

Toyama College		Year	2022	Course Title	Management Information I
Course Information					
Course Code	0140		Course Category	Specialized / Elective	
Class Format	Lecture		Credits	School Credit: 1	
Department	Department of International Business		Student Grade	4th	
Term	First Semester		Classes per Week	2	
Textbook and/or Teaching Materials					
Instructor	Hagiwara Shingo				
Course Objectives					
1) Students will be able to explain basic statistical calculations. 2) Students will be able to explain the tendency by data analysis. 3) Students will be able to explain how to mathematically determine the amount of orders.					
Rubric					
	Ideal Level of Achievement (Very Good)		Standard Level of Achievement (Good)		Unacceptable Level of Achievement (Fail)
Evaluation 1	Understand and be able to explain about naive set theory.		Understand and be able to explain about naive set theory.		Cannot understand and explain naive set theory.
Evaluation 2	Understand and be able to explain the calculation of probability.		Understand and be able to explain simple probability calculations.		Understand and be able to explain simple probability calculations.
Evaluation 3	To be able to calculate variance and standard deviation, taking into account the sample and population.		Able to explain basic statistical calculations.		Cannot explain basic statistical calculations.
Assigned Department Objectives					
ディプロマポリシー 1					
Teaching Method					
Outline	The purpose of this lecture is to acquire the ability to analyze data. In this course, students are expected to be able to understand 1) naive set theory, permutations and combinations, 2) probability theory, and 3) statistics.				
Style	The course will be given by the teacher alone in a lecture format.				
Notice	Students whose grades are below 60 may take an additional assignment upon request. If the student is allowed to earn credits as a result of the additional work, the grade will be 60 points.				
Characteristics of Class / Division in Learning					
☐ Active Learning		☐ Aided by ICT		☐ Applicable to Remote Class	☐ Instructor Professionally Experienced
Course Plan					
1st Semester	1st Quarter		Theme	Goals	
		1st	Outline	Explanation of the lecture schedule	
		2nd	Set Theory	Understand the concept of sets.	
		3rd	set theory	Able to perform operations related to sets.	
		4th	set theory	Understand mappings.	
		5th	summation	Able to perform sum operations.	
		6th	Permutation	To be able to explain permutations.	
		7th	Combinatorics	To be able to explain about combinations.	
	8th	Probability theory	Understand events and spaces in probability theory.		
	2nd Quarter	9th	Probability theory	To be able to calculate elementary tasks in discrete probability.	
		10th	Probability theory	Understand random variables in discrete probability.	
		11th	probability theory	To be able to transform set operations in discrete probability.	
		12th	probability theory	Understand the concepts of independence and exclusion in discrete probability.	
		13th	probability theory	Understand peripheral probability, simultaneous probability, and conditional probability in discrete probability.	
		14th	Probability Theory	To be able to understand expected value and variance in discrete probability.	
		15th	Final exam	To confirm the contents of the lecture.	
16th		Grade evaluation and confirmation	Summarize the lecture and check grades.		
Evaluation Method and Weight (%)					
	Examination	Issue	Total		
Subtotal	80	20	100		
Basic Ability	50	10	60		
Technical Ability	30	10	40		

Interdisciplinary Ability	0	0	0
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