

## 2023학년도 1학기 교수계획표

교과목명 (Course Title)	Linear Model	교과목번호 (Course Code)	ST6800649	분반 (Section)	001
개설학과 (Department)	통계학과	개설학년 (Level)	1,2th year	학점-이론-실습 (Credit-Theory-Practice)	3.0-3.0-0.0
강의시간 및 강의실 (Class Hours & Classroom)					
담당교수 (Lecturer)	김충락	연구실 (Office)		상담가능시간 (Office Hours)	
		연락처 (Telephone)		이메일 (E-mail)	
수업방식 (Methodology of Instruction)	• 대면수업(전자철판)				
평가방법 (Evaluation and Grading)	* 장애학생의 경우 시험시간의 연장이 가능하며, 대필이나 컴퓨터를 활용하여 시험에 응할 수 있습니다. (Students with disabilities can request an extension of the exam hour, and they can take exams by getting writing assistance or by using a computer.)				
선수과목 및 지식 (Prerequisites)					
교수목표 (Course Objectives)	In this course, I introduce the basic concepts of linear models such as mutivariate normal distribution, least squares, and hypothesis testing.				
강의개요 (Course Description)	<ul style="list-style-type: none"> <li>- matrix algebra</li> <li>- multivariate normal dist.</li> <li>- least squares</li> <li>- hypothesis testing</li> </ul>				
교재 및 참고자료(Textbooks and References)					
주교재 (Required Textbooks)	Title : Linear Regression Analysis Authors : Seber and Lee Publisher : Wiley				
참고자료 (References)	Applied Regression Analysis (Draper and Smith) by Wiley				

주별 강의계획(Weekly Schedule of Classes)		
주차 (Week No.)	강의 및 실험 실기 내용 (Course Material)	과제 및 기타 참고사항 (Assignments and Other Notes)
제1주 (Week 1)	Matrix Algebra I	
제2주 (Week 2)	Matrix Algebra II	
제3주 (Week 3)	Vector of random Variable I	
제4주 (Week 4)	Vector of random Variable II , Multivariate Normal Distribution I	
제5주 (Week 5)	Multivariate Normal Distribution II	
제6주 (Week 6)	Linear Regression I	
제7주 (Week 7)	Linear Regression II	
제8주 (Week 8)	Linear Regression III	
제9주 (Week 9)	Linear Regression IV	
제10주 (Week 10)	Linear Regression V, Hypothesis Testing I	
제11주 (Week 11)	Hypothesis Testing II	
제12주 (Week 12)	Confidence intervals and regions	
제13주 (Week 13)	Straight-line Regression I	
제14주 (Week 14)	Straight-line Regression II	
제15주 (Week 15)	기말시험	