

MAHARANA PRATAP P.G COLLEGE, JUNGLE DHSUSHAN,
GORAKHPUR, UP
B Sc IInd YEAR (PHYSICS)

Date	Lecture No	Teachers Name	Paper	Chapter	Topic
16.07.2020	1	Maneeta Singh	III	Introduction	List of book
17.07.2020	1	Abhishek verma	II	Introduction	List of book
18.07.2020	1	Abhishek verma	I	Kinetic theory of gases	Maxwell law of distribution of molecular speeds
20.07.2020		Maneeta Singh		<i>Class Teaching</i>	
21.07.2020	2	Maneeta Singh	III	Basic semiconductor physics	Energy band theory and energy band pictures of semiconductors
22.07.2020	1	Maneeta Singh	II	Interference of light	Superposition principle & young's double slit experiment
23.07.2020	2	Abhishek verma	II	Polarisation	Linearly Circularly and elliptically polarised light, its production and detection
24.07.2020	2	Abhishek verma	I	Kinetic theory of gases	Law of equipartition of energy
27.07.2020	3	Abhishek verma	I	Kinetic theory of gases	Specific heat of ideal gas
28.07.2020		Maneeta Singh		<i>Class Teaching</i>	
29.07.2020	3	Maneeta Singh	III	Basic Semi conductor physics	Electron hole densities
30.07.2020	2	Maneeta Singh	II	Interference	Young's double slit
31.07.2020	3	Abhishek verma	II	Polarisation	Brewster's law, law of malus
04.08.2020	4	Abhishek verma	I	Kinetic theory of gases	Transport phenomenon
05.08.2020	5	Abhishek verma.	I	Kinetic theory of gases	Mean free path
06.08.2020		Maneeta Singh		<i>Class Teaching</i>	
07.08.2020	4	Maneeta Singh	III	Basic semiconductor physics	Electrical conductivity of intrinsic semiconductor
08.08.2020	3	Maneeta Singh	II	Interference	Coherence
10.08.2020	4	Abhishek verma	II	Polarisation	Double refraction
11.08.2020	6	Abhishek verma	I	Kinetic theory of gases	Conduction, Viscosity and diffusion.
13.08.2020	7	Abhishek verma	I	Equation of states	Andrew's Experiment
14.08.2020		Maneeta Singh		<i>Class Teaching</i>	
17.08.2020	5	Maneeta Singh	III	Basic semiconductor physics	Electrical conductivity of extrinsic semiconductor
18.08.2020	4	Maneeta Singh	II	Interference	Fresnel Biprism
19.08.2020	5	Abhishek verma	II	Polarisation	Huygens's theory of double refraction
20.08.2020	8	Abhishek verma	I	Equation of states	Specific heat of saturated vapor
21.08.2020	9	Abhishek verma	I	Equation of states	Vander waal's equation of state

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22.08.2020		Maneeta Singh		<i>Class Teaching</i>	
24.08.2020	6	Maneeta Singh	III	Basic semiconductor physics	Minority and majority charge carriers
25.08.2020	5	Maneeta Singh	II	Interference	Fringes of equal thickness
26.08.2020	6	ABHISHEK VERMA.	II	Polarisation	Nicol Prism, Double Image prism
27.08.2020	10	ABHISHEK VERMA.	I	Equation of states	Boyle's temperature
28.08.2020	11	ABHISHEK VERMA.	I	Equation of states	Critical constants
01.09.2020		Maneeta Singh		<i>Monthly evaluation</i>	
02.09.2020	7	Maneeta Singh	III	Basic semiconductor physics	Drift and diffusion currents , continuity equation
03.09.2020	6	Maneeta Singh	II	Interference	Newton's ring
04.09.2020	7	ABHISHEK VERMA.	II	Polarisation	Optical rotation
05.09.2020	12	ABHISHEK VERMA.	I	Thermodynamics and entropy	Reversible and irreversible process
07.09.2020	13	ABHISHEK VERMA.	I	Thermodynamics and entropy	Carnot's theorem
08.09.2020		Maneeta Singh		<i>Class Teaching</i>	
09.09.2020	8	Maneeta Singh	III	Digital electronics	Decimal and binary numbers systems and their conversion
10.09.2020	7	Maneeta Singh	II	Interference	Michelson interferometer
11.09.2020	8	ABHISHEK VERMA.	II	Polarisation	Polari meter
12.09.2020	14	ABHISHEK VERMA.	I	Thermodynamics & entropy	Absolute scale of temperature
14.09.2020	15	ABHISHEK VERMA.	I	Thermodynamics & entropy	Second law of thermodynamics
15.09.2020		Maneeta Singh		<i>Class Teaching</i>	
16.09.2020	9	Maneeta Singh	III	Digital electronics	Boolean Algebra
18.09.2020	8	Maneeta Singh	II	Interference	Uses of Michelson interferometer
19.09.2020	1	S.K.T.	II	Aberration in images	Introduction, chromatic aberration
21.09.2020	16	ABHISHEK VERMA.	I	Thermodynamics & entropy	Entropy and its physical significance
22.09.2020	17	ABHISHEK VERMA.	I	Thermodynamics & entropy	Entropy of simple reversible irreversible process
23.09.2020		Maneeta Singh		<i>Monthly Evaluation</i>	
24.09.2020	10	Maneeta Singh	III	Digital electronics	Demorgan's is theorem
25.09.2020	9	Maneeta Singh	II	Interference	Intensity distribution in multiple beam
26.09.2020	2	S.K.T.	II	Aberration in images	Monochromatic aberration
28.09.2020	11	Maneeta Singh	III	Digital electronics	logic gates AND, OR Gates

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29.09.2020	18	ABHISHEK VERMA.	I	Maxwell thermo dynamic relation	Maxwell thermo dynamical relations
30.09.2020		Maneeta Singh		Monthly Evaluation	
01.10.2020	12	Maneeta Singh	III	Digital electronics	NOT, NAND, NOR, XNOR gates
03.10.2020	10	Maneeta Singh	II	Interference	Fabry-Perot Interferometer
05.10.2020	3	S.K.T.	II	Aberration in images	Spherical aberration
06.10.2020	19	ABHISHEK VERMA.	I	Maxwell thermo dynamical relations	Application of Maxwell thermo dynamical relations
07.10.2020	20	ABHISHEK VERMA.	I	Maxwell thermo dynamical relations	Clausius – clapeyron latent heat equation
09.10.2020		Maneeta Singh		Class Teaching	
10.10.2020	13	Maneeta Singh	III	Digital electronics	Universality of NOR & NAND Gates
12.10.2020	11	Maneeta Singh	II	Interference	Tolansky fringes
13.10.2020	4	S.K.T.	II	Aberration in images	Achromatic combination of lenses
14.10.2020	21	ABHISHEK VERMA.	I	Maxwell thermo dynamical relations	T ds equations
15.10.2020	22	ABHISHEK VERMA.	I	Maxwell thermodynamic relations	Joule-Thomson effect
16.10.2020		ABHISHEK VERMA.		Monthly Evaluation	
17.10.2020	14	Maneeta Singh	III	p-n junction	Built in potential, width & capacitance of depletion region
19.10.2020	5	S.K.T.	II	Fresnel diffraction	Zone's plate
20.10.2020	6	S.K.T.	II	Aberration in images	Schmidt corrector plates , oil immersion objectives
21.10.2020	23	ABHISHEK VERMA.	I	Maxwell thermo dynamical relations	Internal energy equation
22.10.2020	24	ABHISHEK VERMA.	I	Maxwell thermo dynamical relations	Specific heat equations
23.10.2020		ABHISHEK VERMA.		Class Teaching	
29.10.2020	15	Maneeta Singh	III	p-N junction	Current in biased p-n junction
31.10.2020	7	S.K.T.	II	Fresnel Diffraction	Circular aperture
02.11.2020	8	S.K.T	II	Optical instruments	Entrance and exit pupils

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03.11.2020	25	ABHISHEK VERMA.	I	Maxwell thermo dynamical relations	Magneto-caloric effect, reversible electrolytic cell
04.11.2020	26	ABHISHEK VERMA.	I	Conduction	Mathematical analysis of Rectilinear flow of heat
05.11.2020		ABHISHEK VERMA.		<i>Class Teaching</i>	
06.11.2020	16	Maneeta Singh	III	p-n junction	Varactor diode,
07.11.2020	9	S.K.T.	II	Fresnel diffraction	Straight edge, rectilinear propagation
09.11.2020	10	S.K.T.	II	Optical instruments	Multiple lens eyepiece
10.11.2020	27	ABHISHEK VERMA.	I	Conduction	Accretion of ice at the surface of ponds, Conductivity of bad conductors.
17.11.2020	17	Maneeta Singh	III	p-n junction	Zener diode and its characteristics
18.11.2020		Maneeta Singh		<i>Class Teaching</i>	
19.11.2020	18	Maneeta Singh	III	p-n junction	Zener breakdown mechanism
21.11.2020	11	S.K.T.	II	Fraunhofer diffraction	Diffraction due to one slit
23.11.2020	12	S.K.T.	II	Optical instruments	Huygens's eyepiece
24.11.2020	28	ABHISHEK VERMA.	I	Radiation	Black body radiation, Kirchhoff's law & its application
26.11.2020	19	Maneeta Singh	III	p-n junction	solar cell
27.11.2020		ABHISHEK VERMA.		<i>Monthly Evaluation</i>	
28.11.2020	20	Maneeta Singh	III	p-n junction	Photo diode
01.12.2020	13	S.K.T.	II	Fraunhofer diffraction	Circular aperture & circular disc
02.11.2020	14	S.K.T.	II	Optical instruments	Ramsden eyepiece
03.12.2020	29	ABHISHEK VERMA.	I	Radiation	Pressure and energy density of diffused radiation
07.12.2020	30	ABHISHEK VERMA.	I	Radiation	Stefan's Boltzmann's law
08.12.2020		ABHISHEK VERMA.		<i>Class Teaching</i>	
09.12.2020	21	Maneeta Singh	III	Transistors	p-n-p & n-p-n transistor
11.12.2020	15	S.K.T.	II	Fraunhofer diffraction	Resolution, Rayleigh criteria
12.12.2020	16	S.K.T.	II	Fraunhofer diffraction	Resolving power of human eye
14.12.2020	31	ABHISHEK VERMA.	I	Radiations	Spectral distribution, solar constant
15.12.2020	32	ABHISHEK VERMA.	I	Radiations	Wien's displacement law, Rayleigh Jeans law
16.12.2020		Maneeta Singh		<i>Class Teaching</i>	
17.12.2020	22	Maneeta Singh	III	Transistors	Potential divider biasing of transistors

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18.12.2020	17	S.K.T.	II	Fraunhofer diffraction	Grating, prism, microscope
21.12.2020	9	Abhishek verma	II	General theory of image formation	Cardinal points of an optical system
22.12.2020	10	Abhishek verma	II	General theory of image formation	general relationships, Thick lens & lens combination
23.12.2020	33	ABHISHEK VERMA.	I	Radiations	Planck's hypothesis and its applications to black body radiation .
24.12.2020		ABHISHEK VERMA.		Class Teaching	
26.12.2020	23	Maneeta Singh	III	Transistors	Characteristics of three configuration CE, CB, CC
28.12.2020	24	Maneeta Singh	III	Transistors	α β and hybrid parameters and their relationship,
29.12.2020	25	Maneeta Singh	III	Transistors	FET & MOSFET, Principle of operation, characteristics and parameters
30.12.2020	34	Abhishek verma	I	Cryogenics	Principal of Refrigeration, Porus plug experiment
31.12.2020	11	Abhishek verma	II	General theory of image formation	Telephoto lens
01.01.2021		Maneeta Singh		Monthly Evaluation	
02.01.2021	26	Maneeta Singh	III	Modulation & Demodulation	Definition of three kinds of modulations, expression for AM, FM and PM waves,
04.01.2021	27	Maneeta Singh	III	Modulation & Demodulation	Vander-Bijl modulator, Linear diode detector
06.01.2021	28	Maneeta Singh	III	Radio transmitter & receiver	AM transmitter, super heterodyne radio receiver,
07.01.2021	35	ABHISHEK VERMA.	I	Cryogenics	Liquefaction of air, H & He ,solidification of He
08.01.2021	12	ABHISHEK VERMA.	II	Fermat's principle	Principle of extremum path
09.01.2021		ABHISHEK VERMA.		Class Teaching	
11.01.2021	29	Maneeta Singh	III	Radio transmitter & receiver	Qualities of radio receiver , Standard broadcast radio receiver
12.01.2021	30	Maneeta Singh	III	Radio transmitter & receiver	Image frequency, AVC and tuning indicator.
13.01.2021	36	ABHISHEK VERMA.	I	Cryogenics	Adiabatic demagnetization of paramagnetic salt
16.01.2021	13	ABHISHEK VERMA.	II	Fermat's principle	The Aplanatic points of a sphere and other Applications.
18.01.2021	18	S.K.T.	II	Diffraction grating	Diffraction due to two slit, h-parallel slit, grating
19.01.2021		Maneeta Singh		Class Teaching	

Date	Lecture No	Teachers Name	Paper	Chapter	Topic
20.01.2021	31	Maneeta Singh	III	Amplifier & Oscillator	Small signal hybrid equivalent circuit of BJT, RC coupled CE amplifiers,
21.01.2021	32	Maneeta Singh	III	Amplifier & Oscillator	Frequency and phase response. Amplifier circuit using FET
22.01.2021	37	ABHISHEK VERMA.	I	Cryogenics	Principle of regenerative cooling
23.01.2021	33	Maneeta Singh	III	Amplifier & Oscillator	Oscillator as positive feedback amplifier, Barkhausen criteria of sustained oscillation
25.01.2021		ABHISHEK VERMA.		Monthly Evaluation	
27.01.2021	34	Maneeta Singh	III	Amplifier & Oscillator	LC tuned collector oscillator.
28.01.2021	35	Maneeta Singh	III	Amplifier & Oscillator	Hartley and Colpitts transistor oscillator
29.01.2021	36	Maneeta Singh	III	Revision	Revision
30.01.2021	37	Maneeta Singh	III	Revision	Revision