		_		Fn	T.C. RAT UNIVER	SITY			Document N Publication Revision Da	No E.C Date 13 te -	тм – 0001 .09.2021	
. 1975				Cours	e Syllabı	is Form			Revision No	0		
Code and Name: F	iz566	O RELATIV	VITY THEC	DRY								
Unit: G	raduate S	chool of Natu	ral and Applie	d Sciences								
Detail:	Period: 2	2023-2024	Status:	Optional	Class: 1	Credits:	3003	ECTS: 6	Language	: Turkish		
		INSTRUCTO	R		1		C	OURSE AS	SİSTANT			
Title, Name and	d Surnam	e: -				Γitle, Name a	and Surnam	ne:				
	Phon	e: -					Phon	ne:				
Co ei	Ema	il: -				C.	Ema	uil:				
Student Day	al Account and Tim	e: -				Student D	av and Tim	nt:				
Lassons	Mor	day	Tuesday	Wod	nosdav	Thur	sday	Frida	02	Satu	rdav	
Weekly	MON	luuy	Tuesuuy	weu	nesuuy	Inur	suuy	mu	9	Sutur	uuy	
Program:					-							
Rondorina												
Place:	YY: F	ace-to-face			UE:							
Durnosa	Principles of relativity. Einstein's kinematics. Basic properties of special relativity											
Turpose.	Thicipie	s of relativity	, LIIIStelli S Kill	ematics, basic j	bioperties	or special rea	ativity					
Material:												
Student Responsibility												
kesponsibility :												
	Week	Tonic									Method	
Weekly Lesson Plan	1	Newtoniar	motion law	s Galileo transf	formations						VV	
	2	Newtonianz relativity. Lorentz ether theory								YY		
	3	Principles	of relativity, Ei	instein's kinem	atics, Basic	properties o	f special re	lativity			YY	
	4	Lorentz transformation and its properties									YY	
	5	Einstein optics, drag effect, Doppler effect, Space-time and quadruple vector, Quadruple tensors										
	6	Three-dimensional Minkowski diagram, Relativistic particle mechanics										
	7	Validity of Newton's laws										
	8	VISA Maga of relative inertia										
	9	Mass of relative inertia Y										
	10	Quadruple vector formulation of relativistic mechanics Equivalence of mass and energy Do Brachie waves										
	11	Photons and the Compton effect. Relativity and electrodynamics										
	13	Curved surfaces. Rieman surfaces. General plan of relativity. Gravitational doppler effect								VY		
	14	Field equations in the presence of vacuum and matter in general relativity, Cosmology, Cosmic dynamics										
		in general relativity.								ŶŶ		
			Method							Number	Weight	
Assessment and Evaluation		Exam	Face							1	% 50	
	Break	Quiz	-							-		
	Exam	Project									_	
		110,000										
	General	Face								1	% 5	
	Exam									1	0	
Course	1											
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Outcomes:	3											
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Lourse-Specifi	ducation	IAUONS:	-Face Educa	tion								
of Distance E	aucation	, II. Pace-u	Frace Luurd	1011								

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