

Title <b>(Badania operacyjne i ekonometria)</b>	Code <b>1011102311011130735</b>
Field <b>Management - Full-time studies - Second-cycle studies</b>	Year / Semester <b>1 / 1</b>
Specialty -	Course <b>core</b>
Hours Lectures: <b>1</b> Classes: <b>15</b> Laboratory: <b>1</b> Projects / seminars: -	Number of credits <b>3</b>
	Language <b>polish</b>

**Lecturer:**

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**Status of the course in the study program:**

Operations Research and Basics of Econometrics

**Assumptions and objectives of the course:**

To deliver knowledge about methods of management optimization and methods of estimation of an economic model. Student should be able to optimize a management decision and estimate economic model and forecast economic categories.

**Contents of the course (course description):**

The course covers subjects:  
1.Modelling of decision tasks. Linear programming.  
2.Multi-criteria programming.  
3.Integer programming.  
4.Nonlinear programming.  
5.Programming under risk.  
6.PERT-program evaluation and review technique.  
7.Multiple regression model.  
8.Nonlinear regression models.  
9.Estimation of time series models and forecasting

**Introductory courses and the required pre-knowledge:**

Economics, basics of statistics and matrix algebra.

**Courses form and teaching methods:**

Lectures:multimedial presentation and working out tasks.  
Classes: students are working out tasks.  
Laboratory: students are working out tasks with use of computers.

**Form and terms of complete the course - requirements and assessment methods:**

Written test in theory and tasks. Test in solving tasks with use of computer.

**Basic Bibliography:**

**Additional Bibliography:**