Subio	ct Code		017 – Ph							1arks		Cro	dite
Subject Code		Subject Nomenclature		Contact Hrs				Maximum Mark			Т	Credits T P Tot	
PH1	.0017	Physics		2	1	0	30	70	3 ••	End	3	0	3
. No.		, , , , , , , , , , , , , , , , , , ,		Торіс	;								Date
L1	Principle	of superposition. C	onditions for	r susta	ainec	l inte	rferen	ce.					
L2	Division of wavefront and amplitude, Newton's rings.												
T1	Interference												
L3	class of diffraction, N (grating) slits												
L4	Rayleigh's criteria and resolving power.												
L5	Diffraction & resolving power												
T2	Diffraction												
L6	Absorption, emission processes, components of lasers, optical resonator.												
L7	Einstein's A & B coefficients. Population inversion,												
L8	He-Ne la	sers, applications.											
Т3	Lasers												
L9	Classifica	ation, acceptance a	ngle, numer	ical a	pertu	re, V	-numt	ber					
L10	Losses, FO-Sensors, FO communication												
T4	Fiber Opt	lics											
L11	Postulate	s of STR and Lore	ntz transforn	nation	ı equ	ation							
L12	time dilation length contraction, twin paradox												
L13	Relativist	ic velocity											
T5	Basics of	Relativity theory											
L14	Relativist	ic mass											
L15	mass-ene	ergy relation.											
Т6	Special T	heory of Relativity											
L16	Planck's	radiation formula, l	Jltraviolet ca	atastro	phe.								
L17	Compton	's effect.											
L18	de Broglie	e's concept of matt	er waves, H	eisenl	berg'	s uno	certair	ity rela	tions.				
T7	Foundatio	ons of QM											
L19	Schrodinger's wave equation, Physical interpretation of wave function.												
L20	Particle in a one-dimensional potential well.												
Т8	Wavefunction and Schrodinger's eqn												
L21	Introduction to thermodynamics properties and process												
L22	Heat and	Work, Zeroth law	of TD										
L23	First law	of TD											
Т9	Fundame	Fundamentals of TD											
L24	Steady flow energy eq., Second law												
L25	Second la	aw of TD continued	1										
T10	Thermody	ynamics											