

### CLO x PLO Mapping

Semester	Moduls	Course Learning Outcomes	Credit	C/E	PLO.1	PLO.2	PLO.3	PLO.4	PLO.5	PLO.6	PLO.7	PLO.8	PLO.9	PLO.10
					S-1	C-1	S-2	K-1	S-3	S-4	S-5	K-2	S-6	C-2
-	Planning Excursion	Able to compare different planning factors and cultures regarding observed-cities/regions/countries	2	E				v						
		Able to formulate lessons learned and recommendation regarding observed-cities/regions/countries									v			
-	Creative Thinking for Planning	Able to explain various creative thinking approaches	2	E					v					
		Able to formulate creative solution					v							
		Able to perform creative solutions to solve urban and regional problems							v					
-	Transit Oriented Development	Able to explain concepts, principles, and influencing factors of TOD	2	E				v						
		Able to assess TOD practices in different contexts										v		
		Able to formulate recommendations of TOD plans							v					
-	Housing Site Planning	Able to explain principles, concepts, and standards of housing site planning	2	E				v						
		Able to evaluate housing site plan											v	
		Able to formulate housing site planning			v									
-	Sustainable Tourism Planning	Able to explain theories, concepts and processes of sustainable tourism planning	2	E				v						
		Able to assess sustainable tourism planning practices in different contexts											v	
		Able to formulate strategies to develop sustainable tourism areas.								v				
-	Disaster, Geology, and Spatial Planning	Able to explain geological phenomena and processes.	2	E				v						
		Able to identify various geological hazards and disasters in urban and regional planning context.											v	
		Able to formulate geological-based recommendations for urban and regional planning								v				
-	Rural Planning	Able to explain the principles and concepts of integrated rural development planning	2	E				v						
		Able to discuss integrated rural development issues/problems							v					
		Able to formulate recommendations for integrated rural development					v							
-	Public Transport Planning	Able to explain theories, strategies and issues in public transport planning	2	E				v						
		Able to demonstrate techniques and methods in public transport planning							v					
		Able to formulate recommendations for public transport system								v				

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					S-1	C-1	S-2	K-1	S-3	S-4	S-5	K-2	S-6	C-2
-	Urban Regeneration	Able to explain the concepts, principles, and factors in urban regeneration	2	E				v						
		Able to assess urban regeneration themes and projects									v			
		Able to formulate recommendations for urban regeneration strategies							v					
-	Space and Behaviour	Able to explain basic concepts and theories of space and behaviour	2	E				v						
		able to assess the relationship between human behaviour and space										v		
		Able to design public space using the principles of inter-relationship between space and human behaviour							v					
-	Urban Housing Policy	Able to explain various urban housing policies and management	2	E				v						
		Able to discuss various problems in urban housing										v		
		Able to discuss urban housing policy and management in specific context.							v					
-	Housing Development Financing	Able to explain the components, principles and application of housing development financing.	2	E				v						
		Able to identify potentials and problems in housing development financing											v	
		Able to propose realistic and creative financing schemes in particular for low income housing development								v				
-	Informal Sector Management	Able to explain history and development of informal sector	2	E				v						
		Able to discuss the relationship between development paradigms and informal sector.											v	
		Able to formulate recommendations for informal sector management.								v				
-	Community Participation in Disaster Mitigation	Able to explain theories and principles of community-based disaster mitigation	2	E				v						
		Able to discuss best-practices of community-based disaster mitigation				v								
		Able to assess existing community based disaster mitigation strategies.								v				
-	Project Management	Able to explain principles, processes, and methods of project management cycle	2	E				v						
		Able to apply critical path analysis for project scheduling										v		
		Able to develop project implementation strategies for urban and regional development			v									
-	System Approach in Urban Planning	Able to explain concepts and principles of system-approach for Urban and Regional Planning studies	2	E				v						

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					S-1	C-1	S-2	K-1	S-3	S-4	S-5	K-2	S-6	C-2
		Able to explain the dynamic of system- approach scheme in planning							v					
		Able to formulate descriptive models on specific cases				v								
-	International Joint Studio	Able to perform cross-culture practice in planning process	2	E										v
		Able to comply with local and international context in planning process								v				
		Able to perform tim work and communication with international students									v			
-	Landscape Planning and Design	Able to explain principles, procedures, and methods in landscape planning and design	2	E				v						
		Able to apply indicators for assessing urban landscape quality.				v								
		Able to formulate landscape planning and design recommendation.								v				
-	Geomorphology and Land Use	Able to explain geomorphological phenomena affecting land use planning	2	E				v						
		Able to relate geomorphological phenomena with land use potentials and problems.											v	
		Able to formulate geomorphological concept for regional planning											v	
-	Spatial Planning Based on Disaster Mitigation	Able to explain the concept and principles of disaster mitigation	2	E				v						
		Able to asses disaster risk in the context of spatial planning							v					
		Able to formulate spatial plan based on disaster mitigation								v				
-	Urban Kampung Policy and Empowerment	Able to explain the concepts, issues and problems of urban informal settlement	2	E				v						
		Able to discuss policies, programs and best practices in urban informal settlement/kampung											v	
		Able to formulate recommendations for better and sustainable urban kampung								v				
-	Infrastructure Financing	Able to explain the principles and concepts of infrastructure financing	2	E				v						
		Able to assess infrastructure financing scheme											v	
		Able to formulate financing recommendations for urban and regional infrastructure								v				
-	Ecosystem and Biodiversity Conservation	Able to explain various ecosystems and biodiversity conservation in Indonesia.	2	E				v						
		Able to discuss the roles of ecosystems and biodiversity in urban and regional planning context.											v	
		Able to formulate ecosystem and biodivesity conservation strategies in urban and regional planning context.								v				

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					S-1	C-1	S-2	K-1	S-3	S-4	S-5	K-2	S-6	C-2
-	Real Estate Planning	Able to explain characteristics, components, and principles of real estate planning and development	2	E				v						
		Able to assess potentials and problems of real estate development										v		
		Able to develop real estate business proposal							v					
-	Resilient City	Able to explain the concepts and principles of resilience in urban and regional context	2	E				v						
		Able to assess the resilience values of urban and regional context.										v		
		Able to develop strategies to improve resilience for urban and regional development.							v					
-	Infrastructure Development through Public-Private Partnership	Able to explain principles and concepts of infrastructure development through public-private partnership schemes.	2	E				v						
		Able to discuss feasible public-private partnership schemes										v		
		Able to formulate outline bussiness case for infrastructure development through public-private partnership							v					
-	Environmental Valuation	Able to apply and match various environmental valuation methods for specific context	2	E				v						
		Able to integrate environmental valuation study into decision making process				v								
		Able to create simple environmental valuation study using real cases										v		
-	Smart Cities	Able to explain concepts and principles of smart city	2	E				v						
		Able to relate smart cities principles in different scopes and contexts										v		
		Able to formulate innovative ideas for smart city development							v					
-	Urban and Regional Infrastructure Management	Able to explain principles and concept of infrastructure management.	2	E				v						
		Able to discuss infrastructure management in the context of Indonesian development.										v		
		Able to formulate strategies to address infrastructure development problems in Indonesia							v					
-	Industrial Estate Planning	Able to explain the principles, concepts and methods of industrial estates planning.	2	E				v						
		Able to assess potentials and problems of industrial estate.										v		
		Able to formulate strategies for industrial estate development.							v					
-	Industrial Site Planning	Able to explain principles and standards of industrial site planning.	2	E				v						

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					S-1	C-1	S-2	K-1	S-3	S-4	S-5	K-2	S-6	C-2
		Able to evaluate industrial site planning											v	
		Able to design industrial site plan								v				
-	Tourism Area Design	Able to explain theories, concepts and processes in tourism area design	2	E				v						
		Able to critique existing tourism area design											v	
		Able to formulate design ideas for tourism area.								v				
-	Urban Preservation and Conservation	Able to explain theories and concept in urban preservation and conservation	2	E				v						
		Able to integrate ideas of preservation & conservation and economic development											v	
		Able to formulate spatial plan based on preservation and conservation policies								v				
-	Coastal and Small Islands Planning	Able to explain characteristics of coastal areas & small islands and principles, concepts & methods to develop the areas.	2	E				v						
		Able to discuss various conflicts in coastal areas and small islands.											v	
		Able to formulate development strategies to solve problems in coastal areas and small islands.								v				
-	Logistics and Transportation Planning	Able to explain theories, concepts, and principles of logistics and transportation planning	2	E				v						
		Able to apply techniques and methods in logistics and transportation planning to identify issues and problems							v					
		Able to formulate policy recommendations for logistics and transportation planning								v				
-	Real Estate Management	Able to explain financing and management principles of real estate	2	E				v						
		Able to examine concepts and practices of real estate management											v	
		Able to formulate management system for real estate development.								v				
-	Small and Medium Enterprise Area Management	Able to explain small and medium industrial sites planning	2	E				v						
		Able to assess recommendation and design for small and medium industrial sites											v	
-	Environmental Management	Able to explain principles, approaches, and tools for urban environmental management	2	E				v						
		Able to use environmental indicators for assessing quality of urban environment					v							
		Able to formulate strategies to improve the quality of urban environment.								v				
-	Disaster Recovery Planning	Able to explain the concept and principles of disaster recovery	2	E				v						

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					S-1	C-1	S-2	K-1	S-3	S-4	S-5	K-2	S-6	C-2
		Able to asses disaster risk in the context of spatial planning for disaster recovery							v					
		Able to formulate analysis and recommendation based on disaster recovery											v	
-	Data Visualisation Techniques for Planning	Able to discuss various planning data visualization techniques and media for URP	2	E				v						
		Able to search for data / information as needed and media for planning data visualization techniques												v
		Able to use planning data visualization techniques strategically and effectively according to needs and related media					v							