INTERNATIONAL MONETARY FUND

IMF Institute for Capacity Development (ICD) Joint Vienna Institute (JVI)

Course on External Vulnerabilities and Early Warning Exercise (JV 15.37)

Vienna, Austria

December 7-18, 2015 Program¹

Monday, December 7		
9:00 a.m. – 9:20 a.m.		Administrative Briefing Mr. Maksym Dutsyak Leint Vienne Institute (IVI)
9:20 a.m. – 9:30 a.m.		Joint Vienna Institute (JVI) Opening Session
		Mr. Norbert Funke, Director, JVI, Mr. Gianni De Nicolò, Senior Economist, IMF ICD; Mr. Seung Mo Choi, Economist, IMF ICD; Mr. Maksym Ivanyna, Economist, JVI.
9:30 a.m. – 10:00a.m.		Initial Test
10:00 a.m. – 10:15a.m.		Coffee Break
10:15 a.m. – 11:45p.m.	L-0	Vulnerabilities and Crises Mr. De Nicolò
		 Sources of fiscal, financial and external vulnerabilities Debt, banking, and currency crises Impact of crises on growth and welfare
		4. Course objectives and roadmap
2:00 p.m. – 5:15p.m	Unit 1	Forecasting methods for tail risks Mr. De Nicolò and Mr. Ivanyna
	L-1	 Definition and measurement of tail risks Methods to signal and predict distress and crises: a. Probit/Logit regressions
	W-1	b. Quantile regressions Predicting currency crises via Probit/Logit regressions

¹ Unless otherwise stated, coffee breaks will be held from 10:30 a.m.-10:45 a.m. and from 3:30 p.m.-3:45 p.m.

9:00 a.m. – 12:15 p.m.	Unit 2	Fiscal Vulnerabilities I: Assessing Debt Sustainability Mr. Ivanyna
	L-2	 Debt sustainability, debt crises, and growth Deterministic debt sustainability analysis in closed and open economies Risk-based DSA
	W-2	 Debt-stabilizing primary balance IMF's approach to DSA Thresholds for short-term debt, financing needs
2:00 p.m. –5:15 p.m.	Unit 3	Financial Vulnerabilities I: Taxonomy and measurement of financial risks Mr. Choi
	L-3	 Financial risks taxonomy Indicators of risks (CAMEL) Financial soundness indicators
	W-3	Workshop on financial soundness indicators
Wednesday, December 9)	
9:00 a.m. – 12:15 p.m.	Unit 4	External Vulnerabilities I: Bond yields and sovereign default risk
	L-4	Mr. Ivanyna1. Determinants of sovereign risk and defaults:a. Market perceptions vs. macroeconomic fundamentalsb. Vicious circle of default probability and financing needs
		2.Rollover and financing risks indicators3.Market valuations of sovereign default riskDeterminants of sovereign risk and fiscal crisis
	W-4	3.Market valuations of sovereign default risk
2:00 p.m. – 5:15 p.m.	W-4 Unit 5	3.Market valuations of sovereign default risk Determinants of sovereign risk and fiscal crisis
2:00 p.m. – 5:15 p.m.		3.Market valuations of sovereign default risk Determinants of sovereign risk and fiscal crisis Analysis of sovereign risk Financial Vulnerabilities II: Implementing Stress Testing

Thursday, December 10)	
9:00 a.m. – 12:15p.m.	Unit 6	Fiscal Vulnerability II: Short-term risks Mr. Ivanyna
	L-6	 Interest rate growth differential and public debt Growth and interest rate shocks and debt sustainability Stochastic DSA
	W-6	Stochastic DSA
2:00 p.m. – 5:15 p.m.	Unit 7	External Vulnerabilities II: Current Account Imbalances Mr. Choi
	L-7	 External vulnerability indicators External balance assessment (EBA)
	W-7	External balance assessment (EBA)
Friday, December 11		
9:00 a.m. – 12:15 p.m.	Unit 8	Financial Vulnerabilities III: Financial Cycles, Business Cycles and Systemic Risk Mr. De Nicolò
	L-8	 Financial cycles and business cycles Financial stress and economic downturns Systemic risk measurement: indicators and CoVar
	W-8	Detecting Financial Vulnerabilities
2:00 p.m. – 5:15p.m.	Unit 9	Fiscal Vulnerability III: From Fiscal Stance to Fiscal Gaps Mr. Ivanyna
	L-9	 Debt level and debt sustainability Fiscal gaps: Definition and arithmetic Long-term adjustment needs to satisfy government intertemporal budget constraint
	W-9	 Public debt thresholds Arithmetic of fiscal gaps and long-term adjustment needs

Monday, December 14		
9:00 a.m. – 12:15p.m.	Unit 10	Financial Vulnerability IV: Spillovers and Contagion <i>Mr. Choi</i>
	L-10	 Cross-Sectional Components SIFI Identification Network Approach Network Measures of Systemic Risk Diebold-Yilmaz CoVaR
	W-10	Illustration of a network model
2:00 p.m. – 5:15p.m	Unit 11	External Vulnerability III: Reserve Adequacy Mr. De Nicolò
	L-11	 Definition of reserve adequacy Trends in reserve holdings Analytics of reserve holdings Normative assessments of reserve holdings
	W-11	International Reserves Adequacy Metrics
Tuesday, December 15		
9:00 a.m. – 12:15 p.m.	Unit 12	The IMF's Vulnerability Exercise for Advanced Economies (VEE) Mr. Choi
	L-12	 Mechanics of the VEE Sectoral/Market Vulnerability Indices
	W-12	A VEE Exercise
2:00 p.m. – 5:15 p.m.	Unit 13	The IMF's Vulnerability Exercise for Advanced Economies (VEA) Mr. De Nicolò
	L-13	 Mechanics of the VEA Selected methods
	W-13	A VEA Exercise

9:00 a.m. – 12:15p.m.	Unit 14	Vulnerability Assessment Warm-Up Counselors
	W-14	Vulnerabilities through a case study: A helicopter tour
2:00 p.m. – 5:15 p.m.	Unit 15.1	Case Studies: Preparation for Participant presentations
Thursday, December 17	,	
9:00 a.m. – 12:15p.m.	Unit 15.2	Case Studies: Preparation for Participant presentations Facilitated by counselors
2:00 p.m. – 3:30 p.m.	Unit 15.3	Case Studies: Preparation for Participant presentations Facilitated by counselors
3:45p.m5.15p.m.	O-1	Case Studies: Participant presentations
Eviday Dagambar 10		
<i>Friday, December 18</i> 9:30 a.m. – 11:00 a.m.		Final Test and Course Evaluation
11:00 a.m. – 12:00 p.m.		Closing Session and Presentation of Certificates