

ACE-F1			
授業科目名 Course Title	Introduction to Architectural planning, design and Environmental Engineering	単位数 Credit	2
担当教員 Instructor	AKASHI Yukio, HARADA Yoko, KISO Kumiko, NISHIMOTO Masato, MOMOI Yoshihisa, YAMADA Takeharu	開講学期 Semester	Spring
キーワード Keywords	Architectural planning, Architectural design, Environmental engineering		

授業概要 Course summary
<p>This course provides an introduction to Architectural planning, design and Environmental Engineering. The introduction includes (1) human vision to understand lighting design for building interior and exterior (three classes), (2) human environment system and human behavioral design (two classes), (3) residential planning, living environment, and active use of vacant land (three classes), (4) how to design a house and child care facilities (two classes), (5) thermal comfort, natural ventilation, and energy in building environment (three classes), and (6) Japanese traditional architecture design including wooden pagodas (two classes).</p>
到達目標 Course goal
<p>After taking this course as an introduction to architecture, students will obtain basic knowledge on Architectural planning, design and Environmental Engineering.</p>
授業内容 Course description
<p>01: Class guidance, Human vision, Yukio Akashi 02: Human Visual System, Yukio Akashi 03: Color Perceptions, Yukio Akashi 04: Design and Research of Human-Environment System, Kumiko Kiso 05: Human Behavioral Design and Research Considering Human-Environment System, Kumiko Kiso 06: Transition of residential planning in Japan, Yoko Harada 07: Actual condition and task of city and living environment in population decrease era, Yoko Harada 08: Maturing of city by active use of vacant land, Yoko Harada 09: Same day design of a house, Masato Nishimoto 10: Architectural planning of child care facility, Masato Nishimoto 11: Thermal Comfort, Yoshihisa Momoi 12: Natural Ventilation, Yoshihisa Momoi 13: Energy and Building Environment, Yoshihisa Momoi 14: Design of the Japanese Traditional Architecture, YAMADA Takeharu 15: Wooden Pagoda, YAMADA Takeharu</p>
準備学習（予習・復習）等 Preparation / Review
<p>At least one-hour reviewing is necessary for each of the classes.</p>
授業形式 Class style
<p>Lectures will be mainly provided. However, students will occasionally experience quizzes and design exercises.</p>
成績評価の方法・基準 Method of evaluation
<p>Quizzes, design exercises, and reports: 100% If the number of absences counts 5 or more, the credit will not be given.</p>

教科書・参考書等 Textbook and material
Handouts including power point presentations will be provided to students at each of the classes.
受講要件・予備知識 Prerequisite
None
その他の注意事項 Note
Bring a USB flash memory and a computer when needed.