

Lesson Plan

Name of the Assistant/ Associate Professor: Dr. M. P. Aggarwal
 Class and Section: B.Sc. II (IV Semester) (1-3 days), Sec. A
 Subject: Physics - P II

Week	Date	Topics
1	1-Jan-18	Motivational Lecture and Int. to syll. of UNIT-II
	2-Jan-18	Fourier theorem, Fourier series, Imp. attribut. of F.T.
	3-Jan-18	Eval. of F.C.s in F.S. of function $f(x)$ in the interval $(0-\pi)$
	4-Jan-18	—
	5-Jan-18	—
	6-Jan-18	—
	7-Jan-18	Sunday
2	8-Jan-18	Eval. of F.C.s. in F.S. of $f(x)$ in $(\pi-\pi)$, (π) or (π)
	9-Jan-18	F.S. of Even and Odd functions, Complex form of F.S.
	10-Jan-18	Application of Fourier Theorem - solution of Rectang. wave
	11-Jan-18	—
	12-Jan-18	—
	13-Jan-18	—
	14-Jan-18	Sunday
3	15-Jan-18	Solution of Triangular Wave
	16-Jan-18	Analysis of Half Wave Rectifier Output
	17-Jan-18	Analysis of Full Wave Rectifier Output
	18-Jan-18	—
	19-Jan-18	—
	20-Jan-18	—
	21-Jan-18	Sunday
4	22-Jan-18	Vasant Panchami
	23-Jan-18	Parseval's Identity for F.S. and Fourier Integral
	24-Jan-18	Sir Chhotu Ram Jayanti
	25-Jan-18	—
	26-Jan-18	Republic Day
	27-Jan-18	—
	28-Jan-18	Sunday
5	29-Jan-18	Revision of Unit-II and Problems Discussions
	30-Jan-18	Test - I on Unit - II
	31-Jan-18	Introduction to Unit-III on Fourier Transforms

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MA

Lesson Plan

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 Class and Section: B.Sc. II (IV Semester) (1-3 days), Sec A
 Subject: Physics - P.II

Week	Date	Topics
1	1-Feb-18	_____
	2-Feb-18	_____
	3-Feb-18	_____
	4-Feb-18	Sunday
2	5-Feb-18	Fourier Transform and its properties
	6-Feb-18	Application of F.T. to function $f(x) = \begin{cases} 1 & x < a \\ 0 & x > a \end{cases}$
	7-Feb-18	Application of F.T. to function $f(x) = e^{-x/a}$
	8-Feb-18	_____
	9-Feb-18	_____
	10-Feb-18	Maharshi Dayanand Saraswati Jayanti
	11-Feb-18	Sunday
	12-Feb-18	Eval. of Fourier Integral and sol. of O.D.E.
3	13-Feb-18	Maha Shivratri
	14-Feb-18	Int. to Matrix Methods in Paraxial optics
	15-Feb-18	_____
	16-Feb-18	_____
	17-Feb-18	_____
	18-Feb-18	Sunday
	19-Feb-18	Translation and Refraction Matrices
4	20-Feb-18	Derivation of Thin Lens formula
	21-Feb-18	Unit Planes and Derivation of Thick Lens formula
	22-Feb-18	_____
	23-Feb-18	_____ Test _____
	24-Feb-18	_____
	25-Feb-18	Sunday
	26-Feb-18	Nodal Planes, system of thin lenses
5	27-Feb-18	Problems on Unit-III and Rev. in short, Assign meet on Unit III
	28-Feb-18	Holidays (K.V.K. Vacations)

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Name of the Assistant/ Associate Professor: Dr. M. P. Aggarwal
 Class and Section: B.Sc. II (IV semester) (1-3 days) Sec. A
 Subject: Physics - P II

Week	Date	Topics
1	1-Mar-18	Guru Ravidas Birthday
	2-Mar-18	Holi
	3-Mar-18	_____
	4-Mar-18	Sunday
2	5-Mar-18	Introduction to Unit-III: Geometric Optics-II
	6-Mar-18	Chromatic Aberration, causes and removal
	7-Mar-18	Spherical aberration, causes and removal
	8-Mar-18	_____
	9-Mar-18	_____
	10-Mar-18	_____
	11-Mar-18	Sunday
3	12-Mar-18	Come, astigmatism, distortion: def. and removal.
	13-Mar-18	Optical Fiber, Critical angle of propagation
	14-Mar-18	Acceptance angle, N.A., Fraction Ref. Index
	15-Mar-18	_____
	16-Mar-18	_____
	17-Mar-18	_____
4	18-Mar-18	Sunday
	19-Mar-18	Mode of Propagation, Types of Optical Fibres
	20-Mar-18	Normalized frequency, Pulse dispersion, Attenuation
	21-Mar-18	Applications, fibre optics Comm., Advantages
	22-Mar-18	_____
	23-Mar-18	Shaheed Diwas of Bhagat Singh, Rajguru & Sukhdev
	24-Mar-18	_____
	25-Mar-18	Sunday/ Ram Navami
5	26-Mar-18	Revision of unit-IV and Numerical Problems
	27-Mar-18	Test-II on unit-IV and Assignment-II
	28-Mar-18	Introduction to Unit-I: Polarization Concepts
	29-Mar-18	Mahavir Jayanti
	30-Mar-18	_____
	31-Mar-18	_____

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 Subject: Physics - PII

Week	Date	Topics
1		Sunday
	1-Apr-18	
	2-Apr-18	Polarization by reflection, refraction, scattering, Law
	3-Apr-18	Double Refraction, Calcite Crystal - optic axis, ^{of} Malus's P. Planes.
	4-Apr-18	Tyres of Crystals, Nicol Prism details
	5-Apr-18	_____
	6-Apr-18	_____
	7-Apr-18	_____
2	8-Apr-18	Sunday
	9-Apr-18	Quarter wave Plate and Half wave Plates
	10-Apr-18	Production of circularly and Elliptical Polarized Light
	11-Apr-18	Detection of plane, circularly, elliptical pol. light
	12-Apr-18	_____
	13-Apr-18	_____
	14-Apr-18	Dr Ambedkar Jayanti / Vaisakhi
15-Apr-18	Sunday	
3	16-Apr-18	optical activity, optical Rotation & sp. Rotation
	17-Apr-18	Fresnel's Theory of optical Rotation, Polarimeter Genent.
	18-Apr-18	Parashurama Jayanti
	19-Apr-18	_____
	20-Apr-18	_____
	21-Apr-18	_____
	22-Apr-18	Sunday
	4	23-Apr-18
24-Apr-18		Numerical Prob. in unit - I and Revision
25-Apr-18		Test on unit - I
26-Apr-18		_____
27-Apr-18		_____
28-Apr-18		_____

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