Oyama College			lege	Year 2022					Manufacturing Engineering	Systems			
Course Information													
Course Code 0005			0005		Course Categor	ry	Specialized / Elective						
Class Format Lecture			Lecture		Credits		Academic Credit: 2						
		Advanced Engineerin	Course of Mechang	Student Grade		Adv. 1st							
Term Second			Second Se	emester	Classes per We	eek	2						
Textbook Teaching													
Instructor	Instructor KAWAMURA Takashi												
Course Objectives													
2. You ca	n under:	stan	d the conce	epť of optimizati	ering and gain a con design of produg, design develop	uction system ar	nd learr	n more app	lication examples	5.			
Rubric													
				Ideal Level	Standard Level			Unacceptable Le	vel				
Achievement 1				1. Learn produ engineering an understanding systems through	d gain á deeper of production	Learn production system engineering and understand production systems through exercises.		Learn production system engineering and cannot understand production system through exercises.					
Achievement 2				2. Understand optimized designsystems, and it application exa		. Understand the concept of ptimized design of production ystem.			stand the nized design of em.				
Achievement 3				3. Understand production plan development, devaluation, etc.	3. Understand production plan development, cevaluation, etc.	nning, c operatio	design,	3. I can't unders concept of produ design, developr evaluation, etc.					
Assigne	d Depa	artn	nent Obj	ectives									
学習・教育													
			.) JABEE (g)									
Teachin	ig Metr	<u>10d</u>	I			. 6:1							
Outline In this class, you will learn about the contents of the production system, which is important for production activities in factories. In addition, the content will utilize the practical experience of the faculty members who were in charge of production technology at the LSI manufacturing factory.													
Style			Lectures,	reports (timely), regular exams									
Notice Only scientific calculators can be brought in for the test. Textbooks, reference books, notebooks, memos, etc. cannot be bro							ought in.						
Charact	eristic	s of	Class / [Division in Le	arning								
☐ Active Learning				☐ Aided by IC	☐ Applicable to Remote Class ☐ Instructor Professional Experienced			ofessionally					
	D.												
Course	Plan												
	3rd Quarter			heme		Goals							
				roduction systen		Understand production system engineering							
					uction schedule, Johnson method tching rules, Gantt charts			Understand Capit sharts ats					
						Understand Gantt charts, etc.							
2nd Semeste r				roduction foreca		Understand production forecasts, etc.							
				Production forecast, input-output analysis System planning, pre-evaluation, manufacturing				Understand input-output analysis, etc.					
		6		system planning, pre-evaluation, manufacturing control				Understand system planning, etc.					
		7		Meeting theory, input-output analysis, quality control				Understand quality control, etc.					
		8		Meeting theory, production forecasting, game theory				Understand meeting theory, etc.					
	4th Quarter	9		Production planning, game theory, mixed strategy, Nash equilibrium				Understand production planning, etc.					
		1	.0th Pi	Production planning, production control system				Understand the production control system, etc.					
		1	.1th O	Optimal process planning, process control, QCD				Understand the optimal process plan, etc.					
		_ 1	.2th R	Reliability design, process control, 5S			Understand reliability design, etc.						
		1	.3th M	Manufacturing lead time, QC activities				Understand manufacturing lead time, etc.					
		1	.4th S	Seven tools for QC activities and new QC				Understand QC activities, etc.					
		1	.5th Fi	Final exam									
		1	.6th										
Evaluation Method and Weight (%)													
	E	Exan	nination	Presentation	Mutual Evaluations between students	Behavior	Portfo	olio	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