INDIRA GANDHI GOVT COLLEGE PANDARIA, DISTT. KABIRDHAM

ANNUAL TEACHING PLAN (ACADEMIC SESSION 2022-23
COURSE:UNDER GRADUATION. SUBJECT : PHYSICS CLASS: B.Sc - I ,II, III YEAR

NAME OF TEACHER

EXPECTED MONTH	PAPER AND UNIT	TOPIC DESCRIPTION B.Sc. I	TOPIC DESCRIPTION B.Sc. II	TOPIC DESCRIPTION B.Sc. III	Expected class	Tutorial / Remedial classes	Co-curricular activities	Extra curricular activities	Teaching Aids
August									
September	B.sc I p1 p2 unit 1,1 B.sc2 p1 p2 unit 1,1 B.sc 3rd year	cartesian cylindrical and spherical coordinet,keplers law ,center mass,conservation, repeated integral of a function of more than one variable ,kirchoff law,gauss theorem ,green theorem ,superposition the	thelaws of thermodynamics ,carnot cycles ,carnot theorem ,claussius throrem inequality ,wave in media ,reflection	referance system ,inertial frames ,galilean invariance propagation of light ,massd energy equivalnce ,amorphous and crystalline solids ,laus equation for X-ray diffraction ,dulong petits law ,brillouin zone ,classical theory	56+59		Independance Day	Cleanines s program	Chalk, Board & Dustar
October	B.sc I p1 p2 unit 2,2 B.sc2 p1 p2 unit 2,2 B.sc 3rd year	Rigid body motion,rotational montion ,kinetic energy ,potentialenergy torsional pendulum,spring and mass system coulomb law in vacuum expressed in vector forms, gauss law and its application ,flux of .	fermats princile of extremum path ,the aplantic point of a spher and other applications ,telephoto,thermody namic function ,Tds equation ,van der waal gas	free electron model ofa matal ,kronig penny model without mathematical detail ,curies weiss law ,B-H curve,origin of the quantum theory ,compton effect ,wav partical,photoelectric effect ,bohrs principle ,gamma ray microscope ,diffraction at a	55+58		Ozone day, nation hinhi divas		Chalk, Board & Dustar

nber									
	B.Sc. P1 UNIT - 3 P2 UNIT- 3 B.Sc.2nd P1 UNIT - 3 P2 UNIT 3 B.Sc. 3rdB.Sc. P1 UNIT - 3 P2 UNIT -	Bifilar oscillation,helmholtz resonator,Lcircuit, lissajous figures,quilty factor,examples ,resonance ,dielectric constant,polar and non polar dielectrics ,polarization ,electric polariztion vector P,lorent I.	maxwellian distribution of speed in an ideals gas ,doppler broadening of spectral lines ,behaviour of real gas ,interfernce of light ,thin films ,newtons law ,michelson interferometer	industrial microbiology, lipid metabolism & protein catabolism,p- junction ,zener diode LED,FETand MOSFET characteristics ,bipolar transistors ,quntum mechanics ,schrodingers equation ,ehrenfeststheorem	58+58		gandhi jayanti		Chalk, Board & Dustar
December	B.Sc.1st P1 P2 UNIT 4,4 B.Sc.2nd P1 UNIT - 1, P2 UNIT - 1	E as accelerating filed,electron gun,principle of a cyclotron ,mutually perpendicular E and B field,parallel Eand B fields ,magnetization current BH	diffracation ,types of diffracation ,fresnel diffraction ,half period zone ,nicol prism,biquartz polarimeter ,huygens .	spectra of hydrogen ,deuteron and alkali atoms spectral terms ,doublet fine structure,screening constans for alkali spectra for s,p,d and f states	56+60		Constitutio n day, Chhatishg arh rajbhasha divas		Chalk, Board & Dustar
January	B.Sc.1st P1 P2 UNIT 5,5 B.Sc.2nd P1 UNIT - 5 P2 UNIT - 5 B.Sc.- 3rd	Electromagnetic induction ,faraday law ,electromotive force ,maxwell displacement current,poynting vector ,elasticity,viscosity,	lasersystem ,einstein A and B coefficient ,He-Ne laser , indistinguishability of partical and its consequences,bose .	struture of nuclei ,basic properties of nuclei,leptons and mesons quantum number,digital circuits ,AND,OR and NOT gates ,NAND and NOR gates as u	55+60		National youth day	Human right day	Chalk, Board & Dustar

	B.Sc.1st P1 P2 UNIT 1,1 B.Sc.2nd P1 UNIT - 1, P2 UNIT - 1 B.Sc.- 3rd	elastic and inelastic collisions in one two dimensions ,scattering angle in the laboratory frame of refernce thevenin theorem,norton theorem	entrophy change in irreversibleand irreversible process ,entropy of ideal gas telephote lenses ,optical instruents	cohesive energy of solid ,madelung constant ,braggs law ,bondingin solids ,einstein and debye theorem length contraction ,time dilation ,lorentz transformatio	60+58		Republic day		Chalk, Board & Dustar
	B.Sc.1st P1 P2 UNIT 2,2 B.Sc.2nd P1 UNIT - 2 , P2 UNIT 2 B.Sc.- 3rd	electric potential and electric field ,torque on a dipol in a uniform electric field and its energy ,case of harmonic small oscillations of two simple harmonic ,eular equation	condition for sustained intrface theorem of interfernce ,fabry - perot ,rayleing refactometer ,stafan boltzman law , blackbody spectram	davisson and gerrrmers experiment consequence of de broglies concepts ,bihr complementary princple ,langevin theorem of dia and semiconductors ,dia para and ferromagnetism fermi ..	50+52		National science day		Chalk, Board & Dustar
	B.Sc.1st P1 P2 UNIT 3,3 B.Sc.2nd P1 UNIT - 3 P2 UNIT - 3 B.Sc.- 3rd	powerdissipation ,driven harmonic oscillator transient and steady states clausius mossotti equation debye equation ,ferrorlrctric and paraelectric ,LR,CR circuit	deviation from the ideal gas eqution ,critical constants ,transport of mass ,multiple beam interference in paralel film ,twtman green interferometer and its	tunnel diode bipolar transistors ,pnp and npn transistors ,solar cell,operator ,expection value ,reflection at a step potential ,transmission across a potential barrier	57+55				Chalk, Board & Dustar

Note: (1) Practical class will be organised according to time table.

(2)Remideal and Tuterial class will be organised according to time table

(3)Presentation/ Seminar/ Group discussion also take according as per plan.

Co-curricular activities and Extra curricular activities are also organised as per plan.