**SYLLABUS: Mathematics for Economists**

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| **Course Basic Information** |
| **Academic Unit:**  | Faculty of Economics |
| **Course title:** | Mathematics for Economists |
| **Level:** | Bachelor |
| **Course Status:** | Obligatory |
| **Year of Study:** | 1st Year, 1st Semester |
| **Number of Classes per Week:** | 2+2 |
| **ECTS Credits:** | 6 ECTS |
| **Time /Location:** | Faculty of Economics, University of Prishtina “Hasan Prishtina” |
| **Teacher:** | Prof.Ajet Ahmeti; Prof.Nimete Berisha |
| **Contact Details:**  | ajet.ahmeti@uni-pr.edu; nimete.berisha@uni-pr.edu |
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| **Course Description:** | Students will get acquainted with Mathematics, through which they will:- absorb elements of linear algebra.- be acquainted with the meaning of the function, the ways of assigning the function, in several function classes, and its general study.- get familiar with the meaning of the fixed and indefinite integral |
| **Course Goals:** | - This course aims to provide concepts from parts of the linear algebra, the meaning of the function as well as its general study, the meaning of the fixed and indefinite integral. |
| **Expected Learning Outcomes:** | Successful completion of the Mathematics course will provide a sufficient theoretical basis for the understanding and interpretation of many problems, both from mathematics and its implementation in different fields.- Understand and interpret knowledge from various mathematical problems- Facilitate the understanding and interpretation of results and some of the professional expertise of economics. |
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| **Student Workload (should be in compliance with student’s Learnign Outcomes)** |
| **Activity** | **Hours** | **Day/ Week** | **Total** |
| Lectures | 2 | 15 |  30 |
| Theory/ Lab Work/Exercises | 2 | 15 | 30 |
| Practical Work |  |  |  |
| Consultations with the teacher | 20 min | 15 | 5 |
| Field Work |  |  |  |
| Test, seminar paper | 2 | 2 | 4 |
| Homework | 2 | 13 | 26 |
| Self-study (library or home) | 3 | 15 | 45 |
| Preparation for final exam | 10 | 1 | 10 |
| Assessment time (test, quiz, final exam) |  |  |  |
| Projects, presentations, etc.  |  |  |  |
| **Total** |  |  | **150** |
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| **Teaching Methods:**  | The way of learning will be two hours of lectures and two hours of exercises for 15 weeks. Lectures are held according to basic literature. In each segment of the lecture and the respective exercises, students are encouraged to comment, question and receive explanations as a result of the questions. The level of discipline is strict so that eventually unfocused students will not damage those who are actively focused and interested.Consultations are scheduled according to the above hours. However, additional consultations may be arranged in agreement with the professor if necessary.  |
| **Assessment Methods:** | The assessment of the acquired knowledge and skills is done through:* The system of active participation in lectures and especially in exercises, estimated at 10% of success.
* Midterm Exam = 35% of success.
* Final exam = 55% of success.

In case of non-success in the semifinals, the exam containing the entire material is organized.For a passing grade, the student must have completed 50%.General description of the assessment:* Examination is realized through two written exams,
* The final exam is conducted within 2 hours of written examination in groups suitable for optimal realization of exam.

Students dissatisfied with the outcome have the right to appeal. |
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| **Primary Literature:**  | 1.Ajet Ahmeti: Matematika për ekonomistë, Prishtinë, 2012.2.Faton Berisha:Matematika Per Biznes,2005 |
| **Additional Literature:**  | 1. R.J.Harshbarjer;J.J.Reynolds:Mathematical Applications for the Menagment,Life,and Social Scences,Houghton Mifflin Company, 2007
2. Edward T. Dowling, Introduction to Mathematical Economics, McGraw-Hill, 2001

 3. Eugene Don , Joel Lerner “ Basic business mathematics ” ,  Schaum,s outlines, Mc GRAW – HILL 2000 |

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| Designed teaching plan |
| Week | **Title of the Lecture** |
| *Week 1:* | Matrices. Determinants |
| *Week 2:* | Determinants |
| *Week 3*: | Systems of Linear Equations |
| *Week 4:* | Systems of Linear Equations |
| *Week 5:* | Functions |
| *Week 6*: | Limit of Range  |
| *Week 7:* | Arithmetic and Geometric Progression |
| *Week 8:* | The Limit of Function |
| *Week 9:* | The Derivative of Function |
| *Week 10:* | The Derivative of Function |
| *Week 11*: | The implementation of derivative of function |
| *Week 12*:  | The implementation of derivative of function |
| *Week 13*:  | The implementation of derivative of function in Economics |
| *Week 14*:  | Integral indefinite |
| *Week 15*:  | Integral definite |

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| Academic Policies and Code of Conduct |
| *Assign policies of courtesy to the status of the UP.**The level of discipline is strictly maintained so that eventually unfocused students will not damage those who are actively focused and interested.**Consultations are scheduled according to the above schedule. However, additional consultations may be arranged in agreement with the professor if necessary.* |