	FINAI	NCE N	MATHEMATICS							
1	Course Title:	FINANCI	E MATHEMATICS							
2	Course Code:	ISL2203								
3	Type of Course:	Optional								
4	Level of Course:	First Cycle								
5	Year of Study:	2								
6	Semester:	3								
7	ECTS Credits Allocated:	5.00								
8	Theoretical (hour/week):	3.00								
9	Practice (hour/week):	0.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:	None								
12	Language:	Turkish								
13	Mode of Delivery:	Face to f	ace							
14	Course Coordinator:	rse Coordinator: Prof. Dr. DEĞER ALPER								
15	Course Lecturers:	Prof. Dr. Değer ALPER								
16	Contact information of the Course Coordinator:	Prof. Dr. Değer ALPER dalper@uludag.edu.tr Bursa Uludağ Üniversitesi, İ.İ.B.F, A Blok, 3. Kat İşletme Bölümü								
17	Website:									
18	Objective of the Course:	To give the mathematical knowledge related to infrastructure in creating an effective financial policy in the enterprises and obtaining appropriate investment and financing decisions.								
19	Contribution of the Course to Professional Development:	Capability to make basic mathematical analysis used in financial decisions.								
20	Learning Outcomes:									
		1	To be able to make the cost calculations of borrowing transactions effectively.							
		2	Understand the alternative ways of payment and their costs related to the lending and borrowing transactions in the enterprises.							
		3	Understand the types of stocks and bonds and the valuation methods and to be able to use them in investment decisions.							
		4	To be able to determine the value of investments during the issue of fixed asset investment decisions and choose from the alternatives.							
		5	To be able to make mathematical analysis related to personal financial decision making.							
		6								
		7								
		8								
		9								
		10								
21	Course Content:									
		Co	urse Content:							
Week	Theoretical		Practice							
1	Time Value of Money, Definition and Interest	Types of								

2	Simple Interest: Internal and External	Interest						
3	Simple Discount: Internal and External Discount Calculation and Equivalent							
4	Compound Interest: Nominal and Effe Interest Rates	ective						
5	Compound Discount: Discount Calcu and Equivalent Bonds	lation						
6	Practice Related to Money and Capit Markets Intruments: -Treasury Bill -Commercial Paper -Repo Valuation	al						
7	Payments (Annuity) and Types of Pa Equally Consistent, Changing Consis Deferred Payments							
8	Case Study							
9	Payments (Annuity) and Types of Pa Expedite, Constinuous, Constinuous Deferred, Constinuous and Expedite Payments.							
10	Debt Payments							
11	Debt Payments							
12	Bond Valuation							
13	Stock Valuation							
14	Case Study							
22	Textbooks, References and/or Other Materials:		Finans Matematiği - Zehra Başkaya Finans Matematiği - Nurhan Aydın Finans Matematiği - Emine Ebru Aksoy Finans Matematiği - Sudi Apak, Gökhan Günay Temel Finans Matematiği - Ramazan Aktaş, Ali Alp, M. Mete Doğanay, Ekin Tokat Finans Matematiği - Sıddık Arslan					
23	Assesment							
TERM L	EARNING ACTIVITIES	NUMBE R	WEIGHT					
Midtern	n Exam	1	40.00					
Quiz		0	0.00					
Home v	work-project	0	0.00					
Final E	xam	1	60.00					
Total		2	100.00					
	ution of Term (Year) Learning Activities s Grade	es to	40.00					
Contrib	ution of Final Exam to Success Grade	)	60.00					
Total			100.00					
Measur Course	rement and Evaluation Techniques Us	sed in the	Face to face / online written exam					
24	ECTS / WORK LOAD TABLE							

Activites	ivites								Numb	er		Dura	Duration (hour)			Total Work Load (hour)	
Theoretical												3.00			42.00		
Practicals/L	Practicals/Labs											0.00	0.00			0.00	
Self study a	and pi	repera	ition					1	14			4.00			56.00		
Homework	S							(	)			0.00			0.00		
Projects								(	)			0.00	0.00			0.00	
Field Studie	es							(	0			0.00			0.00		
Midterm ex	ams							1	1			26.00			26.00		
Others								(	0			0.00			0.00		
Final Exam	ıs							1	1			26.00	26.00			26.00	
Total Work	Load												176.00				
Total work	Total work load/ 30 hr														5.00		
ECTS Cred	ECTS Credit of the Course														5.00		
25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16	
ÖK1	0	1	0	4	3	0	0	1	0	0	0	0	0	0	0	0	

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16
ÖK1	0	1	0	4	3	0	0	1	0	0	0	0	0	0	0	0
ÖK2	0	1	0	4	3	0	0	2	0	0	0	0	0	0	0	0
ÖK3	0	2	0	5	3	0	0	2	0	0	0	0	0	0	0	0
ÖK4	0	1	0	5	3	0	0	2	0	0	0	0	0	0	0	0
ÖK5	0	1	0	5	3	0	0	2	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	ion			2	2 low	3 Medium			4 High			5 Very High				