

Special Topics in Smart Convergence : Smart Working Space

Spring 2022, KAIST

This course is a project-based course for planning and designing new collaborative working environment for innovative and creative industries. By comprehending innovative and creative working environment where they will work, students are expected to plan and design a new collaborative working environment and visualize it with AR/VR methods. Students are asked to participate in various class activities including group discussion, group projects, presentation, etc.

Course No.	CoE491 (Section B)
Instructors	Youngchul Kim (Dept. of Civil and Environmental Engineering) Hyung Jung Cho (School of Humanities and Social Sciences) Seung Hyun Cha (Graduate School of Culture Technology)
Class Time	1-4pm Wed
Classroom	N1-113
L:L:C	3:0:3
Grading	S,U
Course Level	Common (Bachelor / Master / Doctorate allowed)
Course Type	Major Elective (Recognized as major credit for "individually designed major" students. Many departments will recognize as "major elective": Contact course staff for details.)
Course Website	https://star.kaist.ac.kr/
Evaluation Criteria	Team Project: 50% Assignments: 30% Participation: 20% No exams

Tentative Schedule

Week	Topic In-class Activity and Discussion	Tutorial Group Project
1	Introduction to the course	
2	Where and how have people worked?	- Grouping exercise - Group discussion
3	How will people work?	- Group discussion - Case studies
4	How do we plan and design built environments?	- Group discussion - Case studies
5	How do we plan and design working environments?	- Group discussion - Case studies
6	How do we use VR tools for making built environments?	- Group discussion - Tutorial
7	How do we evaluate human factors in virtual working environments?	- Group discussion - Tutorial
8	Midterm presentation	- Group presentation
9	What is your concept for making an innovative working environment?	- Group discussion & activity (concept development)
10	How do you implement your concept for making your working environment?	- Group discussion & project (concept development)
11	How do you arrange spatial requirements?	- Group discussion & project (conceptual design)
12	What are your alternatives for your working environment?	- Group discussion & project (spatial analysis)
13	Which alternatives are the most suitable for your working environment?	- Group discussion & project (conceptual design)
14	How do you make your working environment in VR?	- Group project (presentation preparation)
15	How do you evaluate your virtual working environment?	- Group project (presentation preparation)
16	Final presentation	- Group presentation