Ovama Callaga			Year 2022			Cou	rse	Cianal Draceasina	
Oyama College Course Information			Year 2022				le	Signal Processing	
					Causa Catago	C		d / Elective	
Course Code 0107 Class Format Lecture					Course Catego Credits	Academic		· · · · · · · · · · · · · · · · · · ·	
Department Departme		ent of Innovative Electrical and		Student Grade					
Term First Seme					Classes per We				
Textbook		Handouts	Ster Clusses per			JON 12			
Teaching Instructor		HIRATA K	atoumi						
	Objectiv		atSum						
1. To find 2. To exp	the freque	ency respons	em and aliasing	n the impulse res	sponse for basic li series.	near shift-	invaria	nt systems.	
Rubric			1						
4.0.11.1.0.11.1.0			Ideal Level		Standard Level			Unacceptable Level	
<ol> <li>Be able to find the frequency response functions from the impulse response for basic linear shift-invariant systems. (Evaluated using assignments and exams)</li> </ol>			Very correctly		Almost correctly with few		v errors	Never or with many errors	
2. Be able to explain the sampling theorem and aliasing. (Evaluated using assignments and exams)			Very correctly		Almost correctly with		v errors	Never or with many errors	
3. Be able to find the discrete Fourier transforms for fundamental time series.(Evaluated using assignments and exams)			Very correctly		Almost correctly with few erro		v errors	Never or with many errors	
		tment Obj	ectives						
学習・教育 JABEE (A)	到達度目標 ) JABEE (d	₹ ④ -1) JABEE (g	)						
	g Metho		,						
Outline		This cours which are Keywords	e deals with the essential on dig signal, linear s	e basic concepts gital signal proces shift-invariant sys	and principles of ssing. stem, Fourier tran	sampling, spe	frequer ectrum,	ncy analyzing, and linear system  DFT	
Style		This cours	e consists of le	ctures and exerci	ses.				
Notice		Students h	nave to submit	report for each a	ssignment writter			lethod, Course Plan by designated	
Charact	orieties	•		•	d to be submitted	to pass th	nis cour	se.	
		DI Class / L	Division in Le					☐ Instructor Professionally	
☐ Active Learning			☑ Aided by ICT ☑ Applicab		☑ Applicable t	o Remote	Class	Experienced	
Course	Dlan								
Course	Piali	Т	heme		Goals				
			rientation			To understand the outline, the style, notices, and contents of this course.			
1st Semeste r	1st Quarter	2nd A	ignal and Systems <1> ssignment: Summarize the contents of the esignated part of the handout in a page of A4 neet.			To find fundamental solutions for problems about representation of discrete time signals.			
		3rd A	ignal and Systems <2> ssignment: Summarize the contents of the esignated part of the handout in a page of A4 neet.			To find fundamental solutions for problems about operations of discrete time signals.			
		4th A	gnal and Systems <3> ssignment: Summarize the contents of the esignated part of the handout in a page of A4 neet.			To find fundamental solutions for problems about operations of discrete time signals.			
		5th A	ourier Analysis <1> ssignment: Summarize the contents of the esignated part of the handout in a page of A4 neet.			To find fundamental solutions for problems about frequency domain representation of discrete time signals.			
		6th A	ourier Analysis <2> ssignment: Summarize the contents of the esignated part of the handout in a page of A4 neet.			To find fundamental solutions for problems about discrete time Fourire transform.			
		7th A	social controls are social soc			To find fundamental solutions for problems about discrete time Fourire transform.			

		8th	Midterm exam Assignment: Review t exam.	he contents for midterm			
	2nd Quarter	9th	中間試験の解説、Samp Assignment: Summar designated part of the sheet.	oling <1> ize the contents of the c handout in a page of A4	To find fundamental solutions for problems about signal sampling.		
		10th	Sampling <2> Assignment: Summar designated part of the sheet.	ize the contents of the handout in a page of A4	To find fundamental solutions for problems about quantization and conversion of sampling rate.		
		11th	Sampling <3> Assignment: Summar designated part of the sheet.	ize the contents of the handout in a page of A4	To find fundamental solutions for problems about quantization and conversion of sampling rate.		
		12th	The DFT <1> Assignment: Summar designated part of the sheet.	ize the contents of the handout in a page of A4	To find fundamental solutions for problems about the principle of DFT.		
		13th	The DFT <2> Assignment: Summar designated part of the sheet.	ize the contents of the handout in a page of A4	To find fundamental solutions for problems about properties of DFT.		
		14th		ize the contents of the handout in a page of A4	To find fundamental solutions for problems about properties of DFT.		
		15th	(Final exam)				
		16th	Review of the final ex Assignment: Summar processing applied tec	am ize a digital signal chnology in 2000 character	To explain a digital signal processing applied technology.		
Evaluati	on Meth	od ar	nd Weight (%)				
			Mid-term exam	Final exam	Report	Total	
Subtotal			30	30	40	100	
基礎的能力			0	0	0	0	
専門的能力			30	30	40	100	
分野横断的能力			0	0	0	0	