UNIVERSAL PASSPORT RX[3]

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Subject Mathematics for for and analysis		ormal economic modeling	Subject	Mathematics for for and analysis	mal economic modeling	
Instructor	BAI YU,LI YANJUN	I	Instructor	BAI YU		
Day · Period	Tue.1Period	Tue.1Period				
Eligible Participants	3.4					
Course Numbering	EAL-ECM328E	EAL-ECM328E				
Credit(s)	2Credits	2Credits				
Course of Media Class						
Main Subjects						
Object and Summary of Class	It will focus on cale analyzing and under students. If underg	This course is designed to equip students with the essential mathematical tools necessary for formal economic analysis. It will focus on calculus, linear algebra, and advanced methods such as dynamic optimization, all of which are crucial for analyzing and understanding advanced economic models. Kindly note that this course is primarily designed for master's students. If undergraduate students wish to enroll, they should have a strong foundation in calculus, as well as proficiency in listening, speaking, reading, and writing in English.				
Goal of Study		To learn how to apply mathematical techniques in formal economic analysis. To develop the ability to utilize mathematical tools to address a range of economic problems.				
Differentiation and integration Multivariable calculus: partial derivatives, optimization Applications of calculus in economic theory: utility maximization, cost minimization Linear Algebra: Contents and Progress Schedule of the Class Vectors, matrices, and systems of linear equations Eigenvalues and eigenvectors Other Advanced Mathematical Topics for Economics: Log-linearization Dynamic Optimization And other related topics						
Practical business						
Language Used in Course	English	English				
Evaluation Method	Midterm exam (clo	Homework assignments: 40% Midterm exam (closed-book): 30% Final exam (closed-book): 30%				
Textbook and References						
書名	著者名	出版社	出版年	ISBN/ISSN	資料種別	
Specific references will be provided during the class.						
U R L						
Preparation and Review	Place kindly and	il me to confirm the time -	hai vu c2@tobolu co in			
<u> </u>	i lease killuly eilläl	Please kindly email me to confirm the time at bai.yu.c2@tohoku.ac.jp.				
Attached File						
In Addition						

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One-credit courses require 45 hours of study. In lecture and exercise-based classes, one credit consists of 15-30 hours of class time and 30-15 hours of preparation and review outside of class. In laboratory, practical skill classes, one credit consists of 30-45 hours of class time and 15-0 hours of preparation and review outside of class.