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1975				Cours	e Syllabu	is Form			Revision Dat Revision No	te -				
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Name:	172210	UINIERP	KETATION U	r kesul		ULLEAK	DEIEC	11010 515	I EM3					
Unit: G	raduat	e School o	f Natural and	Applied	Sciences				_					
Detail:	Period:	2023-2024	Status: Opt	tional (Class: 1	Credits:	3-0-0-3	ECTS: 6	Language	: Turkisł	1			
]	INSTRUCTO	R				(Course As	SİSTANT					
Title, Name and	l Surnam	e:				ſitle, Name	and Surna	me:						
	Phon	e:					Pho	one:						
Socia	al Accoun	n: it: -				S	ocial Accor							
Student Day	and Tim	e:				Student I	Day and Ti	me:						
Lessons	Mon	ndav	Tuesdav	Wedı	nesdav	Thu	sdav	Frid	av	Satu	rdav			
Weekly														
Program:					-									
Rendering:	Face-to-	-face lessons	per week 3 It v	vill be done	on an hour	ly basis.								
Place:	YY: -				UE:	-								
-	The aim of this course is to provide students with the necessary skills to understand experimental errors learn statistical													
Purpose:	analysis t	techniques, ai	nd interpret experi	mental data	a correctly.	j		P						
	1. Data	Reduction an	<mark>d Error Analysis fo</mark>	r the Physic	cal Sciences	s. Philip R. B	evington v	ve D. Keith Ro	binson					
Material:	2. Statisti	ical Methods	. Prof. Enis Sınıks	aran, MD										
	3. Benzet	im ve Modell	eme. Prof. Dr. Filiz	Ersoz										
Student Responsibility	Attendin	a classes sub	mitting assignmen	ts on time	and taking	avame								
i :	Attenum	ig classes, suc	anitung assignmen	us on thire,	anu taking	exams.								
	Week	Tonic									Method			
	WeekTo1Ex2Er3Ra	Experiment	al Errors								YY			
	2	Error Predictions							YY					
	3	Random and Systematic Errors								YY				
	4	Mean, Standard Deviation and Gaussian Distributions								YY YY				
Weekly Lesson	6	Combination of Errors in Linear and Nonlinear Situations								YY				
Plan	7	Characterizing the Data Statistical Models and Applications									YY			
	8	Optimizations in Counting Systems							YY YY					
	10	Time Change Distributions and Probability Rules								YY				
	11	Binomial, Poisson, Gaussian Distributions							YY					
	12	Using Error Matrices and Fitting Parameters							YY VV					
	14	Monte Carlo	Calculations and C	Curve Fitting	g to Experi	mental Data	1				YY			
			Method							Number	Weight			
Assessment and Evaluation		Exam	Face							1	% 50			
	Break	Quiz	-							-	-			
	Exam	Homework								-				
Lvuluution		Project								-				
	General	Face									% 5			
	Exam	Tucc								1	0			
	1	Students v	vill gain the skills to	o understan	nd and anal	yze arbitrar	y and syst	ematic errors	s encountere	ed in expe	erimental			
		studies. kt	ir. I Thoy will goin l	mowlodge	on how to	ombino orr	ore in inor	t and nonline	or cituation	s and ont	timization			
C	2	techniques i	n counting system:	S.		Junionie en	ors in mer			is and opt	IIIIIZation			
Outcomes:	3	Students b	ability to unders	tand variou	ıs probabili	ty distribut	ions such a	as inom, Pois	son, and Gau	issian an	d to use			
outcomesi	<u> </u>	these distrib	utions in practical vill be able to work	application	is will wi	n. nnlex syster	ns Simu	lation Tech	niques W	ill he ahle	e to use			
	4	is .		in the mou		inpica system	ing onnu		inques w					
	5	Students v	vill gain the ability	to fit curves	s to experin	nental data	and to per	form hypothe	esis tests on	these da	ta is .			
Course-Specifi	c Explar	nations:												
UE: Distance E	ducation	; YY: Face-t	o-Face Education	l										
Click or tap h	nere to e	nter text.												

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