INTERNATIONAL MONETARY FUND

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

Course on Vulnerability Diagnostics (JV16.33)

Vienna, Austria

December 5-16, 2016

Program¹

Monday, December 5		
9:00 a.m.– 9:20 a.m.		Administrative Briefing Ms. Tatiana Bredniakova Joint Vienna Institute (JVI)
9:20 a.m. – 9:30 a.m.		Opening Session Mr. Martin Schindler, Deputy Director, JVI; Mr. Gianni De Nicolò, Senior Economist, IMF ICD; Ms. Asel Isakova, Economist, JVI; Mr. Burkhard Drees, IMF Consultant.
9:30 a.m. – 10:00 a.m.		Initial Test
10:00 a.m. – 10:15 a.m.		Coffee Break
10:15 a.m. – 11:45 a.m.	L-0	Vulnerabilities and Crises Mr. De Nicolò
		 Macroeconomic stability and crises Vulnerabilities and crises Structure of the course
2:00 p.m. – 5:15 p.m.	Unit 1	Forecasting Methods for Tail Risks Mr. De Nicolò
	L-1	 Defining and measuring tail risks Logit models A signal approach: ROC analysis
	W-1	External Vulnerabilities and Currency Crises

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.

Tuesday, December 6		
9:00 a.m. – 12:15 p.m.	Unit 2	Fiscal Vulnerabilities I: Assessing Debt Sustainability Ms. Isakova
	L-2	 Debt sustainability, debt crisis, and growth Deterministic DSA in closed and open economies Risk-based DSA
	W-2	Assessing debt sustainability: debt-stabilizing primary balance, IMF's approach to DSA
2:00 p.m. – 5:15 p.m.	Unit 3	Financial Vulnerabilities I: Taxonomy and Measurement of Financial Risks <i>Mr. Drees</i>
	L-3	 Taxonomy of financial risks Measurement of financial risks
	W-3	Measurement of risks and introduction to stress testing
Wednesday, December 7		
9:00 a.m. – 12:15 p.m.	Unit 4	External Vulnerabilities I: Bond Yields and Sovereign Default Risk Ms. Isakova
	L-4	 From fiscal distress to external crisis Theory of sovereign default risk Assessing risks in practice
	W-4	Explaining Sovereign Bond Interest Rates
2:00 p.m. – 5:15 p.m.	Unit 5	Financial Vulnerabilities II: Detecting Financial Fragility <i>Mr. Drees</i>
	L-5	 Overview of stress testing Single-factor sensitivity analysis Identifying stress testing scenarios: a case study.

Thursday, December 8		
9:00 a.m. – 12:15 p.m.	Unit 6	Fiscal Vulnerability II: Short-term risks Ms. Isakova
	L-6	 Interest rate growth differential and public debt Refined analysis of growth and interest rate shocks
	W-6	Refined analysis of growth and interest rate shocks
2:00 p.m. – 5:15 p.m.	Unit 7	External Vulnerabilities II: Current Account Imbalances Mr. Drees
	L-7	 Current account imbalances External balance assessment (EBA)
	W-7	External Balance Assessment (EBA)
Friday, December 9		
9:00 a.m. – 12:15 p.m.	Unit 8	Financial Vulnerabilities III: Systemic Risk and Financial Cycles Mr. De Nicolò
	L-8	 Systemic risk Financial Cycles Measurement of Cycles
	W-8	Financial cycles and banking distress
2:00 p.m. – 5:15 p.m.	Unit 9	Fiscal Vulnerability III: Stochastic DSA Ms. Isakova
	L–9	 Stochastic DSA vs. deterministic DSA Main steps of stochastic DSA: estimating relationship between DSA inputs, fiscal reaction function, simulations
	W-9	Stochastic DSA

Monday, December 12		
9:00 a.m. – 12:15 p.m.	Unit 10	External Vulnerability III: Reserve Adequacy Mr. Drees
	L-10	 FX Reserves: definition, composition and trends Analytics of reserve holdings Normative assessments of reserve holdings
	W-10	International Reserves Adequacy
2:00 p.m. – 5:15 p.m.	Unit 11	Financial Vulnerability IV: Spillovers and Contagion Mr. De Nicolò
	L-11	 Assessing systemic linkages: network analysis Systemic risk measurement: VaR, CoVaR and ΔCoVaR
	W-11	VaR , $CoVaR$ and $\Delta CoVaR$
Tuesday, December 13		
9:00 a.m. – 12:15 p.m.	Unit 12	Fiscal Vulnerabilities IV: Long-term risks Ms. Isakova
	L-12	 Debt level and fiscal space Fiscal gaps: full account of government assets and liabilities Medium- and long-term fiscal adjustment needs
	W-12	Debt level thresholds; arithmetic of fiscal gaps and long- term adjustment needs
2:00 p.m. – 5:15 p.m.	Group Workshop	Case Studies: Preparation for Participant Presentations

Wednesday, December 14			
9:00 a.m. – 12:15 p.m.	Unit 13	The IMF Vulnerability Exercises Mr. De Nicolò	
	L-13	 Structure Overview of key methodologies Putting it all together 	
	W-13	Constructing a Vulnerability Index	
2:00 p.m. – 5:15 p.m.	Group Workshop	Case Studies: Preparation for Participant Presentations	
Thursday, December 15			
9:00 a.m. – 12:15 p.m.	Group Workshop	Case Studies: Preparation for Participant Presentations Facilitated by counselors	
2:00 p.m. – 3:15 p.m.	Group Workshop	Case Studies: Preparation for Participant Presentations Facilitated by counselors	
3:30 p.m. – 5.15 p.m.	O-1	Case Studies: Participant Presentations	
Friday, December 16			
9:00 a.m. – 10:45 a.m.		Final Test and Review	
10:45 a.m. – 12:00 p.m.		Course Evaluation and Presentation of Certificates	