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SCHOOL OF ARCHITECTURE

The School of Architecture at Kookmin University offers the first 5-year specialized design course in Korea, and offers an optimum curriculum to educate future architects. We are proud of our highly motivated students, outstanding faculty, state-of-the-art facility, quality curriculum and dynamic and friendly atmosphere.

ARCHITECTURE MAJOR

Architecture consists both science and art. Good architecture is the one that is firmly and functionally built, but at the same time must give deep aesthetic experience to those who use it. With Professor Kim, Soo-Geun's educational ideals as our tradition, the school has pursued creative and experimental architecture with an eye for satisfying both sides of architecture as a culture, that is, an art and a science.

Therefore, the education of architecture has dual objectives: first, the learning of technology to make healthy architecture and second, balanced experience of aesthetic appreciation, to provide students with intellectual power and artistic sensibility. In addition, the significance of architecture as social art is emphasized.

Courses

- **Seminar in Special Topics (2)**

This course helps students to have an intellectual curiosity and make active relationship among themselves. It can also help them to study hard and pursue higher education. According to each professor, this course is included with practices, on-the-spot study, workshop, research, seminar and so on.

- **Introduction to Architecture (2)**

This course focuses on various principles and concepts of architecture for a fundamental understanding of it. The domain and the definition of architecture will be comprehended. The basic knowledge of architecture - the process of planning, the principal understanding of structure, the meaning of architecture and its social role - will also be learned.

- **Architectural Design 01 (5)**

Introduction to an architectural design studio is concerned with presentation techniques and understanding of various ways of ordering architectural forms. Several projects are processed with geometrical principal that can be training for organizing of formative elements. The strategy and process of design are followed with each studio.

- **Architectural Design 02 (5)**

The second introduction to an architectural design studio is concerned with object design and minimum space design. The main purpose of this course is to know various factors having an effect of the architectural design process, to train for the method and the process with spatial expression with functional consideration.

- **Media & Representation I (2)**

This course offers students the opportunity to exercise two and three dimensional presentation techniques including sketch, painting and three-dimensional objects. It can be recognized that a drawing has various possibilities and the high ability to use in developing presentation skill. Exercise on basic sculpture and photography are also programmed.

- **Media & Representation II (2)**

This course studies a character of media and its presentation skill generally and integrates them with architectural design course. It also deals with manual/mechanical reproduction, digital modeling, simulation, and the various skills of architectural communication.

- **History of Korean Architecture (2)**

This course covers the Korean architecture concerned with style, technology, and social continuity. The purpose of this course is to examine the essence of Korean architectural culture especially the course helps students to understand the structural and aesthetical character of wooden structure, and actual training and exploring historic scenes' as well.

- **CAAD I (2)**

This course introduces a selection of current hardware and software tools, and also provides extensive opportunities to develop practical skills through hands-on lab sessions and regular practical exercises. Students can learn skills concerning 2D drawing and 3D modeling. The topics of these exercises are drawn from Architectural Design I & II.

- **Architectural Design 03 (5)**

It is introduced as an architectural presentation skill and structural method of building in this course. This course studies the relationship between function and space, the connection between spaces, and designing a small dwelling unit and art gallery in which stressed artistic presentation is emphasized.

- **Introduction to Building Structure (2)**

This course studies basic concept of building structures concerning a load which act on building and its mechanical movement, and also covers topics such as force of vector, truss, section, shear moment diagram, stress, strain and application of material. Ultimately, students understand a mutual relation between structural mechanics and design.

- **History of World Architecture I (2)**

This course provides understanding of the development processes of world architecture including western and non-western architecture from a holistic view point; (The Beginning, Middle East, Egypt, Greece, Rome, Basilican church, Byzantine, Maya-Aztech, China, Japan, southeast Asia, delivery, Islam, South America construction, etc.) Lectures on the architecture history from the prehistoric era to the first millennium.

- **CAAD II (2)**

As a process that is connected to CAAD I, Students learn various techniques (2D/3D) that compose architectural conception by digital media. It combines and synthesizes various information of architectural process in digital media. In addition to, studies method to embody on design decision-making and ideas communication-systeme.

- **Architectural Design 04 (5)**

This course masters expression and practices construction method of building. Students learn connection between architecture and culture, and expression function and construction of space. There are opportunities to design multi-family housing and a religious building. Studies of the methods of site analysis, construction of architectural concepts, and space design, are covered in this course.

- **Building Material & Construction Methods I (2)**

This course intends to understand the characteristics of various architectural materials, and apply them to the design of a building. Focus on the hardness, color, texture, and detail considerations of each type of material, and understanding various methods of construction.

- **Environmental Control System I / Lighting, Acoustics & Information (2)**

This course studies the basic concepts of lighting, acoustics, and communication system. Students understand artificial environment and learn optimization of system performance and modeling relation. This course covers the construct of ecological utilization and most suitable human skill to building system.

- **History of World Architecture II (2)**

Successive courses on the history of architecture. Lectures on the architectural history of the second millennium. Students learn about main building since Middle Ages in all over the world. This process understands change (architecture theory, function, structure, esthetics) of those days from viewpoint of philosophy, religion and environment.

- **Architectural Design 05 (5)**

This course focus on the logical process of design, and design methodology based on the development of emotion, force and other elements.

- **Building Materials & Construction Methods II (2)**

More advanced level than Architectural Material & Methods of Construction I. This course studies interaction about building synthetic systems. It helps to

improve problem solving ability considering in the process of design with various technical considerations.

- **Environmental Control System II / HVAC (2)**

This course lectures on various topics of environmental control systems including water supply, sanitary systems and efficient methods to make healthy environment of architecture. Studies of the basic concepts of heating, ventilation and air-conditioning are presented.

- **Urban Planning I (2)**

This course studies theoretical issues of city planning such as land use, transportation, urban spatial structure, history of city planning, redevelopment, theory of the neighborhood unit and so on. The theories of city planning are learned through studies on actual city planning projects and examples.

- **History of Modern Architecture (2)**

This course studies architecture from the era of Rationalism to the Modern Movement by the various concepts, styles of expression and changes of architectural type and construction. Centering around works and architect, it helps the students to learn the arts and crafts movement, the art nouveau, the avant-garde, etc. And, studies of history of Korean modern architecture after the nineteenth century are also reviewed.

- **Architectural Design 06 (5)**

This course studies site planning and the design of cultural facilities in four different design studios. It will include architectural programming, formative design. Detailed process is, however, varies by respective studio.

- **Structural System I / Reinforced Concrete Structure (2)**

This course studies basic structural principles and intends to give students an in-depth experience in the analysis of architectural structures focused on reinforced concrete. It also includes united system of reinforced concrete structure, pre-stressed-PC and special concrete structural system. The course deals with modeling, studies for instances and engaging structural system project.

- **Environmental Control System III / Green Design (2)**

This course studies the concepts of environment friendly architecture, i. e. sustainable architecture, and explores various possibilities for alternative energy source such as the solar system. It makes to conduct regional resources, human possibility, and technological resources. It studies architectural methods of active and passive solar system as well.

- **Introduction to Urbanism (2)**

This course examines various approaches to the development of land use patterns and urban form, and analyzes aesthetic, technical, economic, social, and ideological factors that have affected the design of cities and quality of life within them.

- **Housing Theory (2)**

This course equips students with qualitative methods as well as techniques needed to analyze major housing issues. It studies the circulation of the housing and moving of the housing. It comprehends theory of land price, currency of construction business related to housing.

- **Landscape design (2)**

This course introduces landscape design and studies basic principles of land design. It explores progresses and applications of the design concept. The course also studies topological knowledge, space, formation of external space and topography. It comprehends harmony with surroundings and analysis of housing complex, as well.

- **Seminar on Contemporary Architecture (2)**

This course studies architecture from the mid-1960s up to current themes. Various architectural theories including postmodernism and deconstruction architecture are understood in relation to other arts, literature, philosophy and other cultural factors.

- **Urban Planning II (2)**

More advanced level than City Planning I. The understanding throughout a

learning theory in the City Planning I course is applied to the relationship between city and nation, city and other cities, city and suburb, and then this course needs to do is to define the problem clearly. This course, also tries to find a physical solution.

- **Architectural Design 07 (5)**

As a project which has a theme in each studio, it is built to creative concept with a tendency of the contemporary architecture. This course provides the literary interpretation of creative concepts, and the social interpretation of architecture, cyber space and other digital methodology with the understanding of current architectural movements.

- **Structural System II / Steel Structure (2)**

This course will provide basic structural principles and intends to give students increased experience in the analysis of architectural structures focused on steel and wood structural system. To learn more about structural system this course includes actual model making through computer research with examples and structural system project.

- **Construction Technology I (2)**

The construction technology is understood as a basic of contemporary construction techniques in interacting with design. This course provides basic principles of construction technology, cost analysis, construction management, and the application of knowledge to field experience.

- **Modern Society & Architecture (2)**

This course provides the interaction between architecture and the physical and social environment based on the interdisciplinary social sciences including sociology, psychology, anthropology, etc. It masters that the way of architectural application for the concepts of a user's need, decision making, social organization and architecture, scientific movement and architectural theory.

- **Architectural Design 08 (5)**

This course re-interprets urban fabric and spaces, and studies how to develop

new concepts for the application of the reinterpretation. After it makes analysis on city-search with object for special area of city, then arrange a condition of colligation and individual, and it complete a physical design of a earth. A strategy of design and program need to the followed in detail in each studio.

- **Structural System III / Advanced Structure (2)**

This course provides special structural system such as a super structure, membrane structure, pneumatic structure, and kinetic structure etc. After basic courses on structure, special structures with examples are explored.

- **Construction Technology II (2)**

More advanced level than construction Technology I.. This study requires full understanding of construction technology and learns how to make a progress schedule. This course also practices the basic of integration and itemized unit cost of progress schedule. It is expected that students process the ability of appropriate application to the construction technology.

- **Building Codes (2)**

This course studies architectural codes as a basis for architectural practice and emphasizes the intent and application methods of the codes. Limits and possibilities that derives from building codes are also discussed.

- **Site Planning (2)**

This course studies various theories and methods of site planning that can be acquired. The knowledge of urban and natural context are understood basically. This course also analyses the historical and cultural effects and the condition of site environment, which influence building design. Students also study the architectural codes and influence of natural environment.

- **Advanced CAAD I (2)**

This course provides an opportunity to undertake advanced projects in two and three dimensional geometric modeling, associated computer-aided design, visualization applications in architecture, urban design, and computer graphics production.

- **Theory of Architectural Design (2)**

This is an intensive reading course in architectural theory and related philosophical and critical texts. Main subjects of this course are landscape and urban, human and society, technology and science, space and recognition, lighting and colors. It experts mainly criticism of various intentions of the contemporary architecture.

- **Architecture Remodeling & Renewal (2)**

Students learn about the renovation and rehabilitation of buildings. This course studies about relationship between developers and role of architects, customers, contractors, engineers, and suppliers of mechanical parts. The analysis of site condition and environment are studied to apply actual projects.

- **Advanced CAAD II (2)**

More advanced level than Advanced CAAD I. It is a independent project, and it is expected to lead students to make program of cyberspace or other digital methodology in architecture. This course also masters computer applications, which enables to analyze architectural environment, determination of planning and optimization of planning.

- **Architecture in Seoul (2)**

This course explores the architecture of Seoul. It covers a range of topics from individual architectural works to new developments and renewal of the city. In addition, this course studies architectural forms, history of Seoul and site analysis. Students are expected to explore various faces of the city of Seoul.

- **Urban Redevelopment (2)**

This course studies the meaning and methods of neighborhood revitalization. Collecting the information of aging city and making plans how to develop the old area are the subjects discussed in the course. Students also study why cities are changed, rise, and fallen. New towns neighboring to Seoul are also dealt with.

- **Architectural Design 09 (5)**

As a realistic assignment, the whole process of programming, design, and the construction document are completed by the students. Knowledge of architectural technologies are integrated, and expressed professionally.

- **Architectural Practice / Management & Documentation (2)**

This course studies architects' ethics and responsibility, the role of architects in the construction industry, and understanding the organization and management of an architectural office. It teaches document production and presentation techniques. It also contains financial management, and legal issues such as making a formal contract.

- **Architectural Design 10 (5)**

It is a final course of architectural design. Students design a final work for the graduation exhibition. Topics are freely chosen, and the work is synthetically evaluated in all process of design. It is also evaluated that analysis of site conditions, programing, main concept, value of society, abilities of the architectural expression.

- **Building system (2)**

Students understand the basics of high technology, and other various technological issues. Elements of Building system include structures, facilities, transportation, mechanical system, and constructional methods are discussed. In addition, students study the building automation, artificial intelligence of architectural technologies.

- **Architecture Internship (2)**

Students who are 4th or 5th year, experience at architectural offices during the summer vacation, to understand the overall architectural practice under the staff guidance in 4~6 weeks. The architecture Internship program is to make closer academic-industrial cooperation. It helps students to make more appropriate decision in determining their course.

- **Seminar on Contemporary Architects (2)**

Special seminars are offered on contemporary architects. This course provides the architectural achievement of the contemporary architects and their design processes, concepts and influences through their projects. It also gives an opportunity to know what the architect's main subjects are and other fields of activities are.

- **Architecture and Culture (2)**

Architecture is analyzed from the viewpoint of anthropology in this course. The roles and valuation of architecture as the cultural phenomenon are especially studied with respect to cultural anthropology. Therefore, diversities of architectural culture are understood as reflection of the society.

- **Architectural Criticism (2)**

This is an intensive course in architectural criticism. Many buildings are chosen for case study. The fact of contemporary architecture is criticized through many methods of criticism and verified. The analysis on social ethics, aesthetic evaluations and pertinency as system, cultural expression are introduced. Special seminars are also offered.

- **City & Transportation (2)**

This course deals with the relationship between the city and transportation, and understands the purpose of transportation and examines a range of strategies for transportation, since this relationship influence various human activity patterns, city and architectures. The traffic system in the city or between cities and supply and demand of transportation will be considered.

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