metrics), linear operator, matrix display, characteristic polynomial, rank, trace operator and its application to solving linear systems of equations and inequalities.
2.	Students will also develop critical and analytical thinking in solving various mathematical and quantitative problems.	This goal is achieved by solving exercises in class, homeworks, and oral presentations.