Tsuyama College		Year	2020		Course Title	pplied Mathematics I			
Course Informati	on								
Course Code	0093		Course Cate		General	/ Compulsory			
Class Format	Lecture			Credits	School C	redit: 2			
Department	Department of Integrated Science and Technology Communication and Informations System Program			Student Grade	4th				
Term	Year-round			Classes per Week	2				
Textbook and/or Teaching Materials									
Instructor	MATSUDA O	samu							
Course Objective									
and the probability of	us probabilitie mutual exclu	s and underst sivity.	and the probabilit	y of complementar	y events, the	addition theorem of probability, ilities and the probabilities of			
independent events.	and 2D data t basic sample	to obtain mea distribution a	n, variance, stand nd be able to calc	lard deviation corr	elation coeffic	cient, and regression line.			
Rubric				1					
				Standard Level		Unacceptable Level			
Achievement 1		vents, the add robability, and	omplementary lition theorem of I the probability isivity, and solve	addition theorem of probability,		Cannot solve about 60% of the basic problems of the probability of complementary events, the addition theorem of probability, and the probability of mutual exclusivity.			
Achievement 2		probabilities, multiplication rules of probabilities, and probabilities of independent		Can solve about 60% of the basic problems of conditional probability, multiplication rule of probability, and probability of independent events.		Cannot solve about 60% of the basic problems of conditional probability, multiplication rule of probability, and probability of independent event.			
Achievement 3		tandard devia	ean, variance, tion, correlation ression line, etc. data and can	Understand and c the mean, variand deviation, correla coefficient, regres of 1D and 2D data	ce, standard	Doesn't understand the mean, variance, standard deviation, correlation coefficient, regression line, etc. of 1D and 2D data.			
Achievement 4		learly underst f the basic sar nd can calcula sing it.	and the meaning nple distribution te probability	Can calculate using a basic sample distribution and work about 60% of problems.		Cannot calculate using a basic sample distribution and cannot work about 60% of problems.			
Achievement 5		f estimating th arameter and ne test, and ca	the method of	Can solve about 6 standard problem the method of est population param	s related to imating the	Cannot solve about 60% of the standard problems related to the method of estimating the population parameter.			
Assigned Departr	nent Objec	tives							
Teaching Method									
	General or S	pecialized : Sp	pecialized						
	Field of learning : Natural science Common / Basic								
	Required, Elective: Elective must complete subjects								
	Foundational academic disciplines : Mathematical science / Mathematics / Analysis basics								
Outline	Relationship with Educational Objectives : This subject corresponds to the learning goal "(2) Acquire basic science and technical knowledge".								
	Relationship with JABEE programs : The main goal of learning / education in this class are "(A) , A-1".								
	Class Outline: In Applied Mathematics I, you will learn the basics of probability theory and statistics. In probability theory, we look at the theory of distributions (binomial distribution, Poisson distribution, normal distribution) and the central limit theorem, which are important in statistical processing. Learn the equations of correlation and regression line as an arrangement of two-variable data. Finally, learn how to estimate and test the population.								
	Course method : Focus on understanding the content on the board, and assign as many exercises as possible to deepen understanding.								
Style	Grade evaluation method : 4 regular exams (50%) and other exams, exercises, reports and effort of class(50%). etc, A re-examination may be conducted. The retest will be evaluated in the same way as the main test, with an upper limit of 80 points. Textbooks, notebooks, etc. are not allowed for the exam.								

Presentations on encollence 1: Students must take this class (on more than one-third of the required number of class hour motions to insert the schedure variable. Notice Curryse advice: This course to appret the parameter. Presentation: Students and integral 1 (200). Differential and integral 1 (200). Differential and integral 1 (200). Differential and integral 1 (200). Related subjects after the third year Related subjects: Humanics, physics, and other subjects after the third year Related subjects: Mathematics, physics, and other subjects after the third year Related subjects: Mathematics, physics, and other subjects after the third year Related subjects: Mathematics, up wise, and other subjects after the third year Related subjects: Mathematics, up wise, and other subjects after the third year Related subjects: Mathematics, up wise, and other subjects after the third year Related subjects: Mathematics, up wise, up and other subjects after the basic formula of probability String and the subject after subjects after the third year Related subject in the subject after subjects after subjects String and the subject after su											
Notice engineering, so this course is of great importance. Poundational subjects: Fundamental Mathematics (1st year), Fundamental Linear Algebra (2nd), Differential and Integral (2nd) Poundational subjects: Fundamental Mathematics (1st year), Fundamental Linear Algebra (2nd), Differential and Integral (2nd) Course Plan Theme Gais Course Plan Theme Gais 1st Guidance Definition and nature of probability 1 Understanding the basic formula of probability 2 1st Guidance Definition and nature of probability 2 Understanding Random Variables and Probability 3 1st Guidance Definition and property of probability 4 Understanding Random Variables and Probability 4 1st Random variables and probability distribution 1 Understanding the binomial distribution and property of probability 4 1st Random variables and probability distribution 2 Understanding the binomial distribution and property of probability distribution 2 2rd 9th Return and copparation of anyonery (probability distribution 2 Understanding requery distribution and property of probability distribution 2 2rd 10th Random variables and probability distribution 4 Understanding requery distribution 1 1st 2rd 10th Random variables and probabil			Precaution class hou	ons on enrollment urs missed) in ord	: Students mus er to complete t	t take this class he academic ye	s (no more than o ear.	ne-third of the	e required number of		
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Related subjects: Mathematics, physics, and other subjects after the third year Attendance advice : If you are late after, you may be treated as absent after a warning. Course Plan Add course Plan Relation and nature of probability distribution 2 Understanding the basist formula of probability <th< td=""><td colspan="3">Four</td><td colspan="8">ational subjects : Fundamental Mathematics (1st year), Fundamental Linear Algebra (2nd), Differential tegral I (2nd), Differential and Integral II (3rd)</td></th<>	Four			ational subjects : Fundamental Mathematics (1st year), Fundamental Linear Algebra (2nd), Differential tegral I (2nd), Differential and Integral II (3rd)							
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Cross Area Proficiency 0	0	0	0	0	0	0
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