

SUBJECT SYLLABUS ACADEMIC OVERVIEW INTERNATIONAL SCHOOL OF ECONOMIC & ADMINISTRATIVE SCIENCES

COURSE NAME AND CODE: Financial Mathematics (81118)

PROGRAM:

Bachelor of Business Administration (BBA),
Bachelor of Administration & Service (BA&S)
Bachelor of International Business (BIB)

Bachelor of International Business (BIB)

Bachelor of International Marketing & Logistics Administration (BIMLA)

Bachelor of Economics & International Finance (BEIF)

Bachelor of Gastronomy (GAS)

LEVEL OF STUDY: Undergraduate Programme

GENERAL ACADEMIC INFORMATION							
LATEST UPDATE	2020-2						
ACADEMIC DEPARTMEN T	Finance						
SUBJECT TYPE	Mandatory						
LANGUAGE	Spanish						
	Programme	Semester					
	BBA	4					
	BA&S	4					
SEMESTER	BIB	3					
	BIMLA	4					
	BEIF	3					
	GAS	4					
NUMBER OF							
ACADEMIC	2						
CREDITS							



HOURS OF ACADEMIC WORK	96 C0	ONTACT HOURS	48	HOUR	S OF INDEPENDENT/AUTONOMOU	JS WORK	48		
LEARNING PREREQUISIT ES	 Master basic mathematical concepts to solve equations of one or more unknowns. Remember the properties of real numbers: commutative, associative, distributive, properties of negatives, fractions, exponents, roots, and logarithms. 								
INTERNATIO NAL COMPONENT	 National and international standards, policies, regulations and mores related to the professional field. Vocabulary and technical language to communicate in different cultural contexts. 								
SUSTAINABL E DEVELOPME NT GOALS (SDG)	4. Quality Education								
COURSE DETAI	LS								
COURSE DESCRIPTION	Students related to professions of economic and administrative sciences must know and master the mathematical techniques and operations governed by the principle of the value of money over time, which allow them to make various investment decisions when using interest rates to calculate the profitability of these, the cost of the credits, amortize credits of different modalities or define the price of a contract. This course is necessary to give continuity to the entire financial line, since its bases are required to evaluate credits, investments, define the price of securities, understand the tools used in business financial diagnosis, international business due to its application at rates. exchange, among others.								
KEY WORDS:	Financial mathematics, interest rates, annuity, gradients, amortization tables.								
COMPETENC	EICEA ILOS or Programme ILOS	Course ILO		Гуре	Content	Teaching and Learning strategy	Assessment Method		
ES DEVELOPED	ILO02	series in the	or yment	Skill	Annuities Gradients Perpetuities Amortization Systems	Problems Based Learning	Method: Supervised Practice and Demonstration Technique: Interview and triangulation		



		and in the valuation of companies or projects				Instrument: Check List, Value scales, rubrics.		
	ILO06	Describe the types of interest rates and their conversion to make better financial decisions.	Knowled ge	Simple interest Compound interest Anticipated and Past Due Interest Nominal and Effective Rates Indexed Rates Conversion between interest rates	Theoretical Class	Method: exam, written exam, concept maps. Technique: Documentary and productions analysis, content analysis, and wrappers exam. Instrument: Check List, Value scales, rubrics.		
	ILO02: Critical Thinking: Evaluate information using critical and analytical reasoning to address changing economic and busine situations. ILO06: Understand principles and concepts of administration: Demonstrate specific knowledge in the field according to the level of study (Bachelor).							
BIBLIOGRAP HY	 Bodie, Zvi, Kane & Marcus (2011). Investments. Editorial McGraw Hill. Hull, J., & de Miguel, A. (2009). Introducción a los mercados de futuros y opciones. Pearson Educación. Informes financieros locales e internacionales (Portafolio, La República, Bancolombia, Credicorp Capital, CNBC, Yahoo Finance, etc.) Software y herramientas del laboratorio financiero de la Universidad: Bloomberg, punto BVC, punto BMC, Visual Basic e Internet. 							