

Toyama College		Year	2022	Course Title	Fundamental Mathematics A II
Course Information					
Course Code	0019		Course Category	General / Compulsory	
Class Format	Lecture		Credits	School Credit: 2	
Department	Department of Electronics and Computer Engineering		Student Grade	1st	
Term	Second Semester		Classes per Week	4	
Textbook and/or Teaching Materials					
Instructor	Sakurai Hideto,Fujii Senshu				
Course Objectives					
At the completion of this course, students will be able to 1) understand and carry out fundamental calculations on exponential functions correctly. 2) understand and carry out fundamental calculations on logarithmic functions correctly. 3) understand and carry out fundamental calculations on quadratic curves correctly.					
Rubric					
	Ideal Level		Standard Level		Unacceptable Level
Achievement 1	Clearly understands, and is able to carry out fundamental calculations on exponential functions.		Ability to understand and carry out fundamental calculations on exponential functions.		Does not display understanding and is unable to carry out fundamental calculations on exponential functions.
Achievement 2	Clearly understands, and is able to carry out fundamental calculations on logarithmic functions.		Ability to understand and carry out fundamental calculations on logarithmic functions.		Does not display understanding and is unable to carry out fundamental calculations on logarithmic functions.
Achievement 3	Clearly understands, and is able to carry out fundamental calculations on quadratic curves.		Ability to understand and carry out fundamental calculations on quadratic curves.		Does not display understanding and is unable to carry out fundamental calculations on quadratic curves.
Assigned Department Objectives					
ディプロマポリシー 3					
Teaching Method					
Outline	In this course, students will learn about basic mathematics, specifically: exponential functions, logarithmic functions, and quadratic curves. And, students will make basics calculations of them.				
Style	Lectures and exercises				
Notice	The recognition of credit requires 50 points or more rating.				
Characteristics of Class / Division in Learning					
<input type="checkbox"/> Active Learning		<input type="checkbox"/> Aided by ICT		<input checked="" type="checkbox"/> Applicable to Remote Class	<input type="checkbox"/> Instructor Professionally Experienced
Course Plan					
			Theme	Goals	
2nd Semester	3rd Quarter	1st	Guidance	Guidance: Discuss the goals and structure of this course.	
		2nd	Exponential function -1-	Learn the definition of the exponential function.	
		3rd	Exponential function -2-	Learn the basic property of the exponential function.	
		4th	Exponential function -3-	Learn the basic property of the exponential function.	
		5th	Logarithmic function -1-	Learn the definition of the logarithmic function.	
		6th	Logarithmic function -2-	Learn the basic property of the logarithmic function.	
		7th	Common logarithm	Learn the definition and the basic property of the common logarithm.	
		8th	Midterm exam	Midterm examination.	
	4th Quarter	9th	Point on a plane	Learn the internal section formula and the formula for the distance between two points.	
		10th	Line in a plane -1-	Learn the way to find the equation of a line satisfying a given condition.	
		11th	Line in a plane -2-	Learn the way to find parallel lines and perpendicular lines.	
		12th	Quadratic curve -1-	Learn the definition of the quadratic curve.	
		13th	Quadratic curve -2-	Learn the basic property of the quadratic curve.	
		14th	Inequality and Domain	Learn the domain and range of inequalities.	
		15th	Final exam	Final examination.	
		16th	Summary	Summarize the study content and confirm grades.	
Evaluation Method and Weight (%)					

	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal	70	0	0	0	0	30	100
Basic Proficiency	70	0	0	0	0	30	100
Specialized Proficiency	0	0	0	0	0	0	0
Cross Area Proficiency	0	0	0	0	0	0	0