Toyama College		Year	Year 2022		Course Title	Applied Navigation Mechanics I					
Course	Informa	tion									
Course Co	ode	0180			Course Category	/ Specializ	red / Elective				
Class Format Lecture					Credits	Academi	ic Credit: 1				
_ ·			nt of Maritime Technology		Student Grade	5th					
Term		First Seme	ester		Classes per Wee	ek 1					
Textbook Teaching	Matérials		mics learned fro	(Ohmsha)							
Instructo		Fukudome	Kenichi								
	Objectiv										
(1) Obta (2) Unde	in calculaterstand the	ed results of f e fundamenta	l equation of flu	o pressure and so							
Rubric											
			Ideal Level of Achievement Standard L			of Achievemen	Unacceptable Level of Achievement)				
Evaluation	n 1		Can obtain calculated results of fluid force due to pressure and so on correctly			f Can not obtain calculated					
Evaluation	n 2		Can understand the Can unders			the uation of fluid	Can not understand the fundamental equation of fluid dynamics				
Evaluation 3			Can explain the nature of the fluid correctly through the consideration above		n the	Can not understand the nature of the fluid through the consideration above					
Assiane	d Depar	tment Obje			,						
Outline	Teaching Method Outline Fluid dynamics is the academic expression of fluid motion and force by mathematical expressions. This cowill focus on hydro dynamics, with the aim of acquiring knowledge useful for practical purposes.										
Style		Lecture an					- Francisco Fari Forest				
Notice	oristics	up prograr are allowed on the con understand	questions at any time. Prepare a computer with trigonometric functions (sin, cos, tan), exponential function, ogarithmic function calculation function. Those whose evaluation is less than 60 points can receive a follow-up program by submitting the approval test application. As a result of the follow-up program, for those who are allowed to acquire credits, the score is 60 points. Please note that the tracking program differs depending on the content that was not approved. The lesson plans may be changed according to the degree of understanding of the student. Class / Division in Learning								
Charact	eristics	or Class / L		<u>-</u>	<u> </u>		Trackwictor Duefoccionally				
☐ Active Learning			☐ Aided by ICT ☐ Applicable to			o Remote Class					
Course	Plan										
		Th	neme		(Goals					
1st Semeste r	1st Quarter	1st G	uidance, Fluid (1)			To understand the concept of fluid dynamics and application in real world					
		2nd Fl	uid (2), Static hydro dynamics (1)			Can explain physical variables used in fluid mechanics etc. , static mechanics and Pascal's principle					
		3rd St	tatic hydro dynamics (2)			Can explain Hydro static equilibrium, Absolute pressure and gauge pressure, Can explain Measurement of pressure (1)					
		4th St	tatic hydro dynamics (3)			Can explain Measurement of pressure (2), Total pressure (1)					
		5th St				Can explain Total pressure (2)					
		6th St	tatic hydro dynamics (5)			Can explain Buoyancy, Can explain Fluid in the container under accelerating motion					
		7th St	tatic hydro dynamics (6) xplanation of report task ①			Can explain Fluid in the rotating container					
		8th In	·			Can understand the summary so far					
	2nd Quarter	9th Ar				Can explain Force acting on fluid, Terms of fluid dynamics					
		10th Ba	asic equation of now (2)			Can explain Continuous equation, Can explain Acceleration of fluid particle					
		11th Ba	asic equation of now (5)			Can explain Equation of motion, Can explain Bernoulli's theorem (1)					
		12th Ba	· · · · · · · · · · · · · · · · · · ·			Can explain Bernoulli's theorem (2)					
			· · · · · · · · · · · · · · · · · · ·			Can explain Application of Bernoulli's theorem					
			Basic equation of flow (6)			Can explain Equation of momentum					
		15th Fi	nal examination		[(Can understand the summary so far					

	16th	Grade evaluation and confirmation, class evaluation questionnaire									
Evaluation Method and Weight (%)											
	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Exercise	Total				
Subtotal	70	0	0	0	0	30	100				
Basic Ability	20	0	0	0	0	10	30				
Technical Ability	50	0	0	0	0	20	70				
Interdisciplinar y Ability	0	0	0	0	0	0	0				