Implementation Rules for the Curriculum of the Graduate Program

Department of Housing and Interior Design

March 1, 2026

KYUNG HEE UNIVERSITY

Implementation Rules for the Curriculum of the Graduate Program at the Department of Housing and Interior Design

Effective Date: March 1, 2026

Article 1 (Purpose)

① These implementation rules aim to define the specific requirements for obtaining degrees in the aforementioned department at Graduate School.

② Any individual seeking a degree must satisfy all requirements set forth by the University Statutes, the Implementation Rules of the University Statutes, the Graduate School Internal Regulations, and these specific Implementation Rules.

Article 2 (Educational Objectives)

① The educational objectives of the department are as follows:

1. Cultivating housing professionals for the diversified society of the 21st century.
2. Cultivating talent equipped with expertise, creativity, and leadership in the field of housing and interior design.
3. Cultivating talent with multidisciplinary academic knowledge.

Article 3 (Career and Employment Fields)

① The career and employment fields for the department are as follows:

1. Housing construction industries, interior and remodeling industries, eco-friendly and green building certification consulting, public and private rental management, asset management, Facility Management (FM), housing welfare facility operation, etc.
2. General industries, furniture design and sales industries, housing-related research institutes, public enterprises related to housing and urban affairs, central and local governments, media and PR (newspapers, magazines, TV, etc.), researchers at institutes, and universities.
3. Experts in housing for the elderly, Smart Housing designers, Smart Housing coordinators, Smart Housing technology developers, and Smart Housing service experts.

Article 4 (Basic Structure of the Curriculum)

① Students intending to graduate (or complete the coursework) must earn the required credits for Required major courses and Elective courses as specified in [Table 1] Basic Curriculum Structure and <Appended Tables 1 & 2> Curriculum Schedules.

② Courses offered by other departments in the graduate school that are not included in the curriculum schedule will be recognized as Elective Major credits within the limits of "Credits Recognized from Other Departments" shown in [Table 1].
Note: Courses offered by the same major in other departments (e.g., Dept. of Electronic Engineering, Dept. of Medicine) may be recognized as Compulsory or Elective Major credits for the Age-Tech Service Convergence Major.

③ Students who graduate from the master's program in this department and subsequently enroll in the doctoral program in the same major may substitute courses approved by the Department Chair for required major courses completed in the master's program, as these cannot be repeated in the doctoral program.

④ Students who transfer from the Housing and Interior Design Major to the Age-Tech Service Convergence Major will have their credit recognition determined through a department committee meeting.

⑤ Prerequisite credits (additional credits required for students from different academic backgrounds) are not included in the total credits required for graduation.

[Table 1] Basic Curriculum Structure

Department (Major)	Program	Required course credits	Elective course credits	Common course credits	Total Credits	Recognized Credits from Other Dept.
Housing & Interior Design	Master's	6	18		24	12
	Doctoral	6	30		36	12
	Integrated	6	54		60	12
Age-Tech Service Convergence Major	Master's	6	18		24	12
	Doctoral	9	27		36	12
	Integrated	9	51		60	12

Article 5 (Curriculum Schedules)

① The curriculum for the Housing and Interior Design Major is as per [Appended Table 1].

② The curriculum for the Age-Tech Service Convergence Major is as per [Appended Table 2].

③ Curricula between majors may be mutually recognized with the approval of the Department Chair.

Article 6 (Prerequisite Courses)

① Students falling under the following categories must complete prerequisite courses:

1. Target: Graduates with a different major name, lower-level program graduates
2. Required Credits: 9 credits for Master's; 12 credits for Doctoral and Integrated programs.
3. Course Selection: Designated by the academic advisor.
4. Credits for housing-related courses earned in previous degree programs may be recognized as prerequisite credits upon approval by the advisor, Department Chair, and Head of Department through a formal credit recognition form.

Article 7 (Recognition of Courses from Other Departments)

① Students may take major courses from other departments with the Department Chair's approval, and these can be recognized as Elective Major credits.

1. Target: Graduate students
2. Maximum Recognized Credits: 12 credits.
3. Courses deemed relevant to the student's major and thesis topic may be taken with the advisor's approval.

② If the number of credits from other departments exceeds the recognized range, they may be recognized within the major elective range following a departmental meeting.

Article 8 (Graduate School Common Courses)

"Common Courses" (Convergence Education Lectures) offered to all graduate students may be recognized as credits for completion (graduation) upon approval by the advisor and Department Chair.

Article 9 (Coursework Completion)

① Completion is recognized for those who have fulfilled the coursework requirements in Article 4 and all requirements set by higher regulations.

② Those required to take prerequisite courses must earn them, though they do not count toward the completion credit total.

③ Only credits specified in each of the above articles shall be recognized as credits toward graduation when taken as courses in other departments or as common courses.

Article 10 (Graduation)

Graduation shall be granted only to those who have satisfied all graduation requirements, including those stipulated in Article 9, the degree qualification examination, the degree thesis, and the thesis publication requirements.

Article 11 (Degree Qualification Examinations)

① To submit a degree thesis, students in all programs must pass the Degree Qualification Examination (Public Presentation).

② In order to do the Public Presentation, students must first pass the Comprehensive Examination.

③ Comprehensive Examination Details:

1. Master's degree candidates must earn at least 18 credits to be eligible to take the comprehensive examination. Doctoral degree candidates must earn at least 27 credits, and integrated program candidates must earn at least 45 credits.
2. The qualifying exam for master's students is administered by their advisor. After consultation with the advisor, it assesses the student's understanding of major knowledge in two or more master's-level courses within one hour.
3. For doctoral/integrated doctoral-master's students, the qualification exam is administered by one faculty member from the department (excluding the student's advisor). In consultation with the advisor, the exam assesses the student's understanding of specialized knowledge in three or more doctoral-level subjects within one hour.
4. The qualifying examination (comprehensive exam) is graded as Pass (P) or Fail (N).
5. A score of 80 or higher (out of 100) is required to pass the qualifying examination (comprehensive exam). Students who fail may retake the exam.

④ Public Presentation Details:

1. To submit a thesis for degree conferral, the candidate must present the thesis content during the semester of application and pass the qualifying examination (public presentation).
2. To be eligible for the qualifying examination (public presentation), candidates must have completed (or be scheduled to complete) at least 24 credits for a master's degree, 36 credits for a doctoral degree, or 60 credits for an integrated program.
3. Passing the Qualifying Examination (Public Presentation) is valid for five consecutive semesters, including the semester in which the examination was passed.

Article 12 (Faculty Council of the Department of Housing and Interior Design)

① The Faculty Council of the Department of Housing and Interior Design (hereinafter referred to as the "Committee") shall be established to deliberate on major matters concerning the operation of the Graduate School.

② The Committee shall consist of all full-time faculty members of the Department of Housing and Interior Design.

③ The Chair of the Committee shall be the Department Chair of the Graduate School's Department of Housing and Interior Design. The Chair shall convene Committee meetings and serve as the presiding officer.

④ Committee meetings shall be resolved by a vote of more than half of the members present and the approval of more than two-thirds of the members present..

⑤ The Committee shall deliberate and decide on matters related to admission screening, academic affairs, student guidance, budget deliberation and resolution, and other general tasks of the department.

[Addendum 1]

① Effective Date: March 1, 2018.

② Interim Measures: Students admitted prior to the effective date of these implementation rules shall follow the curriculum of their respective former departments; however, they may be subject to the new curriculum if necessary.

[Addendum 2]

① Effective Date: March 1, 2020.

[Addendum 3]

① Effective Date: March 1, 2021.

[Addendum 4]

① Effective Date: March 1, 2022.

② Interim Measures:

A. The "Degree Qualification Examination" stipulated in the 2022 Implementation Rules for the Curriculum may also be applied to students admitted prior to the 2022 academic year.

B. The Degree Qualification Examination may substitute for a Public Presentation or a Qualifying Examination (an examination to determine eligibility for thesis submission).

C. For those substituting the Degree Qualification Examination, previously obtained Public Presentation or Qualifying Examination results shall not be recognized.

[Addendum 5]

① Effective Date: March 1, 2023.

② Interim Measures: Students admitted prior to the effective date shall follow the curriculum of their former departments, but may apply the new curriculum with the approval of the Department Chair following a department meeting, if necessary.

[Addendum 6]

① Effective Date: March 1, 2024.

② Interim Measures: Same as Addendum 1.

[Addendum 7]

① Effective Date: March 1, 2025.

② Interim Measures: Same as Addendum 1.

[Addendum 8]

① Effective Date: March 1, 2026.

② Interim Measures: Same as Addendum 1.

[Appendix]

1. Curriculum Schedule
2. Course Descriptions

[Appended Table 1] Curriculum Schedule for the Major in Housing and Interior Design

No.	Classification	Course Code	Course Title	Credits	Target Program		Instruction Type				Semester		Remarks
					Master	Doctoral	Theory	Practice	Skills	Design	1st	2nd	
1	Required	HI7001	**Statistical Analysis 1**	3	O	O	O				O	O	
2	Required	HI7011	**Research Methodology in Housing and Interior Design**	3	O	O	O				O	O	
3	Elective	HI7017	**Statistical Analysis 2**	3	O	O	O				O		
4	Elective	HI7018	**Housing, Society and Culture**	3	O	O	O				O		
5	Elective	HI7028	**Special Topics in Housing Sociology**	3	O	O	O					O	
6	Elective	HI7019	**Studies in Korean Housing History**	3	O	O	O					O	
7	Elective	HI7020	**Housing Policy and Market Analysis**	3	O	O	O				O		
8	Elective	HI7016	**Land, Housing and Urban Management**	3	O	O	O					O	
9	Elective	HI7021	**Property Development and Financial Management**	3	O	O	O					O	
10	Elective	HI7002	**Special Topics on Integrated Housing Facility Management**	3	O	O	O				O		
11	Elective	HI7029	**Advanced Studies on Housing Facility Operation & Maintenance Management**	3	O	O	O					O	
12	Elective	HI7003	**Advanced Studies on Housing Construction Management**	3	O	O	O					O	
13	Elective	HI7022	**History of Interior Design**	3	O	O	O				O		
14	Elective	HI7012	**Interior Design Studio**	3	O	O		O			O		
15	Elective	HI7006	**Interior Coordination Studio**	3	O	O	O					O	
16	Elective	HI7013	**Color Study on Interior Environment**	3	O	O	O					O	
17	Elective	HI7024	**Housing Design and Culture of Southeast Asia**	3	O	O	O					O	
18	Elective	HI7025	**Advanced Housing Design Marketing**	3	O	O	O				O		
19	Elective	HI7014	**Design Studies on Contemporary Housing Community**	3	O	O	O					O	
20	Elective	HI7010	**Design Studies**	3	O	O	O				O		
21	Elective	HI7026	**Architectural New Media**	3	O	O	O				O		
22	Elective	HI7009	**Independent Study**	P/F	O	O	O				O		
23	Elective	HI7015	**Independent Study 2**	P/F	O	O	O					O	
24	Elective	HI7049	**Age-Friendly Communities for Sustainable Aging**	3	O	O	O				O		
25	Elective	HI7050	**Theories for Healing and Therapeutic Remedy Space**	3	O	O	O					O	
26	Elective	HI7051	**Housing Demography and Future Cities**	3	O	O	O				O		
27	Elective	HI7052	**Urban Informatics and Smart Cities**	3	O	O	O					O	
28	Elective	HI7053	**Urban Policy and Planning for Human Settlement**	3	O	O	O				O		

[Appended Table 2] Curriculum Schedule for the Age-tech Service Convergence Major

No.	Classification	Course Code	Course Title	Credits	Target Program		Instruction Type				Semester		Remarks
					Master	Doctoral	Theory	Practice	Skills	Design	1st	2nd	
1	Required	HI7030 GRMD7638 EE796	**Introduction to AgeTech-Service**	3	O	O	O				O	O	Common to Master's & Doctoral programs
2	Required	HI7031 GRMD7636 EE797	**AgeTech-Service Capstone**	3	O	O	O				O	O	Common to Master's & Doctoral programs
3	Required	HI7032 GRMD7639 EE809	**Research Method to AgeTech-Service**	3	O	O	O				O	O	Common to Master's & Doctoral programs
4	Elective	HI7034	**AgeTech-Service Adoption**	3	O	O	O				O		
5	Elective	HI7035	**AgeTech-Service and Living Lab**	3	O	O	O				O		
6	Elective	HI7037	**Application of Natural products on Aging tech**	3	O	O	O				O		
7	Elective	HI7038	**Health Promotion Using AgeTech-Service**	3	O	O	O					O	
8	Elective	HI7039	**ICT-based Smart Nutrition Management Theory**	3	O	O	O					O	
9	Elective	EE7105	**Special Topics in Sensor Fusion for AgeTech**	3	O	O	O	O				O	
10	Elective	EE7106	**AgeTech data analysis based on Artificail Intelligence**	3	O	O	O	O			O		
11	Elective	EE7107	**Reinforment Learning for Optimizing AgeTech Environments**	3	O	O	O	O			O		
12	Elective	GRMD7651	**Personalized and Precision Medicine**	3	O	O	O					O	
13	Elective	GRMD7684	**AgeTech eHealth and medical Service capstone in the future**	3	O	O	O				O		
14	Elective	HI7047	**AgeTech and Elderly Housing Facilities**	3	O	O	O				O		
15	Elective	HI7048	**AgeTech Human-Centered Design**	3	O	O	O					O	
16	Elective	HI7005	**AgeTech and Future Housing**	3	O	O	O					O	
17	Elective	HI7054	**AgeTech-Sevice and Care Service in Older Adults**	3	O	O	O					O	
18	Elective	HI7055	**AgeTech-Sevice and Silver Economy**	3	O	O	O				O		
19	Elective	HI7056	**Latest Trends of Research Method for AgeTech-Service**	3	O	O	O					O	
20	Elective	HI7057	**AgeTech-Service Current Biotechnology Trend**	3	O	O	O				O		
21	Elective	HI7058	**AgeTech-Service Digital Health**	3	O	O	O				O		
22	Elective	HI7059	**AgeTech Intellectual Property**	3	O	O	O					O	
23	Elective	HI7060	**AgeTech-Service and Nutrition Service Management in Older Adults**	3	O	O	O					O	
24	Elective	HI7061	**AgeTech-Service and CareFood Development**	3	O	O	O				O		
25	Common	GRADS7245	**Biomedical and Behavioral research Ethics in Innovation Research**	3	O	O	O					O	
26	Elective	HI7063	**AgeTech Global Trends and Industrial society**	3	O	O	O				O	O	
27	Elective	HI7064	**AgeTech Advanced Statics**	3	O	O	O				O		
28	Elective	HI7065	**AgeTech-Service and STATA**	3	O	O	O				O		
29	Elective	HI7066	**AgeTech and Global Smart Home Trends**	3	O	O	O				O		New Course
30	Elective	HI7067	**AgeTech Global Digital Healthcare Trends**	3	O	O	O					O	New Course

[Appendix 3] Course Description

[Courses within the Housing and Interior Design Major]

1. Statistical Analysis 1
This course examines statistical procedures and analytical tools that focus on strategies and techniques to apply statistical concepts and to evaluate research studies. Descriptive and inferential statistics for data analysis are emphasized.

2. Research Methodology in Housing and Interior Design
This course is an overview of research methods used in Housing and Interior Design, and covers philosophical foundations that underlie a scientific approach to social research. Also, it includes research design, problem formulation, sampling, measurements, data collection, writing research proposal, and research ethics.

3. Statistical Analysis 2
The integration of theory and quantitative analysis skills is highlighted and an in-depth examination of multivariate analysis procedures is included in this course. The course requires students to have a strong grounding in multiple regression analysis and a working knowledge of a statistical package.

4. Housing, Society and Culture
Housing is shaped by social and cultural dimensions, and a wide array of the factors that influence housing variations around the world are extensively reviewed. Cross-cultural perspectives to understand housing and identity are of value of this course.

5. Special Topics in Housing Sociology
Analyzing conceptual framework of various approaches about issues on housing sociology with theoretical basis. Review the related articles and practice the social survey research with questionnaire.

6. Studies in Korean Housing History
Evolution of housing history in Korea is extensively examined, principal housing issues at different eras are closely discussed, and innovative approaches to an understanding of socio-psychology in relations to housing are evaluated.

7. Housing Policy and Market Analysis
This course is to understand the historical pathways of housing system in politico-economic and socio-demographic contexts and to gain wide-ranging insights in policy-making across states. As globalization reinforces uncertainty in financial market, unpredictability and volatility connectedness in housing and real estate industries are highlighted and the dynamics is analyzed.

8. Land, Housing and Urban Management
As an essential element in daily lives, housing and land are underpinned by human rights, and urban growth addresses far-reaching challenges as affordability, accessibility, cultural adequacy and availability of services. To ensure the physical, social and economic well-being of residents in cities, this course focuses on barriers and drivers of sustainability in land, housing and community, and further multi-faceted strategies are integrated into strengthening resilience, sustainability and inclusivity in urban settings.

9. Property Development and Financial Management
Labor mobility and capital flow in the global economy spur property investment and development across borders. This course covers all phases of property development and assessment and project management, and also it examines emerging issues in relation to property investment portfolios including financing, taxation and valuation.

10. Special Topics on Integrated Housing Facility Management
This course provides students with the comprehensive understanding of integrated facility management (FM) needed to develop practical knowledge of FM functions to ensure high quality delivery of services for optimized housing facility management.

11. Advanced Studies on Housing Facility Operation & Maintenance Management
This course provides a comprehensive understanding of housing facility maintenance management and also provides students with the skills and knowledge including key performance indicators (KPI) necessary to effectively assess and develop high performance housing facility.

12. Advanced Studies on Housing Construction Management
This course covers advanced skills and knowledge necessary to serve as a successful housing construction manager. Course topics include a wide range of subjects including construction management (CM), design build (DB), design-bid-build (DBB) and project coordination. The diverse aspects of project delivery system (PDS) will be discussed and analyzed in this course.

13. History of Interior Design
This course studies architectural elements and furnishings in history of interior design focusing on their cultural, social, economical and political factors. The current interpretation of these designs will be researched.

14. Interior Design Studio
Advanced study of interior design in a studio setting through the development and ution of strong design ideas. Projects include specific design situations with emphasis on implementation of all phases of the design process.

15. Interior Coordination Studio
This course introduces various interior styles and improve students' abilities to be successful in interior coordinations by practicing material selections and mixes.

16. Color Study on Interior Environment
This course gives a comprehensive understanding of theory and phenomenology of color in interior design and analyzes color changes and space modulation under natural lights and artificial lights.

17. Housing Design and Culture of Southeast Asia
This course aims to understand the vernacular housing cultures and contemporary design prototypes of various countries located in Southeast Asia.

18. Advanced Housing Design Marketing
This course aims to understand the marketing strategy and academic theories to develop the elderly housing facilities considering elderly’s physical condition. Through the analysis of various housing options and new emerging needs of elderly’s, this course will search for the new housing alternatives.

19. Design Studies on Contemporary Housing Community
This course aims to understand the history of housing community design in the 20th century. Students will analyze case studies of community design in Netherlands, Japan, Germany etc. and to systemize the planning theory of community design.

20. Design Studies

This course provides a comprehensive understanding of 'designedly' ways of knowing and thinking emerged in design education and enhances the students' creative cognition in design and insight into their own research.

21. Architectural New Media

This course gives a detailed introduction to the principles, theories and methods of information technology in the design domain and explores the potential of emerging computational techniques to support designers in the design process.

22. Independent Study

This course is guided individual reading or study available for master's students

23. Independent Study2

This course is guided individual reading or study available for master's students

24. Age-Friendly Communities for Sustainable Aging

This course emphasizes a holistic approach to ensuring quality of life for aging populations, to enhancing independent living in housing and to reinforcing healthy aging in communities. In so doing, a wide array of age-friendly strategies embedded into community sustainability are examined, and diverse resources, applicable practices and viable solutions are demonstrated.

25. Theories for Healing and Therapeutic Space

This course provides a comprehensive understanding of physical and social characteristics of environment that impact the processes of healing and therapy of human beings and diverse research methods to measure them with multidisciplinary perspectives.

26. Housing Demography and Future Cities

This multidisciplinary course places emphasis on core topics in urban demography (including fertility, mortality, migration, aging and health) combined with contemporary housing issues on the basis of theoretical principles and data analysis techniques. Also it addresses a synthesized approach to forecasting indicators on population and spatial settings to map out multiple scenarios of futuristic cities and to form the policy agenda of urban future.

27. Urban Informatics and Smart Cities

This course aims to explore comprehensive urban data analytics and methodological tools for the well-being of urban residents in real depth and detail. Such techniques and skills as quantitative analysis, big data mining, machine learning, artificial intelligence, data mapping, and data visualization are utilized to give practically informed insights of inclusive and equitable cities to service providers and policy makers in public agencies, private industries and non-profit organizations.

28. Urban Policy and Planning for Human Settlement

This course addresses policy issues and substantive debates in the area of urban planning and regional development, as well as national territorial strategies, and focuses on an interplay of political, economic and socio-cultural forces which critically formulate sustainable and smart places and spaces for human settlement.

[Courses within the Age-tech Service Convergence Major]

1. Introduction to AgeTech-Service

This course presents an overview of AgeTech-Service in the development and expansion of AgeTech-Service industries, including the big data, AI, and IT. This course focus on the active and independent life of healthy older adults and life in need of care of the elderly with various technological industries and research trends.

2. AgeTech-Service Capstone

This course is applying the knowledge acquired in the AgeTech-Service Convergence Major to social problems. This course also cultivates the application skills, problem-solving skills, and reasoning skills through creative design suitable for the needs of the field.

3. Research Method to AgeTech-Service

This course introduces the research methods for planning, development, usability evaluation, and implementation of AgeTech-Service, and teaches the recent research method.

4. AgeTech-Service Adoption

Also, this course Introduces a variety of techniques for older adults and caregivers (mobile application for caregiver's health, transfer robot in a care facility, etc.) and study how to improve their technology utilization.

5. AgeTech-Service and Living Lab

This course introduces several living lab research focuses on AgeTech-Service. Students also learn recent research skills and methods in the real-world living lab.

6. Application of Natural products on Aging tech

This lecture will provide knowledge of the effects and principles of natural product formulations and supplements, and will review the developmental process of novel drugs to provide practical and professional knowledge to become a developer.

7. Health Promotion Using AgeTech-Service

This lecture will discuss in detail how aging tech service can actually contribute to the health promotion of the elderly, and suggest the future direction of anti-aging technology through the advantages and disadvantages of existing technologies.

8. ICT-based Smart Nutrition Management Theory

Students will be able to relate theories to reduce health care costs for management and prevention of chronic diseases and to enable personalized nutrition management using ICT. This course will help to improve critical thinking skills to compare and evaluate various wearable devices, food visualization data, and nutrition management apps.

9. Special Topics in Sensor Fusion for AgeTech

This course presents an overview of sensor fusion in practice and research with topics including vision, audio, touch, motion, and inertial sensors. In course projects, students construct sensor fusion system which are processed by various micro-controllers, with each project reinforcing the basic principles developed in lectures. This course will also expose students to some of the contemporary happenings in sensors, which includes current research, applications, sensor contests and sensors in the news.

10. AgeTech data analysis based on Artificail Intelligence

This course teaches theory and techniques fo the artificial intelligence (AI) for analyzing the various data, including image, generated at aged persons's environments. Especially, in order to learn and practice the contents and techniques of deep learning that is applied in various fields recently, students implement the CNN based deep learning program with Python/TensorFlow. Using the implemented program, students practice image recognition and classification for MNIST image set or Cifur110 image set.

11. Reinforment Learning for Optimizing AgeTech Environments

In order to develop techniquesproviding convenient movementsof aged persons, this course teaches the reinforcement learning that would be a fundamental method for tracking the optimal path in adaptation to aged person's living environments. We learn the dynamic programming based on Monte-Carlo and Temporal-difference learning class, and then learn Deep-Q Netwok (DQN) and Actor-Critic (AC), which are important techniques for reinforcement learning. Students will practice the reinforcement learning method finding the optimal movement for aged person's wheelchairs.

12. Personalized and Precision Medicine

In this course, you will understand the characteristics of personalized medicine for the health care and disease treatment process needed in an aging society. Understand the health management method to prepare for an aging society through precise medicine that emerges as a medical treatment in the 4th Industrial Revolution era, and understand lifecare management and disease management in the process of applying it.

13. AgeTech eHealth and medical Service capstone in the future

eHealth is the use of information and communication technologies (ICT) for the efficiency, accessibility, and quality control of health service. In order to support the independent activities of daily living and health promotion for the elderly in the super-aged society, this course aims to understand new paradigm of eHealth system and consider the aspect and the role of medical service in the future.

14. AgeTech and Elderly Housing Facilities

In order to support the independent living for the elderly in the super-aged society, this course highlights the importance of the elderly living environment and provides the case study of various housing options for the active and fragile elderly. This course aims to enhance the knowledge about the architectural space planning, interior design and universal design guidelines considering the psychological and physical characteristics of the elderly.

15. AgeTech Human-Centered Design

This course aims to enhance understanding of human behavior and usability through a human-centered design approach that involves human perspective in all stages of planning and designing of built environment to develop and apply technology and service for elderly living. Through an investigation of a wide range of theories and case studies, students will provide a solution to a problem relevant to real life.

16. AgeTech and Future Housing

This course provides a comprehensive understanding of future housing and research methods relevant to future housing studies. A wide range of future housing project will be investigated and analyzed.

17. AgeTech-Sevice and Care Service in Older Adults

This course covers the theory and practice of AgeTech-Service and older adult care services (nursing care services, etc.). It explores convergence approaches between age services (continuous care, resident-centered care, etc.).

18. AgeTech-Sevice and Silver Economy

This course identifies the industry and market status of the AgeTech-Service and silver economy. It introduces global trends of AgeTech-Service (such as the EU's silver economy) and overseas case strategies and policies. In addition, we explore ways to apply AgeTech-Service and the silver economy by identifying the needs of Korean consumers and companies.

19. Latest Trends of Research Method for AgeTech-Service

This course aims to understand the latest trends in the AgeTech-Service. The AgeTech-Service Latest Trends class introduces the overall process of understanding new issues related to the silver economy and older adults and applying advanced research methods based on scientific inquiry.

20. AgeTech-Service Current Biotechnology Trend

Beyond the traditional pharmaceutical industry, biotechnology is making a significant contribution to solving problems facing humanity in the 21st century, such as healthy aging, energy and resource depletion, and pandemic/post-pandemic response. In this course, we study the current bio industry (biochemicals, pharmaceuticals, food, energy, agriculture, analysis) and its role in the pandemic/post-pandemic situation.

21. AgeTech-Service Digital Health

Advances in information and communication technology are leading innovation in the healthcare sector. This lecture provides a general understanding of the history and evolution of digital health and the emergence of new products and services in the health field.

22. AgeTech Intellectual Property

Intellectual property rights are the best strategy to secure a company's competitiveness in a fierce market environment. To acquire intellectual property rights in the AgeTech field, which is differentiated from other technology fields, learn to understand patents, search for patents, and write patent specifications.

23. AgeTech-Service and Nutrition Service Management in Older Adults

In order to maintain and improve the health of older adults, we explore the current status of nutritional service policies and systems at home and abroad and comprehensively learn about elderly care meal services and nutrition programs.

24. AgeTech-Service and CareFood Development

The care food market is expected to grow further in line with changes in social structure, such as an increase in the elderly population, single-person households, and people with chronic diseases. In the case of care foods for older adults, foods that consider chewing function, digestive ability, and nutritional balance should be applied. Accordingly, through this class, we will analyze the current status and prospects of domestic and foreign care foods, the development and characteristics of care food products in the industry, and derive actual customized diet design and food development ideas.

25. Biomedical and Behavioral research Ethics in Innovation Research

In order to provide practical help to researchers conducting research, this course includes all matters necessary for research ethics and the on-campus IRB review process. It provides practical help in writing research review documents and manuals by providing review issues for each major.

26. AgeTech Global Trends and Industrial society

The subject goal is to forecast AgeTech megatrends by learning and analyzing domestic and international trends, future prospects, and changes in industry and society in the AgeTech field. Through this, we aim to strengthen the competency of the AgeTech industry to be sustainable and contribute to industrial society.

27. AgeTech Advance Statics

This subject aims to learn comprehensive analysis methods that systematically and quantitatively analyze various research results. In particular, students will analyze data types, learn a series of systematic reviews (SR), meta-analysis and other statistical methods through by R progrom. The students will learn to combine theory and practice in applying them to research.

28. AgeTech-Service and STATA

This course examines how to utilize advanced statistical research in the AgeTech-Service field through the STATA program. Based on various surveys and empirical data in the fields of gerontology and AgeTech, this course aims to learn advanced statistical methods such as panel models, propensity matching analysis, and difference-in-difference analysis.

29. AgeTech and Global Smart Home Trends

This course explores AgeTech as a key field responding to the challenges of population aging, with a focus on how global Smart Home innovations are transforming the quality of life and care environments for older adults. Topics include age-friendly housing design, digital healthcare systems, AI-driven care technologies, Internet of Things (IoT) and sensor networks, robotics, and wearable devices within the smart home ecosystem. The course also provides a comparative analysis of AgeTech policies and global market trends while understanding the ethical, social, and policy implications of technology-assisted aging.

30. AgeTech Global Digital Healthcare Trends

This course examines global trends in AgeTech and digital healthcare technologies in response to population aging, aiming to enhance understanding of their applications and future directions in medical and aging-related fields.