Toyama College			Year	Year 2023			ourse Fundamental Mathematics itle B I						
Course	Informa	tion											
Course Code 0020					Course Category	Ge	General / Compulsory						
Class Format Lecture					Credits	Sc	chool Cre	dit: 1					
			nt of Maritime Technology		Student Grade	+							
Term					Classes per Wee	eek 2							
Textbook Teaching	Matérials			(dainihon-tosho)									
Instructor													
In learnin trigonome	Objectivos g natural etric funct		gineeeing knov cribed.	wledge of function	s will be needed.	In this l	ecture, c	quadratic functions and					
Rubric													
]	Ideal Level	Standard Level			Unacceptable Level						
Achievement 1			Students can translate the general forms of qusadratic functions into the sutandard forms of quadratic functions and draw the graph of quadratic function		Students can translate the general forms of qusadratic functions into the sutandard forms of quadratic functions		atic dard	Students can't translate the general forms of qusadratic functions into the sutandard forms of quadratic functions					
Achievement 2			Students can fi value and mini arbitrary quadr		Students can find the maximum value and the minimum value of quadratic functions that represented by standard forms			Students can't find the maximum value and the minimum value of quadratic functions that represented by standard forms					
Achievement 3			Students can s equations and nequalitis	love quadratic quadratic	Students can slove quadratic equations		ratic	Students can't slove quadratic equations					
Assigne	d Depar	tment Obje	ctives										
MCCコア科	— <u>——</u> 斗目		<u> </u>										
Teachin	g Metho	od											
Outline During class teacher will confirm comphrehension of students orally Give homework													
Style		Lectures an	d exercises by	the teacher alone	!								
Notice		Those who	do not have a	score of 50 can t	ake the certification	on test ι	ıpon reqi	uest					
Charact	eristics	of Class / Di	vision in Le	arning									
□ Active	Learning	[☐ Aided by IC	Т	☐ Applicable to	Applicable to Remote Class							
Course	Plan												
		The	eme		G	Goals							
1st Semeste r	1st Quarter		dance actions and the	eir graph		Students can understand the concept of function and their graph							
		2nd Gra	aph of the quadratic functions			Students can draw the graphs of quadratic functions given in stanard forms							
		3rd Gra	aph of the quadratic functions			Students can translate general forms of quadratic functions into standard forms of quadratic functions							
		4th Det	termination of		Students can find quadratic functions that saticefied given conditons								
		5th Ma	ximun and mir	c functions S	tudents can find the maxmun value and the ninimum value of quadratic functions								
		6th Ma:	ximun and min	nimum of quadrati			dents can find the maxmun value and the imum value of quadratic functions						
			sitional relation ctions and x o	ship of graph of q xis			dents can find out positional relation ship of dratic functions and x axis						
		8th Mic	l-term exam										
	2nd Quarter	9th Qua	adratic inequal	g	Students can slove quadratic inequalities using graph of quadratic functions								
		10th Var	rious functions	fı	Students can draw the graph of basic cube functions and quartic functions								
		11th Var	/arious functions			Students can find out whether given functions is even functions or odd functions							
		12th Var	rious functions		fı	unctions							
		13th Var	ious functions		fı	unctions	udents can obtain inverse functions of basic nctions						
			rious functions			Students can draw graph of basic irational functions							
		15th Fin	al exam										
		16th Var	rious functions	S	Students can find equations of functions translated giiven functions								

Evaluation Method and Weight (%)											
	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total				
Subtotal	83	0	0	0	17	0	100				
Basic Proficiency	83	0	0	0	17	0	100				
Specialized Proficiency	0	0	0	0	0	0	0				
Cross Area Proficiency	0	0	0	0	0	0	0				