HANYANG UNIVERSITY

Hanyang International Winter School

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Course Information						
	Class No.	18522	**Course Code**	ISS1076	**Credits**	3
	Course Name	Digital Studio				
	Lecture Schedule	Mon-Fri / 13:00~17:30				
	Course Description	This course will introduce students to the basics of digital architecture and how to use Grasshopper for Rhino3D, a powerful algorithmic modeling software, to create complex forms and patterns for building facades and small objects. The course will also cover how to create photorealistic renderings using Twinmotion and how to create an online VR tour.				
	Course Objective	Objective 1: Understand the principles of parametric design and how to use Grasshopper to create novel designs for façade pattern or small objects. Objective 2: Learn how to use Twinmotion for real-time rendering and create photorealistic visualizations. Objective 3: Learn how to create immersive VR tours and experience the design in a virtual environment.				
	Prerequisite	Prior experience in 3d modelling using Rhino3D is advantageous.				
	Materials/Textbooks	While a computer will be provided, it is advisable to bring your personal laptop.				

Evaluation				
Attendance	10%	**Quiz**		%
Assignment	90%	**Mid-term Exam**		%
Presentation	%	**Final Exam**		%
Group Project	%	**Participation**		%
Etc.	**Evaluation Item**		**Ratio**	
				%
				%

Daily Lecture Plan		
	Day 1	Introduction to Parametric Design, Rhino3D/Grasshopper
	Day 2	Grasshopper: Basic components and data types
	Day 3	Grasshopper: Creating and manipulating 2D and 3D geometry
	Day 4	Grasshopper: Advanced geometries and data management
	Day 5	Grasshopper: Using optimization algorithms and exercises
	Day 6	Twinmotion: Placing objects and Rendering Images

	Day 7	Twinmotion: Creating videos
	Day 8	Twinmotion: Creating Panorama Images
	Day 9	Creating VR Tour 01
	Day 10	Creating VR Tour 02