RIGA GRADUATE SCHOOL OF LAW

Course Outline

Course number	**RBA312**					
Course title	**Mathematics and Statistics for Social Sciences**					
Credit points	3 ECTS (2 LV CP)					
Total hours	80					
Contact hours	32					
Independent studies	48					
Course level	Bachelor					
Prerequisites	None					
Category	Mandatory	**X**	Restricted elective		Free elective	

COURSE RESPONSIBLE

Name	*Academic degree*	*Academic position*
Mārtiņš Danusēvičs	MSS	Lecturer

COURSE TEACHERS

Name	*Academic degree*	*Academic position*
Mārtiņš Danusēvičs	MSS	Lecturer

COURSE ABSTRACT

This course is designed to introduce students to the basic concepts and tools of mathematics and statistics. Topics include collection, processing and presentation of data, statistical measures of central tendency and dispersion, normal distribution, binomial distribution, sampling distribution, confidence intervals, hypotheses testing, correlation, univariate and multivariate regression, forecasting, and the interpretation of the outcomes of statistical tests.

GRADING CRITERIA

Criteria	*Weighting*
Topic tests	10%
Participation in seminars	10%
Mid-term exam	20%
Two assignments (individual, take-home)	40%
Final exam	20%

COURSE REQUIREMENTS

In order to pass the course, a student must attain a total grade of at least 40%, pass a mid-term and final exam (each at least 40%) and submit two assignments. In addition, attendance is mandatory (at least 12 sessions out of 16). The mid-term exam consists of questions about probabilities and it is available on Student Portal in the time slot agreed before. The final exam consists of questions and tasks where students are expected to apply statistical techniques.

In addition, regular tests per topic have to be done online (not mandatory). As regards participation in the seminars, it is graded based on student activity in performing training tasks.

COURSE PLAN – MAIN SUBJECTS

No.	***Main subjects***	***Planned hours***
1	Data and decisions	6
2	Probability theory	6
3	Descriptive statistics	8
4	Sampling method	4
5	Inferential statistics	8