ANNEX I: Curricula of Phase in Japan

Details of Subjects are explained in ANNEX IV

Outputs	Subjects				Methodology
	Category	Seismology group	Earthquake Engineering group	Tsunami Disaster Mitigation group	
		(S group)	**(E group)**	**(T group)**	
(1) To acquire basic concepts and theories (general)	Orientation	Orientation			Lecture
	Basic Subjects Related with Earthquake and	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 Assessment A		Tsunami Hazard Assessment	Lecture, Practice and Seminar
		Earthquake Hazard Assessment B	Earthquake Risk Assessment	Tsunami Countermeasures	
(3) To understand new countermeasures	Case Studies	Practice for Earthquake Disaster - Recovery Management Policy I, II			Lecture, Practice, Seminar and Presentation
		Practice for Earthquake Disaster - Recovery Management Policy III		Practice for Tsunami Disaster Mitigation Policy	
(4) To complete a research report	Individual Study	Menu for the topics of Individual Study			Practice, Seminar and Presentation
		- Determination of Earthquake Source Parameters	***- Nonlinear Earthquake Response Analysis and Damage Evaluation***	***- Tsunami Simulation***	
		- Study on Seismotectonics Based on Earthquake Parameter Determination	***- Seismic Isolation and Response Control Techniques***	***- Tsunami Source***	
		- Moment Tensor Analyses	***- Seismic Performance Design Method***	***- Tsunami Hazard Assessment (Tsunami Propagation and Inundation***	
		- Analysis of Earthquake Source Process	***- Seismic Evaluation and Retrofitting Techniques of existing structures***	***- Tsunami Database for Tsunami Early Warning System***	
		- Crustal Structure Analyses Using Receiver Function	***- Post-earthquake Damage Inspection Method***	***- Rapid Determination of Earthquake Parameters for Tsunami Early Warning System***	
		- Study on Earthquake Generation Process	***- System Identification and Health Monitoring***	***- Real Time Usage of Tsunami Data for Tsunami Early Warning System***	
		- Analysis of Strong Motion Generation Using Empirical Green's Function Technique	***- Effects of Surface geology and Soil Structure Interaction***	***- Others***	
		- Site Effect Studies using Strong Ground Motion Records	***- Geotechnical Engineering and Foundation Structures***		
		- Geophysical Prospecting for Sedimentary Strata Using Microtremors and Surface Waves	***- Strategies for Earthquake Disaster Mitigation and Recovery***		
		- Others	***- Others***		
(5)(for Master Program)	Disaster Management Policy	Disaster Management Policies A: from Regional and Infrastructure Aspect			Practice, Seminar and Presentation
		Disaster Management Policies B: from Urban and Community Aspect			

** 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.*