UNIVERSITETI I MITROVICËS
'ISA BOLETINI'

Course Outline Model (Syllabus)		
Faculty:	Economics	
Name of study program:	Business and Management	
Specialization:	Bank, Finance and Accounting- (BFA) & Management and Entrepreneurship	
Level:	Bachelor	
The code of subject:		
Subject:	Financial Mathematics	
Subject Status:	Compulsory	**(Compulsory or Elective)**
Semester:	Winter	**(Winter / Summer)**
Total hours:	3+2	**(According to approved program)**
ECTS:	6	**(According to approved program)**
Schedule / Hall		
Academic year:	First year, First semsester	
Professor:	Prof. Asoc. Sahit Surdulli	
Assistants:	Msc. Bese Sadikaj PhDc	
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Telefon:		

BRIEF CONTENT OF SUBJECT	Students through this course will be introduced to: - Understanding and calculating simple interest and compound interest - Equalization of decursive and anticipatory deposits - The calculation of the decursive and anticipatory reindeer - Loans, loan amortization - Loan amortization plan, control of amortization plan - Loan conversion - Loan consolidation - Investment profitability review
AIMS	The objective of this course is to provide students with a good understanding of the concepts and methods for calcuation of interest and amortization table.

EXPECTED LEARNING OUTCOMES	On successful completion of this course, student should be able to: 1. Define basic terms in the areas of business calculus and financial mathematics. 2. Explain basic methods of business calculus, types and methods of interest account and their basic applications in practice, 3. Solve problems in the areas of business calculus, simple and compound interest account, use of compound interest account, loan and consumer credit, 4. Discern effects of various types and methods of interest account, 5. Conduct acquired knowledge and skills with practical problems in economic practice.	
PROGRAM	**Weeks**	Topic and Readings
	Week - I	Proportion and percentage calculation
	Week - II	Simple interesnt calculation
	Week - III	Compound interest calculation
	Week - IV	Inflation and time value of money.
	Week - V	Calculation of decursive and anticipatory deposits.
	Week - VI	Calculating the decursive and anticipatory rent.
	Week - VII	Test I
	Week - VIII	Loans and loans amotrization
	Week - IX	Compilation of depreciation plan Depreciation plan Depreciation plan control
	Week – X	Loans with rounded annuities Depreciation plan Depreciation plan control
	Week – XI	Amortization of loans with variable annuities Annuities increase or decrease according to arithmetic progression Annuities increase or decrease according to geometric progression
	Week - XII	Amortization of loans in equal installments Installment and annuity calculation. Depreciation plan Finding outstanding debt and outstanding debt Loans divided into bonds Payment of liabilities sheet according to nominal value. Depreciation plan
	Week - XIII	Investment profitability review Equivalent annual expenditure method The general method for the effectiveness of the investment
	Week - XIV	Loan conversion Loan consulidationn
	Week - XV	Test II

LITERATURE

Basic literature:

[1] Ajet Ahmeti, Matematika financiare , 2015

Additional literature:

Mathematics for Business, 10th edition, Salzman, Miller, Clendenen, Pearson Addison Wesley, 2014

TEACHING METHODOLOGY

Each class will consist of a combination of short lectures, case studies from readings, small group discussions in the classroom, role play simulation, and films and documentaries, depending on the material available.

We will try to invite speakers from different areas of the business to give a lecture on the relevant topics of the day on operations strategy, followed by questions and answers.

Delivery tools/ IT tools

Teaching will take place in the classroom and laboratories through lectures, practical assignments, individual and group interpretations, periodic self-assessments, etc. All these will be realized in theory and in practice by presenting the materials in audiovisual form using moodle etc.

The ratio between the theoretical and practical part of the study

Theoretically, general scientific knowledge based on contemporary literature will be provided. The practical part will mainly be realized through concrete examples from the literature and practical knowledge of private and public production enterprises and for-profit organizations. The relationship between the theoretical and the practical part is given in the tabular part of the study program. Theory-practical ratio **:** 60% theory and 40% practice / case study / seminar paper.

STUDENT LOAD ON THE SUBJECT

Contribution to student workload (which should correspond to student learning outcomes 1 ECTS credit = 25 hours)

Activity	Hours	Day/Week	Total
Lectures	3	15	45
Exercise sessions - theoretical	2	15	30
Field exercises	1	10	10
Practical work	2	2	4
Consultation with the professor / assistant	2	12	24
Colloquiums / seminars	1	15	15
Independent tasks (work)	2	5	10
Student self-study time (in library or at home)	2	5	10
Final exam preparation	1	2	2
Total			**150 hours**

EVALUATION

Evaluation methods [according to the Statute and Regulation of UMIB Studies]	
Tests	2*20% = 40 %
Practical test during exercises	10%
Tasks and essays during the semester	10%
Final exam	30%

ACADEMIC POLICIES

Further guidance:

- **Working with computer**

Written papers must be written in computerised form. In the seminars it is obligatory to respect the criteria for both the visual and the substantive aspects of the required works. Spelling rules and APA style are required during the written work.

- **Ethics in learning**

All students tasks should be the student's work. There will be no tolerance for copying, "borrowing" from the Internet or any other material. The same or similar works will have negative ratings on the student's final grade.

- **Deadlines**

The deadlines will be set in agreement with the students. There will be no tolerance for delays in submission. Student's absence to class when the task is explained does not justify the student for not submitting the paper. The deadline will be given earlier. If student is traveling abroad, he/she must submit their work earlier. The student has the right to request consultation with the professor whenever needed and necessary for the performance of his / her work.

- **Rules of conduct and academic policies:**

o student's active participation in lectures
o participation in discussions, comments and free expression of academic opinion, opinion and attitude (with arguments)
o mandatory independent work and the use of additional sources of information (various scientific websites, scientific journals, conference proceedings etc.)
o adherence to lecture schedules without prejudice to academic freedom (silent cell phones)
o respect for the speech, thoughts and ideas of colleagues
o low tolerance for late arrivals and departures without a valid reason
o preparing and equipping relevant lectures (teacher's obligation).

Mitrovica **Subject teaching professor:**

(Name Surname)

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(Signature)