Tsuyama College			Year 2020				Course Title	Communication Engineering			
Course	Informat	tion									
Course Code 0147					Course Cate	gory	Specializ	ed / Elec	tive		
Class Forr	mat	Lecture			Credits		Academi	ic Credit:	2		
Department Techi		Technolog	nt of Integrated y Communications System Prog	Student Gra	Student Grade		5th				
Term Year-ro			d	Classes per	Week 1						
Textbook Teaching			points will be dis	stributed.							
Instructor	-	SHIMADA	Takao								
Course	Objectiv	es									
Learning	purposes:	To understa	nd the basic com	nmunication t	echnologies used	in comn	nunication	systems	such as telephones.		
2.To unde	erstand the erstand the	e principle of	the modulation the multiplexing the coaxial cable	a method.	fiber.						
Rubric											
		Excel	Excellent		Good		Acceptable		Not acceptable		
Achievement 1		of the meth	mothed and he able to the principle		and and explain ciples of tion methods.	of the metho	An outline of the principle of the modulation method can be explained.		Not reach the left		
Achievem	ent 2	of the meth	rstand the princi multiplexing od and be able t in it accurately.	the prin	and and explain ciples of exing methods.	, or the multiplexing		principle g	Not reach the left		
Achievement 3		princi cable and b	rstand the basic ples of coaxial s and optical fibe e able to explair accurately.	principle cables a	and the basic es of coaxial and optical fibers, able to explain.	coaxial ptical fibers,			Not reach the left		
Assiane	d Depart	ment Obj	ectives								
	g Metho										
reachin	grieeno		Specialized : Spe	ecialized							
		Field of le	Field of learning : Electrical and Electronic Engineering								
		Required, Elective, etc. : Elective subjects									
Outline		Foundational academic disciplines : Engineering / Electrical and Electronic Engineering / Commun Engineering							ng / Communication		
		Relationship with Educational Objectives : This class is equivalent to "(3) Acquire deep foundation knowled of the major subject area".									
		devices su	Course outline : Learn the basics about modulation, a communication technology that is used around us in devices such as telephones.								
		Course m	ethod : Mainly, t	board-writing	is used. Sometim	es, prac	tices regar	ding the	foundation will be held.		
Style		Exams (80 Examinati	Grade evaluation method : Exams (80%) + Reports (20%). Examinations will be conducted 2 times, and the evaluation ratios will be the same. As a general rule, we do not allow re-examination.								
		of class ho	Precautions on the enrollment : Students must take this class (no more than one-fifth of the required number of class hours missed) and earn the credit in order to complete the 5th year course. This is a "class that requires study outside of class hours". Classes are offered for 15 hours per credit, but 30 credit hours are required in addition to this. Follow the instructions of your instructor for these studies.								
Notice		Electronic	Foundational subjects : Electric Circuits I (3rd year), Electronic Circuits I (3rd), Electric Circuits II (4th), Electronic Circuits II (4th) Related subjects : Electric and Electronic System Engineering Experiments(4th year)								
		riciacea se	5								
				u do not unde	erstand the conten	t of the	class, ask t	the teach	ner.		
Course	Plan			ı do not unde	erstand the conten	t of the	class, ask	the teach	ner.		
Course	Plan	Attendanc	e advice : If you	u do not unde	erstand the conten	t of the	•	the teach	er.		
Course	Plan	Attendanc	e advice : If you			Goal	s				
Course	Plan	Attendanc T 1st G	heme uidance, Overvie	ew of commu		Goal Ove	s	ommunica	er. ation system		
Course	Plan	Attendanc T 1st G 2nd A	heme uidance, Overvie nalog modulatio	ew of commu n 1		Goal Ove Amp	s rview of co litude mod	ommunica	ation system		
		Attendance T 1st G 2nd A 3rd A	heme heme uidance, Overvie nalog modulatio nalog modulatio	ew of commu n 1 n 2		Goal Ove Amp Freq	s rview of cc litude mod uency mod	ommunica ulation lulation, l	ation system Phase modulation		
<u>Course</u> 2nd Semeste	3rd	Attendance T 1st G 2nd A 3rd A 4th D	heme uidance, Overvie nalog modulatio nalog modulatio igital modulatior	ew of commu n 1 n 2 n 1		Goal Ove Amp Freq Amp	s rview of cc litude mod uency mod litude shift	ommunica ulation lulation, l keying, l	ation system		
		Attendance T 1st G 2nd A 3rd A 4th D 5th D	heme heme uidance, Overvie nalog modulatio nalog modulatio	ew of commu n 1 n 2 n 1 n 2		Goal Ove Amp Freq Amp Phas	s rview of cc litude mod uency mod litude shift se shift key	ommunica ulation lulation, l keying, l ing	ation system Phase modulation Frequency shift keying		
2nd	3rd	Attendance T 1st G 2nd A 3rd A 4th D 5th D 6th P	heme uidance, Overvie nalog modulatio nalog modulatio igital modulatior igital modulatior	ew of commu n 1 n 2 n 1 n 2 ation 1		Goal Ove Amp Freq Amp Phas Princ	s Inview of co litude mod uency mod litude shift se shift key ciple of puls ciple of puls	ommunica ulation lulation, l keying, l ing se code n	ation system Phase modulation		

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		9th	Return and comm	entary of exam	answers					
	4th Quarter	10th	Multiplexing 1			Frequency division multiplexing, Time division multiplexing				
		11th	Multiplexing 2			Code division	Code division multiplexing			
		12th	Coaxial cable			Propagation p	Propagation principle, Characteristic impedance			
		13th	Optical fiber 1			Propagation p	Propagation principle			
		14th	Optical fiber 2			Maximum ligh	Maximum light receiving angle			
		15th	2nd semester fina	al exam						
		16th	Return and comm	entary of exam	answers					
Evaluat	ion Me	thod and	Weight (%)							
	E	Examination	Presentation	Mutual Evaluations between students	Behavior	Report	Other	Total		
Subtotal 80		30	0	0	0	20	0	100		
Basic Proficiency)	0	0	0	0	0	0		
Specialized Proficiency 80		0	0	0	20	0	100			
Cross Area Proficiency 0) 0		0	0	0	0	0		