RTU academic master study program Business Informatics

# DSP703 Systems Theory

**Abstract**

The goal of systems theory is to develop general description methods of systems, based on systems thinking, providing inclusion of all critical factors that have influence on systems performance. In this course students acquire foundations of systems theory. The focus is on specific systems theories which represent relevant factors for business development. Students obtain understanding of principles of systems classification and system classes. Foundations of cybernetics are included into the course as well as theories of living systems and viable systems. Students learn to use set theory and graph theory which are needed for systems modelling and are used in other courses.

Within course cooperation with: 

**Teaching staff**

*Responsible instructor*
Dr.habil.sc.ing., professor Jānis Grundspeņkis