
INTERNATIONAL MONETARY FUND
Institute for Capacity Development (ICD)—Joint Vienna Institute (JVI)
Course on Financial Markets and Instruments (JV17.21)

Vienna, Austria
July 17 – 28, 2017
Draft PROGRAM*

Monday, July 17

8:30 a.m.–9:00 a.m.		Administrative Briefing
9:00 a.m.–9:30 a.m.		Opening Session Mr. Thomas Richardson, Director, JVI, Mr. Christian Johnson, Senior Economist, IMF ICD; Mr. Marco Rodriguez, Senior Economist, IMF ICD; Mr. Burkhard Drees, Consultant, IMF ICD.
9:30 a.m. – 10:15 a.m.		Test Session
10:30 a.m.–11:30 a.m.	L-1	Introductory Lecture Mr. Johnson <ul style="list-style-type: none">• Markets: their functions and participants• Market structures and liquidity provision
11:45 a.m.–12:45 p.m.	L-2	Financial Markets and the Macroeconomy Mr. Rodriguez <ul style="list-style-type: none">• The nature of financial markets: The allocation of resources across time and under uncertainty
2:00 p.m.–3:30 p.m.	L-3	Basic Valuation of Bonds, Stocks, and Mr. Rodriguez <ul style="list-style-type: none">• Valuation of fixed income securities• Term Structure and Duration
4:00 p.m.–5:30 p.m.	L-4	Portfolios: Analysis and Valuation Mr. Johnson <ul style="list-style-type: none">• Portfolio analysis and diversification• Capital Asset Pricing Model (CAPM)

* Coffee breaks will be held from 10:30 a.m.–11:00 a.m. and from 3:30 p.m.–4:00 p.m., unless otherwise indicated.
Lunch breaks will be from 12:30 p.m.–2:00 p.m.

Tuesday, July 18

9:00 a.m.–12:30 p.m.	L–5	Value-at-Risk: Measuring Risk and Forecasting Volatilities Mr. Johnson
		<ul style="list-style-type: none">• Nature and mechanics of computing VaR• Historical and Montecarlo simulation• Forecasting volatilities: EWMA and GARCH models
	W–1	Workshop: Applications of Value-at-Risk for market and credit risk
2:00 p.m.–5:30 p.m.	L–6	Methods for Evaluating Credit and Counterparty Risk Mr. Drees
		<ul style="list-style-type: none">• The transition matrix• Expected loss (EL) and Loss Given Default (LGD)• Merton and KMV models: an introduction to measuring default
	W–2	Workshop: Application of methods for evaluating credit and counterparty risk

Wednesday, July 19

9:00 a.m.–12:30 p.m.	L–7	Forwards and Futures Mr. Rodriguez
		<ul style="list-style-type: none">• Futures and forward contracts defined• Market structures: default risk, margin/collateral accounts, and role of centralized counterparts (CCPs)• Pricing forwards and futures• Hedging and speculating
2:00 p.m.–5:30 p.m.	W–3	Workshop: Case study and exercises on forward and futures contracts

Thursday, July 20

9:00 a.m.–12:30 p.m.	L–8	Swaps Mr. Johnson
		<ul style="list-style-type: none">• Forward rate agreements (FRAs)• Interest rate swaps: definition, valuation and pricing• Exchange rate swaps• Dynamics of swap spreads
	W–4	Workshop: Exercises to understand the mechanics and properties of swaps.
2:00 p.m.–5:30 p.m.	L–9	Options Basics Mr. Rodriguez
		<ul style="list-style-type: none">• Definitions, types of options contracts• Payoff diagrams and options strategies• Put-Call parity
	W–5	Workshop: Exercises on the operation of options

Friday, July 21

- 9:00 a.m.–12:30 p.m. L-10 **Options Pricing**
Mr. Rodriguez
- Variables affecting options values
 - Binomial options pricing model
 - Risk-neutral pricing and American options
- W-6 **Workshop:** Exercises on the operation of options
- 2:00 p.m.–5:30 p.m. L-11 **Special topic: Futures Markets, Hedging, and the Operation of Centralized Counterparties**
Mr. David Gibbs (Chicago Mercantile Exchange)
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Monday, July 24

- 9:00 a.m.–12:30 p.m. L-12 **Repo Market and Collateral Management**
Mr. Johnson
- Definition of a repo
 - Examples
 - Collateral management
- W-7 **Workshop:** Case study on the repo market
- 2:00 p.m.–5:30 p.m. L-13 **Credit Derivatives**
Mr. Drees
- Credit default swaps
 - CDS Indices and their uses
 - Global credit derivatives market
 - Implications for financial stability
- W-8 **Workshop:** Case Study on the CDS fallout of the Lehman failure and AIG
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Tuesday, July 25

- 9:00 a.m.–12:30 p.m. L-14 **Securitization and Structured Finance**
Mr. Drees
- Securitization taxonomy
 - Covered bonds
 - Structured finance
 - CDOs and other instruments (off-balance sheet vehicles)
 - Policy issues
- 2:00 p.m.–3:30 p.m. W-9 **Workshop:** The good and bad of securitization
- 4:00 p.m.–5:30 p.m. O-1 **Preparation for Participants' Presentations**
Messrs. Johnson, Rodriguez, Drees
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Wednesday, July 26

9:00 a.m.–12:30 p.m.	L-15	Motivation and Current Issues for Regulation of Securities Markets and Derivatives Mr. Drees
		<ul style="list-style-type: none">• Objectives of securities regulation• Regulation of OTC derivatives• Regulation of credit ratings agencies• Regulation of the asset management industry
2:00 p.m.–5:30 p.m.	W-10	Workshop: Case studies on Bear Stearns and on LTCM

Thursday, July 27

9:00 a.m.–10:30 a.m.	L-16	Summary and Recap of the Course Mr. Drees
11:00 a.m.–12:30 p.m.	O-2	Preparation for Participants' Presentations Messrs. Johnson, Rodriguez, Drees
2:00 p.m.–3:30 p.m.	O-3	Preparation for Participants' Presentations Messrs. Johnson, Rodriguez, Drees
3:45 p.m.–5:30 p.m.	O-4	Participants' Presentations Messrs. Johnson, Rodriguez, Drees

Friday, July 28

9:00 a.m.–9:45 a.m.		Test Session
10:15 a.m.–12:00 p.m.		Closing Session
		<ul style="list-style-type: none">• Course evaluations• Presentation of certificates
