

Name : Dr. M.P. Aggarwal
 Class and Section : B.Sc. IInd year , IVth sem.
 Subject : Physics – II

Week	Date	Topic
1	1-Jan-19	Introduction to unit – II fourier Analysis
	2-Jan-19	Fourier theorem , fourier series and its importance & limitations
	3-Jan-19	
	4-Jan-19	
	5-Jan-19	
	6-Jan-19	Sunday
	2	7-Jan-19
8-Jan-19		Evaluation of fourier coefficients in intervals (- π , π), (0, π)
9-Jan-19		Fourier series of function f(x) in (-L,L) and for odd / even functions
10-Jan-19		
11-Jan-19		
12-Jan-19		
13-Jan-19		Sunday
3	14-Jan-19	Complex form of fourier series , App. Of F.S. to Rectangular wave
	15-Jan-19	Application of F.S. to Triangular wave
	16-Jan-19	Application of F.S. to H.W.R. output
	17-Jan-19	
	18-Jan-19	
	19-Jan-19	
	20-Jan-19	Sunday
4	21-Jan-19	Application of F.S. to F.W.R. output
	22-Jan-19	Parsevals identity and fourier integrals
	23-Jan-19	Revision of unit – II & assignment
	24-Jan-19	
	25-Jan-19	Sir Chhotu Ram Jayanti
	26-Jan-19	Republic Day
	27-Jan-19	Sunday
5	28-Jan-19	Test – I on unit – II
	29-Jan-19	Unit – III Introduction to fourier transform
	30-Jan-19	Properties of fourier transforms
	31-Jan-19	

Week	Date	Topic
1	1-Feb-19	
	2-Feb-19	
	3-Feb-19	Sunday
2	4-Feb-19	F.T. of the function $f(x) = e^{-x/2}$
	5-Feb-19	F.T. of the $f(x) = \begin{cases} 1 & x < a \\ 0 & x > a \end{cases}$
	6-Feb-19	Solution of fourier integrals
	7-Feb-19	
	8-Feb-19	
	9-Feb-19	
	10-Feb-19	VasantPanchami / Sunday
3	11-Feb-19	Solution of ordinary differential equations
	12-Feb-19	Introduction to matrix methods in pavexial optics
	13-Feb-19	Translation and Refraction Matrices
	14-Feb-19	
	15-Feb-19	
	16-Feb-19	
	17-Feb-19	Sunday
4	18-Feb-19	
	19-Feb-19	Guru Ravi Dass Birthday
	20-Feb-19	Position of image plance and magnification of optical system
	21-Feb-19	
	22-Feb-19	
	23-Feb-19	
	24-Feb-19	Sunday
5	25-Feb-19	System matrix of thick lens & thin lens formula
	26-Feb-19	Unit planes and focal length of thick lens
	27-Feb-19	Nodal planes & focal length of system of two thin lenses
	28-Feb-19	

Week	Date	Topic
1	1-Mar-19	MahaShivratri
	2-Mar-19	
	3-Mar-19	Sunday
2	4-Mar-19	Numericals problems and Revision of unit - III
	5-Mar-19	Unit – IV introduction to lens Aberration
	6-Mar-19	Chromatic Aberration causes and types
	7-Mar-19	
	8-Mar-19	
	9-Mar-19	
	10-Mar-19	Sunday
3	11-Mar-19	Achromatic combination of two lenses
	12-Mar-19	Spherical aberration causes and removal
	13-Mar-19	Astigmatism , Coma and distortion aberrations
	14-Mar-19	
	15-Mar-19	
	16-Mar-19	
	17-Mar-19	Sunday
4	18-Mar-19	University Holidays
	19-Mar-19	University Holidays
	20-Mar-19	University Holidays
	21-Mar-19	University Holidays
	22-Mar-19	University Holidays
	23-Mar-19	University Holidays
	24-Mar-19	Sunday
5	25-Mar-19	Optical fiber , critical angle , Acceptance angle
	26-Mar-19	Fractional Refractive Index , Numerical Aperture
	27-Mar-19	Mode of propagation , types of optical fiber , Neutralized frequency
	28-Mar-19	
	29-Mar-19	
	30-Mar-19	
	31-Mar-19	Sunday

Week	Date	Topic
1	1-Apr-19	Pulse dispersion , Attenuation and Application of fibers
	2-Apr-19	Revision and numerical problems on unit – IV
	3-Apr-19	Unit – I introduction to Polarization
	4-Apr-19	
	5-Apr-19	
	6-Apr-19	
	7-Apr-19	Sunday
2	8-Apr-19	Polarization by reflection , refractions & scattering
	9-Apr-19	Detection of polarized light & law of malus
	10-Apr-19	Calcite crystal – optic axis & principal planes
	11-Apr-19	
	12-Apr-19	
	13-Apr-19	
	14-Apr-19	Vaisakhi / AmbedkarJyanti / Sunday
3	15-Apr-19	Nicol prism – construction , working , uses and limitations
	16-Apr-19	Huygens’s theory of double refraction
	17-Apr-19	MahavirJayanti
	18-Apr-19	
	19-Apr-19	
	20-Apr-19	
	21-Apr-19	Sunday
4	22-Apr-19	Elliptically & circular polarized light
	23-Apr-19	Quarter wave plate and half wave plate
	24-Apr-19	Optical rotation , fresnel’s theory of optical rotation
	25-Apr-19	
	26-Apr-19	
	27-Apr-19	
	28-Apr-19	Sunday
5	29-Apr-19	Specific rotation and polrimeters
	30-Apr-19	Revision and numerical problem on unit – I

