Oyama College				Year 2022			C	Course Title	Building Mecha	anics		
Course Information		on										
Course Code 0087			0087				Course Category Spe		Specialize	cialized / Elective		
Class Format Lecture			Lecture				Credits Academi		Credit: 2			
Department Depar			Departm	ent o	of Architecture	e	Student Grade 5th		5th	ו		
Term First Se			mester			Classes per Week		2				
Textbook and/or Teaching Materials												
Instructor OHWA Seira												
Course	Objec	tive	S									
Rubric												
				Ideal Level			Standard Level			Unacceptable Level		
Achievement 1												
Achievement 2												
Achievem	ient 3											
Assigne	d Dep	artr	nent Ob	ject	tives							
学習・教育 JABEE (A	到達度)	目標(4									
Teachin	ig Met	hod	1									
Outline												
Style												
Notice												
Charact	eristic	s of	Class /	Div	<u>vision in Lea</u>	arning	1			1		
Active	Learnir	ng		□ Aided by ICT			□ Applicable to Remote Class		Instructor Professionally Experienced			
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Course	Plan											
	1st Quarter			Theme				Goals				
1st Semeste r		1	lst	Summarizing slope deflection methods				methods				
		2	2nd	Summarizing moment distribution me			methods	methods			distribution	
		3	Brd	omultaneous linear equations and stiffness matrix of truss			vector and stiffness matrix					
		er	łth	Stiffr	itiffness matrix of beams			matrix of beam parts			ns, stiffness	
		5	ōth	Stiffr	fness matrix of frameworks in plans			matrix and member stress				
		e	ōth	Elast	tic-plastic prop	rs	plastic section modules, strength in members			n members		
		7	7th	Ultin	nate lateral st	rength	methods and stre			ength frames.		
		8	3th	Midterm test			Realizing the 1st			- 7th classes		
		ç	9th	Free vibra	ree vibration in 1-quality system and damped ibration				Realizing the equation of vibration, attenuation constant, viscous damping vibration and logarithmic damping rate			
			l0th	Ener	gy response i	n free vibration		Realizing the response in equilibrium equation energy, the energy response undamped free vibration, energy response in damped free vibration			um equation of Imped free Iped free	
			l1th	Response in 1-quality system in seismic motion					Realizing vibration equation, 'resonance and resonance curve' and the energy response in seismic motion			
	2nd Quarte	r 1	L2th	Free shea	vibration in n Ir type	nulti-quality point	system for	Realizing mass matrix, eigenvalue and eigenvector			and	
			l3th	Seismic response in multi-quality point system shear type				Realizing ground motion acceleration, stimulation coefficient, mode synthesis and Seismic response				
		1	.4th	Seisr prop	mic response erties (part I	analysis in elastic)	-plastic Realizing the 1st analysis in elastic spectrum (part I		example seismic response plastic properties and response -)			
		1	15th	Seisr prop	mic response erties (part II	analysis in elastic)	-plastic	Realizing the 2st example seismic response analysis in elastic-plastic properties and response spectrum (part II)				
		1	6th	Regu	ular exams			Realizing the 1st - the 15th classes				
Evaluation Method and Weight (%)												
		Exan	nination	Pr	resentation	Mutual Evaluations between students	Behavior	Port	folio	Other	Total	
Subtotal		0		0		0	0	0		0	0	

Basic Proficiency	0	0	0	0	0	0	0
Specialized Proficiency	0	0	0	0	0	0	0
Cross Area Proficiency	0	0	0	0	0	0	0