				T.C. Firat Univers	10102			дтм – 0001 3.09.2021
	1			Course Syllabu			Revision Date -	
Code and					5 T OT M		Revision No 0	
Name: FI	Z5730) THEORE	ETICAL ATOM	IIC PHYSICS				
			iral and Applied Sc					
Detail: P	eriod: 2	2023-2024	Status: Opt	tional Class: 1	Credits: 3-0-0-3	ECTS: 6	Language: Turkish	1
		ÍNSTRUCTO	R			Course Ass	İSTANT	
Title, Name and					Fitle, Name and Surnar			
	Phone Emai				Pho	- 0		
Socia	l Account				Social Accou			
Student Day	and Time	e: -			Student Day and Tir			
Lessons	Mon	day	Tuesday	Wednesday	Thursday	Frida	y Satu	rday
Weekly								
Program:				-				
Rendering:	Face-to-	-face lessons	s per week 3 I	<mark>t will be done on an </mark> l	ourly basis.			
Place:	YY: -			UE:	-			
Purpose:	To have	e knowledge	of theoretical ato	omic physics				
Material:				n and Molecular F	Physics, 1999			
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Student Responsibility H	Prenarat	ion before a	nd after class					
:	repurut		ind ditter cluss					
	Week	Topic						Metho
	1	-	ture of Matter, Blac	ck Body Radiation				YY
	2	Photolelectric Event Compton Event, Nucleated Atom					YY	
	3				ern- Gelach Experim	ent, Angular	Momentum ve	YY
Weekly Lesson Plan		Spin						11
	4	Also Broglie The Hypothesis and the Birth of Wave Mechanics, Waves and Particles, Wave Packets and Schrödinger's Equation						
	5	Single Electron Atom and Schrödinger's Equation,						YY
	6	Atomic Orbitals and Atomic Quantum Numbers						YY
	7	Spin Motion, Spin-Orbital Interactions						
	0	l	ni, opin orbitar ma	cractions				YY
	8		ture, Extreme Fine					YY
	9	MIDTERM	ture, Extreme Fine EXAM	Structure				YY YY
	9 10	MIDTERM Multielectr	ture, Extreme Fine EXAM ron Atoms and Sch	Structure rödinger's Equation				YY YY YY
	9 10 11	MIDTERM Multielectr Independe	ture, Extreme Fine EXAM ron Atoms and Sch ent Particle Model a	Structure				YY YY YY YY
	9 10 11 12	MIDTERM Multielectr Independe Central Fie	ture, Extreme Fine EXAM ron Atoms and Sch ent Particle Model a eld Approach	Structure rödinger's Equation and Variation Methods		amon and th	o Stavk Effort	YY YY YY YY YY YY
	9 10 11 12 13	MIDTERM Multielectr Independe Central Fie Interactior	ture, Extreme Fine EXAM ron Atoms and Sch ent Particle Model a eld Approach n of Atoms with Ext	Structure rödinger's Equation and Variation Methods ternal Electric Field an	d Magnetic Field; Ze	eman and th	e Stark Effect	YY YY YY YY YY YY
	9 10 11 12	MIDTERM Multielectr Independe Central Fie Interactior	ture, Extreme Fine EXAM ron Atoms and Sch ent Particle Model a eld Approach n of Atoms with Ext les and Atomic Ter	Structure rödinger's Equation and Variation Methods ternal Electric Field an		eman and th		YY YY YY YY YY YY YY
	9 10 11 12 13	MIDTERM Multielectr Independe Central Fie Interactior	ture, Extreme Fine EXAM ron Atoms and Sch ent Particle Model a eld Approach n of Atoms with Ext	Structure rödinger's Equation and Variation Methods ternal Electric Field an		eman and th		YY YY YY YY YY YY
	9 10 11 12 13 14	MIDTERM Multielectr Independe Central Fie Interactior Hunt Ru	ture, Extreme Fine EXAM ron Atoms and Sch ent Particle Model a eld Approach n of Atoms with Ext les and Atomic Ter Method	Structure rödinger's Equation and Variation Methods ternal Electric Field an		eman and th	Number	YY YY YY YY YY YY Weight
Assessment and	9 10 11 12 13 14 Break	MIDTERM Multielectr Independe Central Fie Interaction Hunt Rul	ture, Extreme Fine EXAM ron Atoms and Sch ent Particle Model a eld Approach n of Atoms with Ext les and Atomic Ter Method	Structure rödinger's Equation and Variation Methods ternal Electric Field an		eman and th	Number	YY YY YY YY YY YY Weight
Assessment and Evaluation	9 10 11 12 13 14	MIDTERM Multielectr Independe Central Fie Interactior Hunt Rul Exam Quiz	ture, Extreme Fine EXAM ron Atoms and Sch ent Particle Model a eld Approach n of Atoms with Ext les and Atomic Ter Method Face	Structure rödinger's Equation and Variation Methods ternal Electric Field an		eman and th	Number	YY YY YY YY YY YY Weight
	9 10 11 12 13 14 Break Exam	MIDTERM Multielectr Independe Central Fie Interactior Hunt Ru Exam Quiz Homework Project	ture, Extreme Fine EXAM ron Atoms and Sch ent Particle Model a eld Approach n of Atoms with Ext les and Atomic Ter Method Face	Structure rödinger's Equation and Variation Methods ternal Electric Field an		eman and th	Number 1 -	YY YY YY YY YY YY YY Weight % 50
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Evaluation	9 10 11 12 13 14 Break Exam General Exam 1	MIDTERM Multielectr Independe Central Fie Interaction Hunt Rui Exam Quiz Homework Project Face Can improve	ture, Extreme Fine EXAM ron Atoms and Sch ent Particle Model a eld Approach n of Atoms with Ext les and Atomic Ter Method Face - - - -	Structure rödinger's Equation and Variation Methods ternal Electric Field an m Symbols	d Magnetic Field; Ze	ertise.	Number 1 - - 1 1 - 1 1 1 1 1 1 1	YY YY
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<i>Evaluation</i> <i>Course</i>	9 10 11 12 13 14 Break Exam General Exam 1 2 3 4	MIDTERM Multielectr Independe Central Fie Interaction Hunt Rui Exam Quiz Homework Project Face Can improve The energy examined. Develop the Learn the ef	ture, Extreme Fine EXAM ron Atoms and Sch ent Particle Model a eld Approach n of Atoms with Ext les and Atomic Ter Method Face - - - - e their knowledge of i levels of atoms lear ability to solve probl fects of the interactio	Structure rödinger's Equation and Variation Methods ternal Electric Field an m Symbols issues related to atomic p rns about fine structure a lems related to atomic sys on of atoms with the elect	d Magnetic Field; Ze	ertise. which fine stru dge of theoretic	Number 1 - - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	YY YY
Evaluation Course Outcomes:	9 10 11 12 13 14 Break Exam General Exam 1 2 3 4 5	MIDTERM Multielectr Independe Central Fie Interaction Hunt Rui Exam Quiz Homework Project Face Can improve The energy examined. Develop the Learn the ef Comprehen	ture, Extreme Fine EXAM ron Atoms and Sch ent Particle Model a eld Approach n of Atoms with Ext les and Atomic Ter Method Face - - - - e their knowledge of i levels of atoms lear ability to solve probl fects of the interactio	Structure rödinger's Equation and Variation Methods ternal Electric Field an m Symbols issues related to atomic p rns about fine structure a lems related to atomic sys on of atoms with the elect	d Magnetic Field; Ze	ertise. which fine stru dge of theoretic	Number 1 - - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	YY YY
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