Akashi College		ollege	Year 2023			Course Title			Production Engineering					
Course	Informa	tion												
Course Co		5518				Course Category Specializ		Specializ	zed / Elective					
Class Forr						Credits		School C	Credit: 1					
Departme	ent	Mechanical Engineering				Student Grade 5th								
Term		First Sen	nester			Classes per We	eek	2						
Textbook Teaching														
Instructor	-	KIMURA Masaaki												
Course	Objectiv	es												
Learn and (1) Produ (2) Analys (3) Basic (4) Under	l understa ction cont sis of quali knowledge	nd the follow rol and qual ty data using and intelle	lity control ng statistical p ectual propert	oroc y ri	fundamentals relates ressing methods ghts necessary for ng recycling and IS	plant operation	ment.							
Rubric						1								
			Ideal Level			Standard Level			Unacceptable Level					
Achievem	Achievement 1			Understand production control and quality control sufficiently.				nd quality on control	Do not understand production control and quality control.					
Achievem	ent 2		quality data	Fully understand analysis of quality data for production control and quality control.				of quality ontrol and	Do not understand analysis of quality data for production control and quality control.					
Achievem	ent 3		Fully under knowledge operation, right, produ	Fully understand the basic knowledge necessary for plant operation, intellectual property right, production control and			e basic essary llectua on con	for plant property trol and	Do not understand the basic knowledge necessary for plant operation, intellectual property right, production control and quality control.					
			issues inclu	Fully understand environmental issues including recycling, and ISO production and quality			quality control. Understand environmental issues including recycling, and ISO production and quality control.		Do not understand environmental issues including recycling, and ISO production and quality control.					
Assigne	d Depar	tment Ob	jectives											
Teachin	g Metho	d												
Outline production wide ran which will ideas by			ourse will outline basic production and quality control technologies for engineers involved in on activities, and the statistical processing methods necessary to achieve them. Also, it will explain a age of topics from environmental issues to ISO, including intellectual property rights and recycling, ill be important in plant management in the current century, and acquire the basis of a wider range of deepening understanding of these issues. will be held in a lecture style, and there will be exercises and assignments.											
Style		Taught b	y: Masaaki Kimura (Liaison: Takahiro Kato) aking the course, read the text, familiarize yourself with the content, and be prepared to ask soluring the course.											
Notice		Students	who miss 1/3	3 o	more of classes v	vill not be eligibl	e for e	evaluation	•					
Cnaract	eristics (or Class /	Division in	LE	earning	1								
☐ Active Learning			☐ Aided by ICT			☐ Applicable to Remote Class			☐ Instructor Professionally Experienced					
Course	Dlan													
Course	r Ial I	1.	Theme				Goals							
1st Semeste r		1ct			nificance of produ	ction control Learn about the b			e basics and significance of					
	1st Quarter	2nd	Production an	oduction and quality I story, production control and qua			production control and quality control. Learn about the history of production control cycle of production control and quality control and control.							
		2rd	Production an	roduction and quality II C 7 tools and New QC 7 tools					QC seven tools and the New QC					
		4th	Statistical pro	ces	-	ıs narts			basics, terminology, and various					
		5th	Statistical pro	ces	sing II		Learn about testing and estimation, and scatter diagram.							
		6th	Statistical pro Control charts	esting and estimation, and scatter dia tatistical processing III ontrol charts, inspection methods, dis nalysis, and the basis of design of ex				Statistical processing III Learn about the basics of control charts, nspection methods, dispersion analysis, and design of experiments.						
		7th		dar	n I nentals, work man ransport managem		Learn about the basics of the company, w management, equipment and transport management.		e basics of the company, work					
			Midterm exan				ппападетнени.							
	2nd Quarter	9th	Factory opera Plant account	itioi ina	Basic, break-even, purchasing le			Factory operation II Learn about factory accounting basics, break- even points, purchasing management, and depreciation.						

			Factory operation Personnel manage		y management	Learn about personnel management, and safety management.				
11tl		11th	Intellectual proper Intellectual proper rights, patents, et	ty rights, industr	ial property	Learn about intellectual property rights, industrial property rights, patents, etc.				
12th Ir			Intellectual proper Product Liability A	ty rights, etc. II ct, and TPM		Learn about the Product Liability Act and TPM.				
			Intellectual proper ISO, and recycling	ty rights, etc. III I		Learn about ISO and recycling.				
	14th Pr			e cause and effec	ct diagram I	Learn about cause and effect diagram.				
		15th	Presentation of th	e cause and effec	ct diagram I	Learn about cause and effect diagram.				
	16th Final e		Final exam							
Evaluation Method and Weight (%)										
		Examination	Exercises	Attendance · Learning situation	Behavior	Portfolio	Other	Total		
Subtotal		35	35	30	0	0	0	100		
Basic Proficiency		0	0	0	0	0	0	0		
Specialized Proficiency		35	35	30	0	0	0	100		
Cross Area Proficiency		0	0	0	0	0	0	0		