

## THE CYPRUS INTERNATIONAL INSTITUTE OF MANAGEMENT

Course Unit Title	Derivatives and Financial Engineering		
Course Unit Code	FB530		
Type of Unit	Core		
Level of Course Unit	Second cycle		
Year of Study	First / second year		
Semester	On demand		
Number of ECTS Credits	6.0 ECTS		
Class Contact Hours	28		
Minimum Learning Effort	112		
(In Hours)			
Course Unit Objectives	The aim of this course is to provide market participants with an in- depth knowledge of the structure and mechanics of the derivatives market/products, as well as the tools needed to price these instruments. A derivative is a financial instrument whose value is derived from some other, more basic, underlying asset (stock, bond, commodity, etc.). In the last 40 years or so and since the inception of the famous Black-Scholes option pricing formula (1973), these markets have experienced tremendous growth and innovation. If derivatives products are used properly, they can be extremely useful for hedging (limiting) risk exposure. Unfortunately, the improper use of these instruments, namely for speculation, has led to a wide criticism and accusations among market participants and policy makers, especially in light of the recent global financial crisis. Thus a deep understanding of derivatives is imperative for all finance professionals.		
Learning Outcomes	The students co	mpleting the course should be able to	
	CILO 1	Acquire a thorough overview of the structure and mechanics of the derivatives markets	
	CILO 2	Recognise the characteristics of derivative contracts, such as futures, forwards, options and swaps	
	CILO 3	Recognise the various ways these assets can be employed	
	CILO 4	Recognise how to value these contracts	
Name of Lecturer(s)			
Mode of delivery	Face to Face		
Prerequisites or co- requisites	None		
Course Content	<ol> <li>Introduction to Derivatives/Mechanics of Futures and Forward Markets</li> <li>Hedging Strategies using Futures/Determination of Forward and Futures Prices</li> <li>Mechanics of Option Markets</li> <li>Properties of Stock Options/Option Valuation</li> </ol>		

## COURSE UNIT DESCRIPTION

	5. Trading Strategies Involving Options		
	6. Swaps		
Recommended or required	Lecture notes will be available on Moodle. A recommended		
reading	(optional) textbook for the course is "Options, Futures, and Other		
	Derivatives", by John C. Hull, 9th edition, Pearson Prentice Hall,		
	2014.		
Planned learning activities	Lectures, in-class assignments, in-class debates and discussion,		
and teaching methods	presentations		
Assessment methods and	60%: Final Exam		
criteria	30% In class examination (mainly on Options, Strategies and		
	Binomial Model).		
	10% Class Participation and Professionalism		
Language of Instruction	English		
Work Placement(s)	Not applicable		