2025Year 1st Semester Syllabus

Created Date	2024-12-12 21:33:21			Last-Modified	2024-12-12 21:55:51							
Course Title	INTRODUCTION TO STATISTICS			5	Course Code-Section	STA1001-11						
Credit/Time/ Experiment,Lab,Pr actical Technique Time	3/(Tue1)Tue2/Thu1,2				Department	Common Curriculum (Sinchon Campus)						
Time	(Tue1)Tue2/Thu1,2				Location	(DWHMB103)DWHMB103/Pre-recorded lecture						
Exam Date & Time	Midterm exam			Final exam								
Class Language	English				Evaluation Type Absolute evaluation							
	Name	Kim Mijung				Telephone						
Instructor's Profile	Department		DEPARTMENT OF APPLIED STATISTICS		Contact Information	Mail	MJKIM@YONSEI.	AC.KR				
	Office					Interview information						
<u></u>						•						
TA's Name & Contact Information	Name				Contact Information	Telephone						
Course Description Brief Introduction o Course	and b Stude	asic technique ents are expect	es of inferential sta ed to be familiar v y distribution, and 통계학의 기본개님	with statistical thinl inferential statistic 겸을 학습하기 위하여	king and the basic is through this cou 확률론의 기본 개념	c concepts of descr urse.						
Course Goals			Korean		수에 대하여 학습한대 해를 바탕으로 통계회	에 대하여 학습한다. 를 바탕으로 통계학의 기본 이론인 중심극한 정리에						
		1.	English	For learning the basic concepts of statistics, students study probability, random variables, and probability distribution functions, which are the basic concepts of probability theory. Based on the understanding of probability theory, students learn about the central limit theorem, which is the basic theory of statistics.								
			Korean	학기 전반부에 배운 확률론과 중심극한정리에 대한 이해를 바탕으로 통계적 추론의 방법을 학습한다. 이로부터 표본자료에 근거한 통계적 추론의 전반적인 절차를 이해하도록 한 다.								
		2.	English	Students learn statistical inference based on the understanding of probability theory and central limit theorem learned in the first half of the semester. From this, students will understand the overall process of statistical inference based on sample data.								
			Korean	통계학의 개념에 대한 실제적 이해를 돕기 위하여 R 프로그램을 활용한 시뮬 레이션 학습을 병행한다.				20%				
		3.	English	Students will get help understanding the concept of statistics with simulation study using the R program combined.								
		4.	Korean					0%				
			English									



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		5.	Korean										0%
		Э.	English										0 78
Coro Compot	opeige	The to 25%.	otal measu The core	irable co and ma	ompetencie jor compete	s must encies s	be ho	100%. Each uld equal at	cours least 5	e objective s 60%.	hould	set the co	mpetency as
Core Compet	encies												
Sub-Compete Unit1	encies/Learning												
Sub-Compete Unit2	encies/Learning												
Sub-Compete Unit3	encies/Learning												
Core Compet Arts)Major co	encies(Liberal pmpetency(Must reflect the interrelationship between core competencies (elective courses) and major competencies (major studies).											competencies
Sustainable D Goals	evelopment												
Average Recommended Amount of Learning per		Average Reading Volume		g				Ave wri	Average amount writing(Based or				
Course Metho	ods (%)	Lecture			Practice Training			Presentatio	-		abate Tea		am Project
Total Amoun			7	0%		30%			0%		A4) abate Tea 0%		0%
Course Metho	ods 2	PE	BL Subject		Capstone D	esign	II	CBL, Socia nnovation Co		Flipped Cla	Dabate Tea		Work ence,Internsh
Select Releva	nt Items												
Grading Polic Total Amoun			lterm am	Final e	xam	Quiz		Individua Assignmer		Team Assignment			Others
Free Input for Information	Other		40%		40%	0	%	10	%	0%			0%
		Title	of Assignr Metho	ment/Pr od of Fil	oject Name ling Out	, and		Submissio Deadline		Type o	Type of Submission and N		d Method
Assignment/													
Report, Proje	ct Guide												
Prerequisite		Calculus is recommended.					Online Course Address		LearnUs				
Course Course Material Name		lame	Author		Publisher		Publish Year			ISBN			
참고자료													
참고자료	방고자료 Probability & Statistics for Engineers and Scientists			Walpole, Myers, Pears Myers, Ye									
				-						-			

	Undergraduate students who want to learn statistics.
Main Learner Precautions	



Attatchment	

Weekly Plan

week	Period	Weekly Topic & Contents	Remarks
1	2025-03-04 2025-03-10	Introduction to: relation between probability and statistics statistics & data analysis	(3.4.) Spring semester classes begin (3.6 3.10.) Course add and drop period
2	2025-03-11 2025-03-17	Concepts for Probability : Definition of Probability, Conditional Probability, Properties of Probability	
3	2025-03-18 2025-03-24	Random Variables, Probability Distributions	
4	2025-03-25 2025-03-31	Expectation and Variance	
5	2025-04-01 2025-04-07	Discrete probability models	
6	2025-04-08 2025-04-14	Continuous probability models (1)	(4.9.) First third of the semester ends
7	2025-04-15 2025-04-21	Continuous probability models (2)	(4.15 4.17.) Course withdrawal period
8	2025-04-22 2025-04-28	**Supplementary Lecture for May 6 ** Midterm Exam (10:00~11:40 am on Saturday, Apr. 26)	(4.22 4.28.) Midterm Examinations
9	2025-04-29 2025-05-05	Random Sample Statistics and their distributions Distribution of sample mean	(4.29 5.1.) Application period for S/U evaluation (5.5.) Children's day, The day of Buddha's coming 05.05 부처님오신날
10	2025-05-06 2025-05-12	Central Limit Theorem Distribution of sample variance Distribution of sample proportion	(5.6.) Alternative holiday for Children's Day 05.06 대체공휴일
11	2025-05-13 2025-05-19	Inference : Estimation (1)	(5.16.) Second third of the semester ends
12	2025-05-20 2025-05-26	Inference : Estimation (2)	
13	2025-05-27 2025-06-02	Inference : Testing Hypotheses (1)	
14	2025-06-03 2025-06-09	Inference : Testing Hypotheses (2)	(6.6.) Memorial day 06.06 현충일
15	2025-06-10 2025-06-16	** Final Exam (10:00~11:40 am on Saturday, June 14)	(6.10 6.16.) Self-study
16	2025-06-17 2025-06-23		(6.17 6.23.) Final Examinations



• Students with disabilities (SWDs) can request accommodations related to lectures, assignments, or tests by contacting t

he course professor at the beginning of semester.

(However, accommodations may vary depending on the essentiality of lecture and discretion of professors.) [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

[Assignments and Test]

- Visual/Physical/Hearing Impairment: (reasonable) extra days for submission, alternative type of assignment, extende

d test time, alternative type of test, arranging separate test room, and proctors, test ghostwriter

- Intellectual Disability/Autism: (reasonable) extra days for submission, alternative type of assignment

