INDIRA GANDHI GOVT COLLEGE PANDARIA, DISTT. KABIRDHAM

ANNUAL TEACHING PLAN (ACADEMIC SESSION 2017-18)

COURSE. UNDER GRADUATION. SUBJECT : PHYSICS CLASS: B.Sc.- I, II, III YEAR

NAME OF TEACHER: Tekchand Jangde

MONTH	EXPECTED PAPER AND UNIT	TOPIC DESCRIPTION			Expected class	Tutorial / Remedial activities	Co-curricular activities	Extra curricular activitie	Teaching Aids
		B.Sc. I	B.Sc. II	B.Sc. III					
July	B.Sc. I								
August: 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 frames ,galilean invariance ,carnot cycles ,carnot theorem ,claussius throrem inequality ,wave in media ,reflection	reference system ,inertial propagation of light ,massd energy equivalnce ,amorphous and crystalline solids ,laus equation for X-ray diffraction dulong petits law ,brillouin zone ,classical theory	$21+21 = 42$ 8	ace Day	Independ Cleanin ess progran	Chalk Board & Dustar	Chalk, Board & Dustar
September: 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 .	extremum path ,the aplantic point of a spher and other applications ,telephoto,thermodyna mic 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 particol photoelectric effect ,bohrs principle ,gamma ray microscope ,diffraction	44 4	Ozone day, nation hinthi divas		Chalk, Board & Dustar	

Month / Class & Unit	Topics				No.	Days	Event	Teaching Aid
October B.Sc. P1 UNIT-3 P2 UNIT-3 B.Sc.2nd P1 UNIT-3 P2 UNIT-3 B.Sc. 3rd B.Sc. P1 UNIT-3 P2 UNIT-3	Bifilar oscillation, helmholtz resonator, Lcircuit, lissajous figures, qulity factor, examples, resonance, dielectric constant, polar and non polar dielectrics, polarization, electric polariztion vector P, lorent I.	of speed in an ideals gas, doppler broadening of spectral lines, behaviour of real gas, interfernce of light, thin films, newtons law, michelson	maxwellian distribution	industrial microbiology, lipid metabolism & protein catabolism, p-junction zener diode LED, FET and MOSFET characteristics, bipolar transistors, quntum mechanics, schrodingers equation, ehrenfeststheorem	48	8	gandhi jayanti	Chalk, Board & Dustar
November B.Sc.1st P1 P2 UNIT 4,4 B.Sc.2nd P1 UNIT-1, P2 UNIT-1 B.Sc.-3rd	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 aiffracation, 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		44	8	Constituti on day, Chhatish garh rajbhash a divas	Chalk, Board & Dustar
December 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. u	struture of nuclei, basic properties of nuclei; leptons and mesons quantum number, digital circuits, AND,OR and NOT gates, NAND and NOR gates as		44	8	National Human youth day right day	Chalk, Board & Dustar
January 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 reference, thevenin theorem, norton theorem	entrophy change in irreversibleand irreversible process, entropy of ideal gas theorem length contraction, telephote lenses, optical instruents	cohesive energy of solid, madelung constant, braggs law, bondingin solids, einstein and debye theorem, time dilation, lorentz transformatio		44	8	Republic day	Chalk, Board & Dustar
February 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 simle harmonic, eu'ar equation	condition for sustained intrface theorem of interfernce, fabry-perot, rayleing refactometer, stafan boltzman law, blackbody spectram	davisson and gerrmers experiment consequence of de broglies concepts, bihr complementary principle, langevin theorem of dia and semiconductors, dia para and ferromagnetism fermi		44	8	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 ,tvitman 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		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.

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INDIRA GANDHI GOVT COLLEGE PANDARIA, DISTT. KABIRDHAM

ANNUAL TEACHING PLAN (ACADEMIC SESSION 2018-19)

COURSE-UNDER GRADUATION. SUBJECT : PHYSICS CLASS : B.Sc - I,II, III YEAR

NAME OF TEACHER: Suman Sahu

MONTH	EXPECTED PAPER AND UNIT	TOPIC DESCRIPTION			Expected class	Tutorial / Remed activities	Co-curricular activities	Extra curricul activitie	Teaching Aids
		B.Sc. I	B.Sc. II	B.Sc. III					
July									
August	B.sc I p1 p2 unit 1,1	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	reference system ,inertial frames ,galilean invariance ,propagation of light ,massd .= 44	22+22	8	independ ace Day	Cleanin ess program	Chalk, Board & Dustar
	B.sc2 p1 p2 unit 1,1								
	B.sc 3rd year								
September	B.sc I p1 p2 unit 2,2	Rigid body montion ,rotational montion ,kinetic energy ,potentialenergy torsional pendulum,spring and mass system coulomb law in vacuurn expressed in vector forms, gauss law and its application ,flux of	fermats principle of extremum path ,the aplantic point of a spher and other applications ,telephoto thermodyna mic 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	22+22 = 44	08	Ozone day, nation hinhi divas	Board & Dustar	Chalk, Board & Dustar
	B.sc2 p1 p2 unit 2,2								
	B.sc 3rd year								

Month / Class & Units				Count	Count	Special Day	Material
October E.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 - 3	Bifilar oscillation,helmholtz resonator,lcircuit, lissajous figures,qulity factor,examples ,resonance ,dielectric constant,polar and non polar dielectrics ,polarization ,electric polariztion vector P,lorent L.	maxwellian distribution of speed in an ideals gas ,doppler broadening of spectral ,behaviour of real lines ,interference of light ,thin films ,newtons law ,michelson	industrial microbiology. lipid metabolism & protein catabolisn,p-junction ,zener diode LED,FETand MOSFET characteristics ,bipolar transistors ,quntum mechanics ,schrodingers equation ,ehrenfeststheorem	$2(+2)$ $=42$	04	gandhi jayanti	Chalk, Board & Dustar
November 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 field ,magnetization current BH	diffraction ,types of diffraction ,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	$17+17$ $=34$	04	Constituti on day, Chhatish garh rajbhash a divas	National Human right Chalk, Board & Dustar
December 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 . u	strure of nuclei ,basic properties of nuclei,leptons and mesons quantum number,digital circuits ,AND,OR and NOT gates ,NAND and NOR gates as	$22+22$ $=44$	04	National youth day right day	Chalk, Board & Dustar
January B.Sc.1si 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 thheorem	entropy 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	$21(+2)$ $=42$	08	Republic day	Chalk, Board & Dustar
February 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 specirarn	davisson and gerrmers experiment consequence of de broglies concepts ,bihr complementary principle ,langevin theorem of dia and semicorductors ,dia para and ferromagnetism fermi	$22(+22)$ $=44$	08	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				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.

Sumansahu

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INDIRA GANDHI GOVT COLLEGE PANDARIA, DISTT. KABIRDHAM

ANNUAL TEACHING PLAN (ACADEMIC SESSION 2019-20)

COURSE UNDER GRADUATION SUBJECT: PHYSICS CLASS: B.Sc- I, II, III YEAR

NAME OF TEACHER: Suman Sahu

MONTH	PAPER AND UNIT	TOPIC DESCRIPTION			Expected class	Tutorial/Remed al activities	Co-curricular activities	Extra curricul ar activitie	Teaching Aids
		B.Sc. I	B.Sc. II	B.Sc. III					
EXPECTE D									
July									
August 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 thorem inequality ,wave in media reflection	referance system , inertial frames ,galilean invariance ,propagation of light ,massd energy equivalence ,amorphous and crystalline solids ,laus equation for X-ray diffraction ,dulong petits law ,brillouin zone ,classical theory	$\partial 9 + \partial 9$ $= 44$	8	Independence Day program	Cleanin ess Dustar	Chalk, Board &
September 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,thermodyna mic function ,Tds equation ,van der waal bohrs principle ,gamma ray microscope ,diffraction	free election model of a matal ,kronig penny model without mathematical detail ,curies weiss law ,B-H curve,origin of the quantum theory ,compton effect ,wav partical photoelectric effect	$22+22$ $= 44$	8	Ozone-day, nation hinhi divas	Chalk, Board & Dustar	

Month	Class / Unit	Topic	No.	Day/Event	Method
October	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 - 3	Bifilar oscillation,helmholtz resonator,Lcircuit, lissajous figures,quilty factor,examples ,resonance ,dielectric constant,polar and non polar dielectrics ,polarization ,electric polarization vector P,lorent l.	maxwellian distribution industrial microbiology, lipid metabolism & protein catabolism,p-junction ,zener diode LED,FET and MOSFET characteristics ,bipolar transistors ,quntum mechanics ,schrodingers equation ,ehrenfeststheorem	20+20 =40	4	gandhi jayanti	Chalk, Board & Dustar
November	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	diffraction ,types of diffraction ,fresnel diffraction ,half period zone ,nicol prism,biquartz polarimeter ,huygens . ,newtons law ,michelson	spectra of hydrogen ,deuteron and alkali atoms ,spectral terms ,doublet fine structure, screening constans for alkali spectra for s,p,d and f states	17+17 =34	4	Constituti on day, Chhatish garh rajbhash a divas	Chalk, Board & Dustar
December	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 . u	structure of nuclei ,basic properties of nuclei ,leptons and mesons quantum number,digital circuits ,AND,OR and NOT gates ,NAND and NOR gates as	22+22 =44	8	National Human youth day right day	Chalk, Board & Dustar
January	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 reference ,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	20+20 =40	8	Republic day	Chalk, Board & Dustar
February	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 ,euler 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 principle ,langevin theorem of dia and semiconductors ,dia para and ferromagnetism fermi	22+22 =44	8	National science day	Chalk, Board & Dustar

			Chalk, Board & Duster
B.Sc-1st P1 P2 UNIT 3,3	power dissipation ,driven harmonic oscillator ,transient and steady states ,clausius mossotti equation ,debye equation ,ferroelectric and paraelectric ,LR,CR circuit	deviation from the ideal gas equation ,critical constants ,transport of mass ,multiple beam interference in parallel 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	
B.Sc-2nd P1 UNIT - 3 P2 UNIT - 3				
B.Sc- 3rd				

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

(2) Remedial 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.

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INDIRA GANDHI GOVT COLLEGE PANDARIA, DISTT. KABIRDHAM

ANNUAL TEACHING PLAN (ACADEMIC SESSION 2020-21)

COURSE:UNDER GRADUATION. SUBJECT: PHYSICS CLASS: B.Sc.- I, II, III YEAR

NAME OF TEACHER: Suman Sahu

MONTH	EXPECTE D PAPER AND UNIT	TOPIC DESCRIPTION.			Expecte d class	Tutoria l / Remed ial.	Co-curricular activities	Extra curricul ar activitie.	Teaching Aids
		B.Sc. I	B.Sc. II	B.SC. III					
July									
August	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 ,mass energy equivalnce ,amorphous and crystalline solids ,laus equation for x-ray diffraction ,dulong petits law ,brillouin zone ,classical theory	22722 =44	8	independ ace Day	Cleanin ess program	Chalk, Board & Duster
September	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 aplentic point of a spher and other applications ,telephoto,thermodyna mic 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	2(72) =42	08	Ozone day, nation hinhi divas		Chalk, Board & Duster

Month	Class/Unit	Topics	Topics (cont.)		Special Day	Teaching Aid
October	B.Sc. P1 UNIT - 3 P2 UNIT - 3 B.Sc.2nd P1 UNIT - 3 P2 UNIT - 3 B.Sc. 3rd B.Sc. P1 UNIT - 3 P2 UNIT - 3	Bohar oscillation ,helmholz resonator ,Lorentz ,lissajous figures ,quality factor ,examples of speed in an ideals gas ,doppler broadening of spectral lines ,behaviour of real gas ,interference of light ,thin films ,newtons law ,michelson	maxwellian distribution industrial microbiology ,lipid metabolism & protein catabolism ,p junction ,zener diode LED,FET and MOSFET characteristics ,bipolar transistors ,quntum mechanics ,schrodingers equation ,ehrenfeststheorem	=3.9+22 =44	08 gandhi jayanti	Chalk, Board & Duster
November	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 E and B magnetization current BH	diffraction ,types of diffraction ,fresnel diffraction ,half period zone ,nicol prism ,biquartz polarimeter ,huygens . spectra of hydrogen ,deuteron and alkali atoms ,spectral terms ,double fine structure ,screening constans for alkali spectra for s,p,d and i states	=2(+2) =42	Constabul on day, Chhatsh gan rajohasn a dives 04	Chalk, Board & Duster
December	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 , u structure of nuclei ,basic properties of nuclei,leptons and mesons ,digital circuits number,digital circuits ,AND,OR and NOT gates ,NAND and NOR gates as	=2D+20 =4D	National youth day right day 04	Human day Duster
January	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 reference ,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	=17+17 =34	Republic day 04	Chalk, Board & Duster
February	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 ,euler equation	condition for sustained intrface theorem of interfernce ,fabry - perot ,rayleing refractometer ,stefan boltzman law, blackbody spectram davisson and germmers experiment consequence of de broglies concepts ,bihr complementary principle ,langevin theorem of dia and semiconductors ,dia para and ferromagnetism,fermi	=22+22 =44	National science day 08	Chalk, Board & Duster

March	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	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)Presentaion/ Seminar/ Group discussion also take according as per plan.

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

Seman Sahu

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INDIRA GANDHI GOVT COLLEGE PANDARIA, DISTT. KABIRDHAM

ANNUAL TEACHING PLAN (ACADEMIC SESSION 2021-22)

COURSE:UNDER GRADUATION, SUBJECT : PHYSICS, CLASS: B.Sc.- I, II, III YEAR.

NAME OF TEACHER: NILESHWARI CHANDRAKAR

MONTH	EXPECTED PAPER AND UNIT	TOPIC DESCRIPTION			Expected class	Tutorial/ Remedial activities	Co-curricular activities	Extra curricular Aids	Teaching
		B.Sc. I	B.Sc. II	B.Sc. III					
July									
August	**B.sc I p1 p2 unit 1,1** **B.sc2 p1 p2 unit 1,1** P.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	44+ 44 =88	08	independace Day	Cleanin ess program Dustar	Cnalk, Board &
September	B.sc I p1 p2 unit 2,2 B.sc2 p1 p2 unit 2,2 P.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 principle of extremum path ,the aplantic point of a spher and other applications ,tele-photo,thermodyna mic function ,Tds equation ,van der waal gas	free electron model of a metal ,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	22+22 =44	04	Czone day, nation hinhi dives	Chalk, Board & Dustar	

Month / Course	Topic	Value		Event	Teaching Aid
October B.Sc. P1 UNIT - 3 P2 UNIT - 3	Bifilar oscillation,helmholtz resonator,L.circuit, lissajous figures,qulity factor,examples ,resonance ,dielectric constant,polar and non polar dielectrics ,polarization ,electric polariztion vector P.,lorent l.	$20+20$ $=40$	08	gandhi jayanti	Chalk, Board & Dustar
B.Sc.2nd P1 UNIT - 3 P2 UNIT- 3	maxwellian distribution of speed in an ideals gas ,doppler broadening of spectral lines ,behaviour of real gas ,interference of light ,thin films ,newtons law ,michelson				
B.Sc. 3rd B.Sc. P1 UNIT - 3 P2 UNIT - 3	industrial microbiology, lipid metabolism & protein catabolism,p-junction ,zener diode LED,FET and ,bipolar transistors ,quntum mechanics ,schrodingers equation ,ehrenfeststheorem				
November B.Sc. 1st P1 P2 UNIT 4.4	E as accelerating filed,electron gun,principle of a cyclotron ,mutually perpendicular E and B field,parallel E and B fields ,magnetization current BH	$22+22$ $=44$	08	Constituti on day, Chhatish garh rajbhash a divas	Chalk, Board & Dustar
B.Sc.2nd P1 UNIT - 1, P2 UNIT - 1	diffracation ,types of diffracation ,fresnel diffraction, half period zone ,nicol prism,biquartz polarimeter ,huygens .				
B.Sc.- 3rd	spectra of hydrogen ,deuteron and alkali atoms spectral terms ,doublet fine structure,screening constans for alkali spectra for s,p,d and f states				
December B.Sc.1st P1 P2 UNIT 5.5	Electromagnetic induction ,faraday law , electromotive force , maxwell displacement current,poynting vector ,elasticity,viscosity,	$21+21$ $=42$	04	National youth day	Human right day	Chalk, Board & Dustar
B.Sc.2nd P1 UNIT - 5 P2 UNIT - 5	lasersystem ,einstein A and B coefficient ,He-Ne laser , indistinguishability of partical and its consequences,bose . u				
B.Sc.- 3rd	struture of nuclei, basic properties of nuclei,leptons and mesons quantum number,digital circuits ,AND,OR and NCT gates ,NAND and NOR gates as				
January B.Sc. 1st P1 P2 UNIT 1.1	elastic and inelastic collisions in one two dimensions ,scattering angle in the laboratory frame of refence ,thevenin theorem,norton theorem	$22+22$ $=44$	08	Republic day	Chalk, Board & Dustar
B.Sc.2nd P1 UNIT - 1, P2 UNIT - 1	entrophy change in irreversibleand irreversible process ,entropy of ideal gas ,telephote lenses ,optical instruents				
B.Sc.-3rd	cohesive energy of solid ,madelung constant ,braggs law ,bondingin solids ,einstein and debye theorem ,length contraction ,time dilation ,lorentz transformatio				
February B.Sc. 1st P1 P2 UNIT 2.2	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	$30+30$ $=60$	08	National science day	Chalk, Board & Dustar
B.Sc.2nd P1 UNIT - 2 , P2 UNIT 2	condition for sustained intrface theorem of interference ,fabry - perot ,rayleing refactometer ,stafan boltzman law , blackbody spectram				
B.Sc.-3rd	davisson and gerrmers experiment consequence of de broglies concepts ,binr complementary principle ,langevin theorem of dia and semiconductors ,dia para and ferromagnetism,fermi				

				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	

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.

PRINCIPAL
Govt. College Pandaria
Distt. Kabirdham (C.G.)