	STATI	STICS	FOR FINANCE							
1	Course Title:	STATIS	TICS FOR FINANCE							
2	Course Code:	EKO5123								
3	Type of Course:	Optional								
4	Level of Course:	Second	Cycle							
5	Year of Study:	1								
6	Semester:	1								
7	ECTS Credits Allocated:	4.00								
8	Theoretical (hour/week):	2.00								
9	Practice (hour/week):	0.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:	None								
12	Language:	Turkish								
13	Mode of Delivery:	Face to face								
14	Course Coordinator:	Prof. Dr. SEVDA GÜRSAKAL								
15	Course Lecturers:									
16	Contact information of the Course Coordinator:	Prof. Dr. Sevda GÜRSAKAL Uludağ Üniv. İİBF Ekonometri Bölümü Görükle Kampüsü Bursa Tel: 0.224.2941112 sdalgic@uludag.edu.tr								
17	Website:									
18	Objective of the Course:	Aim of the course is defining risk and risk analysis, teaching statistical risk analysis methods.								
19	Contribution of the Course to Professional Development:	It has a contribution towards forming a basis for the development of students' professional skills related to statistical risk analysis.								
20	Learning Outcomes:									
		1	To be able to learn basic information about risk and risk analysis concepts, relationship between risk and uncertanity.							
		2	To be able to learn and apply basic statistical methods for risk analysis.							
		3	To be able to learn theory of Probability, importance of probability for risk analysis, discrete and continuous probability distributions.							
		4	To be able to learn types of risks faced in the financial sector.							
		5	To be able to learn concept of risk management and traditional risk management methods.							
		6	To be able to learn an important risk management method called Value at Risk and it's parameters.							
		7	To be able to learn and apply Variance-Covariance (Var-Cov), Delta Normal and Delta Gamma methods.							
		8	To be able learn and calculate nonparametric methods used for calculating Value at Risk.							
		9								
		10								
21	Course Content:									
		Co	ourse Content:							
Week	Theoretical		Practice							

1	Basic Co	oncept	s of Ri	isk An	alysis											
2	Theory of	of Prob	ability													
3	Monte C	arlo S	imulati	ion												
4	Random	Proce	esses													
5	Probabil	ity Dis	trubuti	ons												
6	Quantify Paramet		certai	nty At	oout Mo	odel										
7	Building	Risk A	nalysi	is Moo	del											
8	Fitting D	istrubu	utions	to Dat	ta											
9	Defining	Distru	bution	s fron	n Expe	rt Opi	nion									
10	Monte C	arlo S	imulati	ion Ap	oplicatio	ons										
11	Assesm	ent of I	Model													
12	Risk Ass	sesmei	nt													
13	İnsuranc	e Risk	mode	eling												
14	Finance	Risk N	/lodelii	ng												
22	Textboo Material	es an	d/or Of	ther		 1- Risk Analysis: A Quantitative Guide , David Vose WILEY; 3 EDITION (MAY 19, 2008) 2- Probabilistic Risk Analysis: Foundations And Methods Tim Bedford And Roger Cooke ;Cambridge University Press; 1 Edition 2001) 										
Activites							1	Numb	er		Duration (hour)			Total Work Load (hour)		
Theore	29re Kssesment											2.00			28.00	
Practica	als/Labs							0)			0.00			0.00	
Self study and properation									4			3.00			42.00 30.00	
Homeworks									2			15.00	15.00			
Project	S work proj	oot				0						0.00			0.00	
Field S								C) 			0.00			0.00	
	n exams					1						0.00			0.00	
Others	Others									0 090					0.00	
Einal Exams Success Grade								1	.			25.00			25.00	
	Vork Load							_							125.00	
Total	Total work load/ 30 hr								0.00					4.17		
	Credit of rement a			n rec	nnique	s Use	a in the					uation a nd writt		iae with	4.00 muitipie	
24	·					. —										
	ECTS	WO	RK L	OAD	TAB	LE										
25	ECTS									OUTC ATIO		S TO I	PROG	GRAM	ME	
	ECTS		CON	TRIB	UTIO	N OF		UAI		ATIO			PQ1	PQ14	ME PQ15	PQ16
	ECTS		CON	TRIB	UTIO	N OF	Q	UAI PQ8			NS					PQ16 0
25	ECTS	PQ2	CON PQ3	TRIE PQ4	UTIO PQ5	N OF	Q PQ7 F	UAI PQ8	LIFIC PQ9	ATIO PQ1 0	NS PQ11	PQ12	PQ1 3	PQ14	PQ15	

Contrib ution	Contrib 1 very low				2 low			3 Medium			4 High			5 Very High			
LO: Learning Objectives PQ: Program Qualifications																	
ÖK8	4	4	4	2	3	4	3	3	4	4	4	4	0	0	0	0	
ÖK7	4	4	4	3	4	4	3	3	4	4	4	4	0	0	0	0	
ÖK6	4	4	4	4	3	3	3	3	4	4	4	4	0	0	0	0	
ÖK5	1	4	2	1	1	3	1	1	1	1	1	1	0	0	0	0	
ÖK4	1	4	2	1	1	3	1	1	1	1	1	1	0	0	0	0	