1. Course (module) name	2. Code
Business Mathematics and Statistics	

3. Lecturer (s)	4. Division(s)

5. Cycle of studies	6. Course (module) level	7. Course (module) type
First	Course is not divided into parts	Mandatory

8. Delivery form	9. Delivery period	10. Delivery language (s)
Full-time	Semester 3	English

11. Requirements for students	
Preliminary requirements:	**Associated requirements (if any):**
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12. Scope of course (module) in ECTS credits	13. Full workload of a student (hours)	14. Contact work hours	15. Independent work hours
6	160	40	120

16. Course (module) purpose: competences developer by the course program
This course introduces students to the mathematical concepts and applications necessary for successful business careers. The course includes topics as linear and non-linear equations, differentiation and matrix calculations.

17. Relation of the course targets with the expected results of studies and evaluation methods of studies and student achievement

Results (targets) of the course	Results of the course	Methods of studies	Evaluation methods of academic achievements
Students have to acquire and apply analytical, creative and critical thinking skills in order to operate successfully in various fields of aviation management.	Students will be able to: - Solve simultaneous linear equations graphically and algebraically - Solve a system of two simultaneous linear equations in two unknowns - Determine the equilibrium price and quantity for a multi commodity market by - solving simultaneous linear equations - Solve and sketch quadratic equations - Use the natural logarithm function to solve equation - Differentiate - Evaluate and interpret second-order derivatives - Represent a system of linear equations in matrix notation - Use matrix inverses to solve systems of linear equations arising in economics.	Group discussions, lectures, lots of practice. The objective is to promote the understanding of mathematic concepts and to enable students to apply them in a meaningful way. Students are encouraged to rely on logical thinking, rather than on memorization.	3 tests during the course and the final exam.

18. Strategy and criteria of student assessment			
Assessment method	**Per cent**	**Delivery time**	**Evaluation criteria**
Tests	45	3 x 20 min.	Short test covering discussed topics. Each test delivers up to 15 points. Only one test can be retaken at the end of the course. Graphical and algebraic solutions will be required. Tests are unannounced.
Exam	55	90 min.	Exam covers all topics discussed in lectures and independent work. Graphical and algebric solutions will be required. Exam delivers 55 points.