

SYLLABUS for Mathematics for Economists

Basic data for the course			
Academic unit:	Economic Faculty		
Title of the course:	Mathematics for Economists		
Level:	Bachelor		
Status of the course:	Obligatory		
Year of studies:	First year – Second semester		
Number of hours per week:	2+1		
ECTS credits:	4		
Time/location:	Faculty of Economics, University of Prishtina “Hasan Prishtina”		
Tutor:	Burim Abdullahu		
Tutor’s contact details:	Email: burim.abdullahu@uni-pr.edu		
Content of the course			
	This course aims to provide students concepts from some parts of linear algebra, meaning of the function and its general study, meaning of definite and indefinite integral, meaning and calculation of differential equations.		
Course’s objectives:			
	Adaption of the curriculum from students will provide a sufficient theoretical basis for understanding and interpreting many problems from mathematics as well as from various fields. Comprehension and interpretation of knowledge from various mathematical problems. Help in understanding and interpreting the results from various economics areas.		
The expected outcomes:			
	By the end of the course, a student will be able to: Adopt elements of linear algebra Understand the meaning of function, the ways of giving function, some classes of functions and its overall study Comprehend and calculate definite and indefinite integrals Comprehend and calculate differential equations		
The students’ workload (<i>hours per semester, ECTS</i>)			
Activity	Week	Hours	Total
Lectures	13	2	26
Seminars (theoretical and practical)			
Case studies			
Direct contact with tutor			
Field research			
Colloquiums (tests)	2	2	4

Homework			10
Individual study (at library or at home)			60
Final preparation for the exam			
Evaluation			
Projects, presentation etc.			
Total			100
Teaching methods:	The course contains different teaching and learning methods that promote and facilitate active learning. There will be three-hour formal lecture and two-hour exercises per week. Lectures will be held according to the recommended literature. Part of each lecture will be devoted to class discussion and, where applicable, problem solving of the presented material.		
Assessment methods:	Evaluation is based on the following scheme: Attendance and activity, especially in the exercise hours: 10%. First Assessment: 35%. Second Assessment: 55%. In case the student does not pass the assessments, a final exam will be organized which contains the whole course material. At least 50% of the points are required for a pass grade The proportion between theory part and practice part will be 60:40		
Literature			
Basic literature:	1. Mathematics for Economists [Hardcover], Carl P. Simon (Author), Lawrence E. Blume (Author), April 17, 1994, ISBN-10: 0393957330, ISBN-13: 978-0393957334 2. Fundamental Methods of Mathematical Economics: Chiang, Alpha C. and Wainwright, Kevin. 2005. Fourth Edition. McGraw-Hill.		
Additional literature:			

The detailed plan of work:	
Week	Topic
<i>Wee 1</i>	Matrices
<i>Wee 2</i>	Determinant
<i>Wee 3</i>	Inverse matrices
<i>Wee 4</i>	Systems of linear equations
<i>Wee 5</i>	Function
<i>Wee 6</i>	Limit of range

<i>Wee 7</i>	Arithmetic progression
<i>Wee 8</i>	Geometric progression
<i>Wee 9</i>	Limit of function
<i>Wee 10</i>	Derivative of function
<i>Wee 11</i>	The implementation of derivative of function
<i>Wee 12</i>	The implementation of derivative of function
<i>Wee 13</i>	Integral indefinite
<i>Wee 14</i>	Integral definite
<i>Wee 15</i>	Differential equations

Academic policies and code of conduct:

<p>Students are expected to participate in lectures and exercises. Also, consultation are available as well and students are instructed to use computers in their work though case studies. They are encouraged to use information technology in problems solving. They should respect the code of conduct during lectures and exams and in communication with the academic staff.</p>
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