Tsuyama College		Year	Year 2021		(Course Title	Advan Engine	ced Communication eering			
Course	Informa	tion									
Course Co	ode	0122			Course Cate	gory	Specializ	ed / Elec	tive		
Class Format		Lecture	Lecture			Credits		Academic Credit: 2			
Department		Technolog	nt of Integrated y Communications System Prog	n and	Student Grade		5th				
Term			Year-round			Classes per Week 1		1			
Textbook Teaching		Required I	Materials : "Hoki	Ichi Rikutoku • N		Rikutoku · Kokunai Denshinyo" (Denkisinkokai)					
Instructor	-	SHIMADA	Takao								
Course	Objectiv	es									
1.To be a	purposes : ble to exp ble to exp	lain the princ	iple of Radio Act guration and pri	nciple of wireless	s communicatio	on equip	ment.				
Rubric											
		Excell	ent	Good		Accepta	able		Not acceptable		
Achievement 1		of the	of the Radio		s the principle Act and is lain it.	Is able to explain the outline of the principle of the Radio Act.			The required standard has not been reached.		
Achievement 2		explai of wir the ra Grour	Is able to accurately explain the configuration		Is able to explain the configuration of wireless devices within the range of On-The-Ground Second-Class Special Radio Operator		Can outline the configuration for wireless devices within the range of On-The-Ground Second-Class Special Radio Operator		The required standard has not been reached.		
Assigne	d Depar	tment Obj	ectives			•					
	g Metho										
· caciiii	9 1 100110		Specialized : Sp	ecialized							
			Gneral or Specialized : Specialized								
			Field of learning: Electrical and Electronic Engineering								
Outline		Foundational academic disciplines: Engineering / Electrical and electronic engineering / Communication engineering									
		Relationship with Educational Objectives: This class is equivalent to "(3) Acquire deep foundation of the major subject area".									
		_	Course outline: In this course, we will mainly learn about wireless communication technology and Radio Act. "Course method: Mainly, board-writing is used. Sometimes, practices regarding the foundation will be held.								
Style		Exams (80 Regular ex	Grade evaluation method: Exams (80%) + Reports (20%). Regular examinations will be conducted a total of 2 times, and the evaluation ratios will be the same. As a general rule, we do not allow test.								
		Students r to complet of study is of the inst Course ad Since ther	Precautions on the enrollment: Students must take this class (no more than one-third of the required number of class hours missed) in order to complete the 5th year course. This is a class that requires study outside of class hours. A total of 45 hours of study is required per credit, including both class time and study outside class time. Follow the instructions of the instructor regarding study outside of class hours. Course advice: Since there are many technical terms, it is not necessary to memorize them but to understand their meanings and definitions.								
Notice		Electric Cir	Foundational subjects: Electric Circuits I (3rd year), Electronic Circuits I (3th), Electric Circuits II (4th), Electronagnetism II (4th)								
		If you are count as o	not understand to not present at to ne absence.	the content of the he time of the at submitted on time	tendance chec	k, you w	vill be cour		ardy, and three tardies will		
Charact	eristics /				Jabiiii3310113	1100	. se accept	ca arter	due dutei		
☐ Active			Class / Division in Learning			☑ Applicable to Ren			structor Professionally ienced		
<u>Elec</u> t	ive m	nust co	mplete s	ubjects							
Course	Plan	·									
		Т	Theme			Goals	Goals				
2nd Semeste r	3rd Quarter	1st G		nce, Basic properties of electr		Principle of electromag		tromagn	etic wave		
		2nd El	ectromagnetic v	ctromagnetic waves and radio w		aves Various radi) waves			
		3rd B	asic theory of antenna 1			Basic antenna					
		4th B	asic theory of ar		Gain,	Gain, Effective length					
		5th V	arious antennas		Bacic	Basic principle of various antennas					
				The state of the s		Dasic	principie (<u> </u>	3 411(6111143		

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	7th	Radio Act(Radio Equi	pment)			
	8th	2nd semester mid-te	rm exam			
4th Quarter	9th	Return and comment	cary of exam answers			
	10th	Amplitude modulation	n transmitter / receiver	Amplitude modulation transmitter / receiver configuration		
	11th	Frequency modulatio	n transmitter / receiver	Frequency modulation transmitter / receiver configuration		
	12th	Radar, satellite comn	nunication equipment	Basic principle of radar		
	13th	Radio Act(Radio Oper	rators, Operation)			
	14th	Radio Act(Supervision	n, Penal Provisions)			
	15th	2nd semester final ex	kam			
	16th	Return and comment	cary of exam answers			
ion Meth	nod and	Weight (%)				
		Examination	Report	Total		
		80	20	100		
ficiency		0	0	0		
ed Proficie	ncy	80	20	100		
ea Proficier	ncy	0	0	0		
	Quarter ion Meth	9th 10th 4th Quarter 12th 13th 14th 15th 16th ion Method and	8th 2nd semester mid-te 9th Return and comment 10th Amplitude modulatio 11th Frequency modulatio 12th Radar, satellite comm 13th Radio Act(Radio Oper 14th Radio Act(Supervisio 15th 2nd semester final ex 16th Return and comment ion Method and Weight (%) Examination 80 ficiency ed Proficiency 80	8th 2nd semester mid-term exam 9th Return and commentary of exam answers 10th Amplitude modulation transmitter / receiver 11th Frequency modulation transmitter / receiver 12th Radar, satellite communication equipment 13th Radio Act(Radio Operators, Operation) 14th Radio Act(Supervision, Penal Provisions) 15th 2nd semester final exam 16th Return and commentary of exam answers ion Method and Weight (%) Examination Report 80 20 ficiency 0 0 ed Proficiency 80 20		