

Syllabus

Search

DSN4116-01 (2ND SEMESTER, 2022)



Created Date	2022-06-29 17:15:07	Last-Modified	2022-06-29 17:15:11
Course Title	PRODUCT-SERVICE SYSTEM DESIGN	Credit	3
Location	SSH710/SSH704	Time	Thu1,2,3,4/Thu1,2,3,4

Instructor	BAEK JOON SANG	Department	생활과학대학 생활디자인학
Office		Telephone	
e-mail & Office Hour			

Core Competencies	혁신주도리더십	통합적 문제해결 능력	디자인실행능력
	50	30	20

Target Students	This course is for students from varying backgrounds such as design, engineering, management, marketing, and humanities. A basic understanding of product design is an advantage.
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Course Description & Goals	<p>This is an introductory class to sustainable product-service system (PSS) design. It aims at exploring what PSS is and how to design a PSS. The class is thus composed of two parts: 1) Understanding PSS, and 2) Designing PSS. In the first module, students will be guided with the notion, examples, process and methods of PSS design. In the second module, students will be given a topic and use the knowledge acquired from the first module to design a PSS through a project or an experiment. Through the class, students will be guided with an overall process of problem-solving at the systemic level. Due to the nature of the subject, the class will cover topics from various fields including design, engineering, management, and marketing.</p> <p>From this class, students will be able to:</p> <ul style="list-style-type: none"> ? How to approach and solve complex design problems with systemic thinking and tools through both research and hands-on practice ? Explore PSS methodologies, ? Generate solutions in the form of product-service systems, ? Communicate and evaluate the outcomes <p>Deliverables Weekly readings and summaries, case study presentations, interim presentations, PSS concept and scenario, final presentation & report</p>
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Prerequisite	-
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Course Requirements	-
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Grading Policy(Absolute)	<p>Class participation (preparation, discussion, Q&A, etc.) 15%</p> <p>Summaries & questions on the readings 20%</p> <p>Case studies & presentations 15%</p> <p>Project 30%</p> <p>Collaboration skills 20%</p>
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Texts & References	New business for old Europe by Tukker and Tishner (2006). Available
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	in the library.
Instructor's Profile	Associate professor in the Department of Human Environment and Design
TA's Name & Contact Information	TBD
Syllabus in English	-

Week	Period	Weekly Topic & Contents	Course Material Range & Assignments	Reference
1	2022-09-01 2022-09-07	Course intro, intro to PSS Background of PSS	Read and summarize TT ch 3 (p51-62). Raise 2+ questions on LearnUs. A sustainable PSS case study per student. 10-min PT starting next week.	(9.1.) Fall semester classes begin (9.5. - 9.7.) Course add and drop period
2	2022-09-08 2022-09-14	Competitiveness of PSS PSS case studies	Read and summarize TT ch 4-1 (p72-75, 77-83).	(9.9. - 9.12.) Chuseok Holiday & Substitute Holiday for Chuseok
3	2022-09-15 2022-09-21	Sustainability of PSS PSS case studies	Read materials on service design tools	
4	2022-09-22 2022-09-28	Project intro Service design and its process Understanding the problematic situation	Conduct market and user studies Collect the data and report your progress next week	
5	2022-09-29 2022-10-05	Understanding the problematic situation (continued) Stakeholder analysis	Read materials on the climate change and adaptation.	(10.3.) National Foundation Day
6	2022-10-06 2022-10-12	Root definition of relevant systems Data collection planning	Start collecting stakeholder data. In-progress report on Oct 15, data collection due Oct 22.	(10.7.) First third of the semester ends (10.10.) Substitute Holiday for Hangul Proclamation Day
7	2022-10-13 2022-10-19	Stakeholder study in-progress report Workshop: stakeholder need analysis using persona, affinity diagram	Complete user data collection by Oct 22. Mid-term report due October 29.	
8	2022-10-20	Workshop: problem framing and	3 idea sketches	(10.20. - 10.26.) Midterm

	2022-10-26	opportunity finding	per person (individual work)	Examinations
9	2022-10-27 2022-11-02	Workshop: Ideas presentation and selection, concept development using story board and system map	Complete story board, system map, idea sketches of products Read a material on service blueprint	(10.27. - 10.31.) Course withdrawal period (11.1. - 11.3.) Application Period for S/U evaluation
10	2022-11-03 2022-11-09	Critique: What is your PSS concept? Workshop (continued): concept development using story board and system map Workshop: service process visualization using blueprint, scenario storyboard	Complete journey map, scenario storyboard, product modelling (or detailed sketches)	
11	2022-11-10 2022-11-16	Workshop: Scenario revision Workshop: Scenario visualisation for PSS promotion	Service visualisation and service evidences prototyping	(11.14.) Second third of the semester ends
12	2022-11-17 2022-11-23	Workshop: Scenario visualisation for PSS promotion (continued)	Service visualisation and service evidences prototyping	
13	2022-11-24 2022-11-30	Workshop: Questionnaire design for PSS evaluation Revision of service evidences and scenario visualisation	Prepare the online exhibition: graphics, movie, texts, etc.	
14	2022-12-01 2022-12-07	Evaluation of environmental & social sustainability	Exhibition	
15	2022-12-08 2022-12-14	Final presentation	Final report submission	(12.8. - 12.14.) Self-study
16	2022-12-15 2022-12-21			(12.15. - 12.21.) Final Examinations

* Changes in Management of Academic Semester

During the midterm examinations (2022.10.20. - 10.26.) and final examinations (2022.12.15. - 12.21.) period, classes or self-study should be continued unless there is an exam scheduled during the week.

* According to the University regulation section 57-2, students with disabilities can request special support related to attendance, lectures, assignments, or exams by contacting the course professor at the beginning of semester. Upon request, students can receive such support from the course professor or from the Center for Students with Disabilities(OSD). The following are examples of types of support available in the lectures, assignments, and exams:

(However, actual support may vary depending on the course.)

[Lecture]

- Visual Impairment: alternative, braille, enlarged reading materials, note-taker
- Physical Impairment: alternative reading materials, access to classroom, note-taker, assigned seat
- Hearing Impairment: note-taker/stenographer, recording lecture
- Intellectual Disability/Autism: note-taker, study mentor

[Assignments and Exam]

- Visual, Physical, Hearing Impairment: extra days for submission, alternative type of assignment, extended exam time, alternative type of exam, arranging separate exam room, and proctors, note-taker
- Intellectual Disability/Autism: personalized assignments, alternative type of evaluation

