ANNEX I: Curricula of Phase in Japan

			Subjects		1		
Outputs	Category	Seismology group	Earthquake Engineering group	Tsunami Disaster Mitigation group	Methodology		
		(S group)	(E group)	(T group)			
(1) To acquire			Orientation		Lecture		
basic concepts and theories (general)	Basic Subjects Related with Earthquake and Disasters	Information Technology Related with Earthquakes and Disasters	Structural Analysis	Information Technology related with Earthquakes and Disasters	Lecture, Practice and Seminar		
		Earthquake Phenomenology	Ground Vibration and Structural Dynamics	Earthquake Phenomenology			
	Advanced Subjects Related with Earthquake and Disasters	Earthquake Circumstance	Seismic Structures	Earthquake Circumstance	Lecture, Practice and Seminar		
		Characteristics of Earthquake Disasters	Seismic Evaluation and Seismic Design Code	Theory of Tsunami			
		Special Topics (S)	Special Topics (E)	Special Topics (T)			
(2) To acquire basic concepts and theories (detail)	Earthquake/ Tsunami Hazard and Risk Assessment	Earthquake Hazard Assessn	nent A	Tsunami Hazard	Lecture, Practice and Seminar		
		Earthquake Hazard	Earthquake Risk	Assessment Tsunami Countermeasures			
		Assessment B	Assessment				
(3) To understand new countermeasu	Case Studies		aster - Recovery Managemer		Lecture,		
		Practice for Earthquake Dis	aster - Recovery	Practice for Tsunami	Practice,		
		Management Policy III		Disaster Mitigation Policy	Seminar and Presentation		
res (4) To complete a research report	Master Thesis Seminar		r the topics of Master Thesis		Practice,		
		- Determination of Earthquake Source Parameters	- Nonlinear Earthquake Response Analysis and Damage Prediction	- Tsunami Simulations: Propagation and Inundation	Seminar and Presentation		
		- Earthquake Source Process	- Seismic Isolation and Response Control Techniques	- Tsunami Source Modeling due to Earthquake			
		- Seismotectonics (e.g., Stress field estimation, seismicity analysis)	- Seismic Performance- Based Design	- Tsunami Hazard Assessment from Tsunami Simulations			
		- Earthquake Generation and Forecasting	- Seismic Evaluation and Retrofitting Techniques of Existing structures	- Tsunami Risk Assessment			
		- Crust and Upper Mantle Structure Determination using Seismic Tomography, Receiver Function, Ambient Noise, etc.	- Post-Earthquake Damage Inspection and Damage Classification	- Tsunami Database for Tsunami Early Warning System (TEWS)			
		- Site Effect Studies using Strong Ground Motion Records	- System Identification and Health Monitoring	- Rapid Determination of Earthquake Parameters for TEWS			
		- Geophysical Prospecting using Microtremors and Surface Waves	- Effects of Surface Geology on Seismic Motion and Soil-Structure Interaction	- Real Time Usage of Observed Tsunami Data for TEWS			
		- Strong Ground Motion Simulation	- Geotechnical Engineering and Foundation Structures	- Tsunami Earthquakes			
		- Earthquake Early Warning	- Others (e.g., Strategies for Earthquake Disaster Mitigation)	- Non-tectonic Tsunami (Volcanic Eruption, Landslide)			
		- Others (e.g., Crustal Deformation, Volcano Seismology, Application of Machine Learning)		- Others (e.g., Tsunami Evacuation Planning)			
5)(for Master							
Program)	Management Disaster Management Policies B: from Urban and Community Aspect Policy				Seminar and Presentation		

* It is mandatory for the applicants to select one of the topics listed in this table and to write it explicitly in the face page of Inception Report. For those who select '-Others', it is mandatory to describe a concrete plan of Individual Study including the expected supervisor's name and affiliation.