

COURSE RECORD

Code	BA 407
Name	Financial Derivatives
Hour per week	3 (3+0)
Credit	3
ECTS	5
Level/Year	Undergraduate 3-4
Semester	Spring
Type	Elective
Prerequisites	BA 207
Description	The course covers the following topics: futures and forward contracts, options, swaps, pricing the financial derivatives and Greeks (risk management). This course starts with the review of portfolio optimization theory and CAPM (Capital Asset Pricing Model). By the end of this course students are expected to have a good knowledge of how financial contracts work, where to use them, and how they are priced. Individuals who are capable of analyzing financial derivatives are in great demand as an analyst in stock exchange markets, commodity markets and financial intermediaries throughout the world.
Objectives	Provide fundamental knowledge for derivatives market. Introduce financial risk hedge tools.
Learning Outcomes	<i>By the end of the course, the student will be able to</i> L01. Interpret how the financial derivatives work L02. Differentiate the mechanics of derivative assets L03. Discuss which hedge strategy is better L04. Explain how the risk can be assessed

CONTRIBUTION TO PROGRAMME OUTCOMES*

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
L01	5	5	3	4	2	4	2	4	4	5
L02	5	5	3	4	2	4	2	4	4	5
L03	5	5	3	4	2	5	2	4	4	5
L04	5	5	3	4	2	5	2	4	4	5

* Contribution Level: 0: None, 1: Very Low, 2: Low, 3: Medium, 4: High, 5: Very High

COURSE CONTENT DETAILS

Topics	Outcomes
Introduction to Derivatives Markets	L01, L02, L03, L04
Forward and Futures Pricing	L01
Hedging With Futures	L01
Interest Rates and Duration	L01, L02
SWAPS	L01, L02
Options Markets	L02
Binominal Model	L02, L03
Black-Scholes-Merton Model	L02, L03, L04

DERS BİLGİLERİ

Kodu	BA 407
İsmi	Finansal Türevler
Haftalık Saati	3 (3+0)
Kredi	3
AKTS	5
Seviye/Yıl	Lisans / 3-4
Dönem	Bahar
Dersin Dili	İngilizce
Tip	Seçmeli
Ön Şart	BA 207
İçerik	Bu ders (i) vadeli işlem ve forward sözleşmelerini, (ii) opsiyonları, (iii) swapları, (iv) finansal türevleri ve (v) Greek (risk yönetimini) fiyatlandırmayı kapsar. Bu dersin sonunda öğrencilerin finansal sözleşmelerin nasıl işlediğine, nerede kullanılacağına ve nasıl fiyatlandırıldığına dair iyi bir bilgi sahibi olması beklenir. Finansal türevleri analiz edebilen bireyler, borsa piyasalarında, emtia piyasalarında ve dünya çapında finansal araçlarda analist olarak büyük talep görmektedir.