

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Stochastic Pr	ocesses in Fin	ance								
Course Code	UEK513		Couse Level		Couse Level		Second Cycle (Master's Degree)		Second Cycle (Master's Degree)		
ECTS Credit 5	Workload	126 (Hours)	Theory	/	3	Practice	0	Laboratory	0		
Objectives of the Course											
Course Content											
Work Placement N/A											
Planned Learning Activities and Teaching Methods Explanation (Presentation)											
Name of Lecturer(s)											

Assessment Methods and Criteria					
Method	Quantity	Percentage (%)			
Midterm Examination	1	40			
Final Examination	1	60			

Recommended or Required Reading

1 Mustafa Sevüktekin, Ekonometriye Giriş, Dora Yayınları, 2013, Bursa.

Week	Weekly Detailed Co.	urse Contents					
1	Theoretical	Introduction					
2	Theoretical	Some basic concepts in finance					
3	Theoretical	Introduction to stochastic processes					
4	Theoretical	Discrete-time and continuous-time stochastic processes					
5	Theoretical	Martingales					
6	Theoretical	Martingales					
7	Theoretical	Single period securities models					
8	Theoretical	Midterm					
9	Theoretical	Multiperiod securities models					
10	Theoretical	Asset price dynamics and stochastic processes, Brownian processes					
11	Theoretical	Asset price dynamics and stochastic processes, Brownian processes					
12	Theoretical	Asset price dynamics and stochastic processes, Brownian processes					
13	Theoretical	Asset price dynamics and stochastic processes, Brownian processes					
14	Theoretical	Option pricing models					

Workload Calculation					
Activity	Quantity	Preparation	Duration	Total Workload	
Lecture - Theory	14	6	3	126	
Total Workload (Hours)					
[Total Workload (Hours) / 25*] = ECTS					
*25 hour workload is accepted as 1 ECTS					

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advanced level research



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Prog	Programme Outcomes (Applied Econometry Interdisciplinary Master)						
1	Will be able to collect data related to social and economic topics.						
2	Will be able to get raw data ready for statistical and econometric analysis.						
3	Will be able to build econometric models that describe the data generating process behind data.						
4	Will be able to interpret the results that are obtained through econometric analysis.						
5	Will be able to conduct an independent empirical research project from start to finish.						

Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L4	L5
P1	3	2	1	4	5
P2	2	2	2	3	5
P3	3	5	4	2	2
P4	5	3	3	3	5
P5	5	4	2	2	4

