

Architectural Design Studio I

Course Description:

1. apply basic skill in 3D formation
2. basic comprehension of material and application of material in 3D design
3. basic comprehension of structural tension and compression force in design
4. confront the problems of spatial forming and spatiality

Course Requirement:

Architectural Design Studio II

Course Description:

1. 3D sculpture forming
2. 3D analytical drawing and forming
3. abstract / collage images and 3D forming
4. Tectonic and structural system
5. Material as a basic of form processing

Course Requirement:

1. unit study
2. Units 3D Composition

Architectural Design Studio III

Course Description:

1. apply basic skill in 3D formation
2. basic comprehension of material and application of material in 3D design
3. basic comprehension of structural tension and compression force in design
4. confront the problems of spatial forming and spatiality

Course Requirement:

1. Summer work
2. line composition
3. plan composition
4. volume composition
5. composite composition

Architectural Design Studio IV

Course Description:

- 1.basic architectural design with the skills of scale, drawings and model-making
- 2.manipulation of conceptual design process
- 3.cultivation of design sensitivity

Course Requirement:

1. First Assignment
- 2.Site study
- 3.design development
- 4.pin-up & critique
- 5.design development

Architectural Design Studio V

Course Description:

Taiwan is a beautiful island characterized by its small area, large population, mountainous terrains with relatively little flat areas, and lacking in natural resources while abundant in natural disasters (e.g. earthquakes, typhoons). Taiwan has also experienced tremendous economic development in the past 50 years. At present, approximately 77% of its 23 million population live in urbanized areas, which take up only 12% of the island's area. Of these, 52% live in the three north, central, and south major metropolitan areas, and the remaining 25% in other large and small cities. In the past, development was aimed at achieving maximum economic benefit, and issues in sustainable development had been neglected. As a result, Taiwan's environmental quality has degraded. This course will introduce the practice of green building in Taiwan and other countries by sustainable view point.

Course Requirement:

1. Conceptual Design International Competition (case study)
2. Present
3. office building (Program)
4. an office building design
5. 1018 Lecture by A. Kitagawara in Taipei Municipal Museum; 1021 an office building design

Architectural Design Studio VI

Course Description:

Taiwan is a beautiful island characterized by its small area, large population, mountainous terrains with relatively little flat areas, and lacking in natural resources while abundant in natural disasters (e.g. earthquakes, typhoons). Taiwan has also experienced tremendous economic development in the past 50 years. At present, approximately 77% of its 23 million population live in urbanized areas, which take up only 12% of the island's area. Of these, 52% live in the three north, central, and south major metropolitan areas, and the remaining 25% in other large and small cities. In the past, development was aimed at achieving maximum economic benefit, and issues in sustainable development had been neglected. As a result, Taiwan's environmental quality has degraded. This course will introduce the practice of green building in Taiwan and other countries by sustainable view point.

Course Requirement:

1. Conceptual Design International Competition (case study)
2. Present
3. office building (Program)
4. an office building design
5. 1018 Lecture by A. Kitagawara in Taipei Municipal Museum; 1021 an office building design

Architectural Design Studio VII

Course Description:

1. Possessing resolution of design problem
2. Possessing observation of build site
3. possessing integration of architecture space
4. Capable of design presentation

Course Requirement:

1. Conceptual Design International Competition (case study)
2. Present
3. office building (Program)
4. an office building design
5. 1018 Lecture by A. Kitagawara in Taipei Municipal Museum; 1021 an office building design

Architectural Design Studio VIII

Course Description:

1. Discovery and observation of design problem and design processes
2. To have in hand the relative documents of site
3. How to operate the form of space

Course Requirement:

1. design concept finalized process
2. design process
3. judging process
4. design process and modification
5. modification

Computer Graphics

Course Description:

1. Basic concept of 3 dimensional drawing
2. Application of changing between WCS and UCS
3. Solid modeling
4. Boolean computation
5. Editing solid models
6. Lights setting
7. Materials attaching
8. Rendering and scene setting
9. Integration of architecture and urban simulation

Course Requirement:

1. Objectives, schedule
2. Wire frame, surface, and solid, Changing coordinate system, WCS and UCS
3. Box, cylinder, extrude, revolve, etc.
4. Union, intersect, abstract
5. 3D array, rotate, etc.

3D Composition

Course Description:

1. concrete casting
2. fabric weaving
3. detail design and detail construction
4. free-form object and its construction

Course Requirement:

1. metal drilling/cutting machine use
2. metal object making
3. doorknob design and casting the object
4. casting a concrete block
5. multiple material

Architecture Structural System

Course Description:

1. Introduce the structure system of building.
2. Structural form .
3. Plan and space structure system .
4. Schematic building forms as tall structural systems.
5. Design plan and earthquake resistances.

Course Requirement:

- 1.Course outline
- 2.Introduce the structure system of building
- 3.Structural form.
- 4.Plan structure system
- 5.Space structure system
- 6.Schematic building forms as tall structural systems

Virtual Design for Architecture Media

Course Description:

Drawing Environment and Interface
Basic Drawing Commands
Basic Edit Commands
Views
Advanced Drawing Commands
Advanced Edit Commands
Applying Materials
Geometry Scaling
Precision Drawing
Layer Management
Pages and Tour Guide
Drawing Import and Export

Course Requirement:

- 1.Course objectives and schedule
- 2.Floor plans settings
- 3.Establish floor plans underground
- 4.Establish Floor plan of ground level
- 5.Establish Floor plans above ground level
- 6.establish Curtain Wall
- 7.establish Stairs, handrail and roof
- 8.establish Elements of interior and exterior
- 9.establish site plan
- 10.2 Dimension views settings