

Dayanand Mahila Mahavidyalaya, Kurukshetra

Lesson Plan (Odd Semester)

Session 2022-23 (01.09.2022 to 24.12.2022)

Name of Teacher.....Mrs Suman Rani.....

SubjectPhysics

Week	Date	ClassB.Sc (NM+CS).....	Class ...B.Sc (NM+ CS)
		Semester - 3rd, Paper 2nd	Semester 3rd,Paper 1
	01.09.2022	Orientation Course	
	02.09.2022	Orientation Course	
	03.09.2022	Interference and it's types,Young double slit experiment.	
	05.09.2022		Computer organisation, Binary representation
	06.09.2022		Algorithm Development
	07.09.2022		Flow chart
	08.09.2022	Coherence and conditions of interference	
	09.09.2022	Fresnel biprism	
	10.09.2022	Determine the wavelength of sodium light	
	12.09.2022		Fortran Preliminaries
	13.09.2022		Built-in Function
	14.09.2022		Executable and non executable statement
	15.09.2022	Thickness of a mica sheet	
	16.09.2022	Lloyds mirror	
	17.09.2022	difference between Biprism and Lloyds mirror fringes	
	19.09.2022		Input and output statement
	20.09.2022		If and Do statement
	21.09.2022		GO to statement
	22.09.2022	Phase change on reflection	
	23.09.2022	Shaheedi Diwas/Haryana War Hero's Martyrdom Day	
	24.09.2022	Revision	
	26.09.2022	Maharaja Agrasen Jayanti	
	27.09.2022		Dimensions arrays
	28.09.2022		Statement function and function subprogram
	29.09.2022	Test	
	30.09.2022	Interference by Division of amplitude	
	01.10.2022	Thin and plane parallel film	
	03.10.2022		Test
	04.10.2022		Print out of natural numbers
	05.10.2022	Dussehra	
	06.10.2022	Interference due to transmitted light	
	07.10.2022	Wedge shaped film	
	08.10.2022	Newton's rings	
	10.10.2022		Range of given numbers
	11.10.2022		Ascending and descending order
	12.10.2022		Mean and standard deviations
	13.10.2022	Michelson's interferometer	
	14.10.2022	Standardization of a meter	
	15.10.2022	Determination of wavelength	
	17.10.2022		Least square fitting of curve
	18.10.2022		Roots of quadratic equations

Week	Date	ClassB.Sc (NM+CS).....	Class ...B.Sc (NM+ CS)
		Semester - 3rd, Paper 2nd	Semester 3rd,Paper 1
	19.10.2022		Product of two matrices
	20.10.2022	Doubt Class	
	21.10.2022	Test	
	22.10.2022 to 26.10.2022		Diwali Vacations
	27.10.2022	Huygens Fresnel theory	
	28.10.2022	Fresnel's assumption	
	29.10.2022	Rectilinear propagation of light	
	31.10.2022	Numerical integration	
	01.11.2022	Haryana Day	
	02.11.2022		Test
	03.11.2022	Fresnel's half period zones	
	04.11.2022	Zone plate	
	05.11.2022	Diffraction at a straight edge	
	07.11.2022		Thermodynamics and Zeroth law of thermodynamics
	08.11.2022	Guru Nanak Dev Jayanti	
	09.11.2022		First law of thermodynamics and reversible and non reversible process
	10.11.2022	Rectangular slit and diffraction at a circular aperture	
	11.11.2022	Diffraction due to a narrow slit	
	12.11.2022	Diffraction due to a narrow wire	
	14.11.2022		Second law of thermodynamics and Carnot theorem
	15.11.2022		Absolute scale of temperature, Absolute zero and Joule's free expansion
	16.11.2022		Joules Thomson effect and Joule's Thomson Experiment
	17.11.2022	Revision	
	18.11.2022	Test	
	19.11.2022	Fraunhofer diffraction	
	21.11.2022		Entropy,T-S diagram
	22.11.2022		Entropy of a perfect gas
	23.11.2022		Nernst heat law
	24.11.2022		
	25.11.2022		
	26.11.2022		
	28.11.2022		Liquification of gases
	29.11.2022		Solidification of He below 4K
	30.11.2022		Cooling by adiabatic demagnetization
	01.12.2022	One slit diffraction	
	02.12.2022	Two slit diffraction	
	03.12.2022	N slit diffraction	
	05.12.2022		Clausius clapeyron and clausius latent heat equations
	06.12.2022		Specific Heat of saturated vapours , phase diagram and triple point of a substance
	07.12.2022		Development of Maxwell thermodynamical equations
	08.12.2022	Plane transmission grating	
	09.12.2022	Dispersive power of grating	

Week	Date	ClassB.Sc (NM+CS).....	Class ...B.Sc (NM+ CS)
		Semester - 3rd, Paper 2nd	Semester 3rd,Paper 1
	10.12.2022	Limit of resolution	
	12.12.2022		U,F,H,G and relation between them
	13.12.2022		Applications of Maxwell relations
	14.12.2022		Variation of intrinsic energy with volume for perfect gas, Vander Wall gas and solids and liquids
	15.12.2022	Rayleigh criterion	
	16.12.2022	Resolving power of telescope	
	17.12.2022	Resolving power of grating	
	19.12.2022		Stefans law, adiabatic compression
	20.12.2022		Deduction of theory of Joule Thomson effect
	21.12.2022		Revision
	22.12.2022	Test	
	23.12.2022	Doubt Class	
	24.12.2022	Doubt Class	

Dayanand Mahila Mahavidyalaya, Kurukshetra

Lesson Plan (Odd Semester)

Session 2022-23 (01.09.2022 to 24.12.2022)

Name of Teacher.....Mrs. Kiran Ganotra.....

SubjectPhysics.....

Week	Date	Class :-B.Sc 3rd year (N.M)	Class :- B.Sc 3rd year (CSc)
		Semester -5th	Semester - 5th
	01.09.2022	Orientation Course	Orientation Course
	02.09.2022	Orientation Course	Orientation Course
	03.09.2022	overview, scale of quantum physics	overview, scale of quantum physics
	05.09.2022	boundary between classical and quantum phenomenon,photon	boundary between classical and quantum phenomenon,photon
	06.09.2022	photoelectric effect	photoelectric effect
	07.09.2022	Compton effect, davisson and German exp.	Compton effect, davisson and German exp.
	08.09.2022	phase velocity, group velocity and their relation	phase velocity, group velocity and their relation
	09.09.2022	Heisenberg uncertainty principle , time, energy and angular momentum	Heisenberg uncertainty principle , time, energy and angular momentum
	10.09.2022	uncertainty principle from de broglie wave, gamma ray microscope	uncertainty principle from de broglie wave, gamma ray microscope
	12.09.2022	electron diffraction from a slit, derivative of time dependant schrodinger wave equation	electron diffraction from a slit, derivative of time dependant schrodinger wave equation
	13.09.2022	Eigen value , Eigen function	Eigen value , Eigen function
	14.09.2022	wave functions and it's significance	wave functions and it's significance
	15.09.2022	orthogonality and normalisation of functions	orthogonality and normalisation of functions
	16.09.2022	concept of observer and operator	concept of observer and operator
	17.09.2022	expectation value of dynamical quantities, probability current density	expectation value of dynamical quantities, probability current density
	19.09.2022	revision	revision
	20.09.2022	Nuclear composition	Nuclear composition
	21.09.2022	mass and binding energy	mass and binding energy
	22.09.2022	systematic of nuclear binding energy, nuclear stability	systematic of nuclear binding energy, nuclear stability
	23.09.2022	Shaheedi Diwas/Haryana War Hero's Martyrdom Day	
	24.09.2022	Nuclear size, spin, parity	Nuclear size, spin, parity
	26.09.2022	Maharaja Agrasen Jayanti	
	27.09.2022	statics, magnetic dipole moment, quadrupole moment	statics, magnetic dipole moment, quadrupole moment
	28.09.2022	determination of mass by bain bridge	determination of mass by bain bridge
	29.09.2022	Bain bridge and Jordan mass spectrograph	Bain bridge and Jordan mass spectrograph
	30.09.2022	determination of charge by mosely law	determination of charge by mosely law
	01.10.2022	determination of size of nucleus by Rutherford back scattering	determination of size of nucleus by Rutherford back scattering
	03.10.2022	revision	revision
	04.10.2022	free particle with one dimensional box	free particle with one dimensional box
	05.10.2022	Dussehra	
	06.10.2022	one dimensional step potential $E > V$ (reflection and transmission coefficient)	one dimensional step potential $E > V$ (reflection and transmission coefficient)
	07.10.2022	one dimensional step potential $E < V$ (penetration depth calculation)	one dimensional step potential $E < V$ (penetration depth calculation)

Week	Date	Class :-B.Sc 3rd year (N.M)	Class :- B.Sc 3rd year (CSc)
		Semester -5th	Semester - 5th
	08.10.2022	one dimensional potential barrier $E > V$ (reflection and transmission coefficient)	one dimensional potential barrier $E > V$ (reflection and transmission coefficient)
	10.10.2022	one dimensional potential barrier $E > V$ (penetration or tunnelling coefficient)	one dimensional potential barrier $E > V$ (penetration or tunnelling coefficient)
	11.10.2022	solution of schrodinger equation for harmonic oscillator	solution of schrodinger equation for harmonic oscillator
	12.10.2022	quantization of energy, zero point energy	quantization of energy, zero point energy
	13.10.2022	wave equation for ground state and excited state	wave equation for ground state and excited state
	14.10.2022	Revision	Revision
	15.10.2022	alpha disintegration and it's theory	alpha disintegration and it's theory
	17.10.2022	energetic of alpha decay	energetic of alpha decay
	18.10.2022	origin of continuous beta spectrum	origin of continuous beta spectrum
	19.10.2022	types of beta - decay and energetic of beta-decay	types of beta - decay and energetic of beta-decay
	20.10.2022	nature of gamma rays, energetic of gamma rays	nature of gamma rays, energetic of gamma rays
	21.10.2022	interaction of heavy, charged particle (alpha particle)	interaction of heavy, charged particle (alpha particle)
	22.10.2022 to 26.10.2022		Diwali Vacations
	27.10.2022	energy loss of heavy charged particle, range and straggling of alpha particles	energy loss of heavy charged particle, range and straggling of alpha particles
	28.10.2022	Geiger - Nuttal law, interaction of light charged particle (beta-particle)	Geiger - Nuttal law, interaction of light charged particle (beta-particle)
	29.10.2022	energy loss of beta-particle (ionization)	energy loss of beta-particle (ionization)
	31.10.2022	range of electrons	range of electrons
	01.11.2022	Haryana Day	
	02.11.2022	interaction of Gamma Ray : passage of gamma radiation through matter	interaction of Gamma Ray : passage of gamma radiation through matter
	03.11.2022	electron - positron annihilation	electron - positron annihilation
	04.11.2022	absorption of gamma rays (mass attenuation coefficient) and its application	absorption of gamma rays (mass attenuation coefficient) and its application
	05.11.2022	Revision	Revision
	07.11.2022	absorption and emission of radiation	absorption and emission of radiation
	08.11.2022	Guru Nanak Dev Jayanti	
	09.11.2022	main features of a laser : directionality, high intensity	main features of a laser : directionality, high intensity
	10.11.2022	high degree of coherence, spatial and temporal coherence	high degree of coherence, spatial and temporal coherence
	11.11.2022	Einstein's coefficient and possibility of amplification, momentum transfer	Einstein's coefficient and possibility of amplification, momentum transfer
	12.11.2022	life of a level, kinetics of optical absorption (fuchbauer landerburg formula)	life of a level, kinetics of optical absorption (fuchbauer landerburg formula)
	14.11.2022	line shape function	line shape function
	15.11.2022	line broadening mechanism population inversion : A necessary condition for light amplification	line broadening mechanism population inversion : A necessary condition for light amplification
	16.11.2022	resonance cavity, laser pumping	resonance cavity, laser pumping

Week	Date	Class :-B.Sc 3rd year (N.M)	Class :- B.Sc 3rd year (CSc)
		Semester -5th	Semester - 5th
	17.11.2022	threshold condition for laser emission	threshold condition for laser emission
	18.11.2022	revision	revision
	19.11.2022	linear accelerator	linear accelerator
	21.11.2022	tendon accelerator	tendon accelerator
	22.11.2022	cyclotron	cyclotron
	23.11.2022	betatron	betatron
	24.11.2022	ionization chamber, proportional counter	ionization chamber, proportional counter
	25.11.2022	G.M Counter	G.M Counter
	26.11.2022	Seintillation counter	Seintillation counter
	28.11.2022	semiconductor detector	semiconductor detector
	29.11.2022	Revision	Revision
	30.11.2022	He- Ne laser	He- Ne laser
	01.12.2022	Ruby laser	Ruby laser
	02.12.2022	optical properties of semiconductor	optical properties of semiconductor
	03.12.2022	semiconductor laser	semiconductor laser
	05.12.2022	application of laser	application of laser
	06.12.2022	different fields of medicine and industry using laser	different fields of medicine and industry using laser
	07.12.2022	revision	revision
	08.12.2022	nuclear reactions	nuclear reactions
	09.12.2022	elastic scattering	elastic scattering
	10.12.2022	inelastic scattering	inelastic scattering
	12.12.2022	nuclear disintegration, photo nuclear reactions	nuclear disintegration, photo nuclear reactions
	13.12.2022	radiative capture direct - reactions	radiative capture direct - reactions
	14.12.2022	heavy ion reactions and spallation reactions	heavy ion reactions and spallation reactions
	15.12.2022	conservation laws, Q- value and reaction Threshold	conservation laws, Q- value and reaction Threshold
	16.12.2022	nuclear reactor, general aspects of reactor design	nuclear reactor, general aspects of reactor design
	17.12.2022	nuclear fission	nuclear fission
	19.12.2022	nuclear fusion	nuclear fusion
	20.12.2022	revision	revision
	21.12.2022	revision	revision
	22.12.2022		
	23.12.2022		
	24.12.2022		

Dayanand Mahila Mahavidyalaya, Kurukshetra

Lesson Plan (Odd Semester)

Session 2022-23 (01.09.2022 to 24.12.2022)

Name of Teacher.....Sonal Vats.....

SubjectPhysics.....

Week	Date	ClassB.sc 1st.....	ClassB.sc 1st.....
		Semester - I	Semester ...1.....
	01.09.2022	Orientation Course	
	02.09.2022	Orientation Course	
	03.09.2022	Gradient of scalar and it's physical significance	
	05.09.2022	line , surface and volume integral of vector and their physical significance	
	06.09.2022	Divergence and curl of a vector and their physical significance	
	07.09.2022		Mechanics of single and system of particles
	08.09.2022		Conservation laws of linear momentum
	09.09.2022		Conservation laws of angular momentum and mechanical energy for particle and system of particles
	10.09.2022	gauss divergence theorem , stokes theorem	
	12.09.2022	Derivations of EF from potential as gradient	
	13.09.2022	Derivation of Laplace and Poisson equations	
	14.09.2022		Centre of mass and equation of motion
	15.09.2022		Constrained motion
	16.09.2022		Revision of unit 1
	17.09.2022	Electric flux, gauss law	
	19.09.2022	Revision	
	20.09.2022	Magnetic induction, magnetic flux and their properties	
	21.09.2022		Test of unit 1
	22.09.2022		Degree of freedom
	23.09.2022		
	24.09.2022		Generalized coordinates
	26.09.2022	Maharaja Agrasen Jayanti	
	27.09.2022		Generalized displacement, velocity
	28.09.2022	Electronic theory of paramagnetic and diamagnetic	
	29.09.2022	Langevins theory, Hysteresis loop	
	30.09.2022	Importance of BH curve	
	01.10.2022		Generalized acceleration and momentum
	03.10.2022		Force and potential
	04.10.2022		Hamilton variable principle
	05.10.2022	Dussehra	
	06.10.2022	Revision	
	07.10.2022	Maxwell equations and their derivations	
	08.10.2022	Displacement current, vector and scalar potential	

Week	Date	ClassB.sc 1st.....	ClassB.sc 1st.....
		Semester - I	Semester ...1.....
	10.10.2022		Lagrange equation of motion from Hamilton principle Linear harmonic oscillator
	11.10.2022		Simple pendulum
	12.10.2022		Atwoods machine
	13.10.2022	Boundary conditions	
	14.10.2022	Propagation of EM waves	
	15.10.2022	Poynting vector and poynting theorem	
	17.10.2022		revision of unit 2
	18.10.2022		Test of unit 2
	19.10.2022		Frame of reference
	20.10.2022	Revision of unit 3	
	21.10.2022	Test of unit 1	
	22.10.2022 to 26.10.2022		Diwali Vacations
	27.10.2022	Test of unit 2 and 3	
	28.10.2022		limitations of Newtons law of motion, Ine
	29.10.2022		Galilean transformation
	31.10.2022		Frame of reference with linear acceleration
	01.11.2022	Haryana Day	
	02.11.2022	AC circuit analysis using complex variable	
	03.11.2022	CR circuit	
	04.11.2022	LR circuit	
	05.11.2022	LC circuit	
	07.11.2022		Classical relativity galilean invariance
	08.11.2022	Guru Nanak Dev Jayanti	
	09.11.2022		Transformation equations , non Inertial fra
	10.11.2022		Fundamental frame of reference
	11.11.2022	LCR circuit	
	12.11.2022	Series and parallel resonant circuit	
	14.11.2022	Quality factor	
	15.11.2022		Michelson Morley experiment
	16.11.2022		Revision of unit 3
	17.11.2022		Test of unit 3
	18.11.2022	Revision of unit 4	
	19.11.2022	Test of unit 4	
	21.11.2022		Special theory of relativity
	22.11.2022		Lorentz coordinate and physical significance
	23.11.2022		Length contraction, time dilation
	24.11.2022		Twin paradox, velocity addition theorem
	25.11.2022		Mass energy equivalence, transformation
	26.11.2022		Relationship between momentum and ene
	28.11.2022		Energy of zero rest Mass
	29.11.2022		revision of unit 4
	30.11.2022		Test of unit 4
	01.12.2022	Revision of unit 1	
	02.12.2022	Revision of unit 1	
	03.12.2022	Test of unit 1	
	05.12.2022		Revision of unit 1
	06.12.2022		Revision of unit 1
	07.12.2022		Test of unit 1
	08.12.2022	Revision of unit 2	
	09.12.2022	Revision of unit 2	
	10.12.2022	Test of unit 2	

Week	Date	ClassB.sc 1st.....	ClassB.sc 1st.....
		Semester - I	Semester ...1.....
	12.12.2022		revision of unit 2
	13.12.2022		Revision of unit 2
	14.12.2022		Test of unit 2
	15.12.2022	Revision of unit 3	
	16.12.2022	Revision of unit 3.	
	17.12.2022	Test of unit 3	
	19.12.2022		Revision of unit 3
	20.12.2022		Revision of unit 3
	21.12.2022		Test of unit 3
	22.12.2022	Revision of unit 4	
	23.12.2022	Revision of unit 4	
	24.12.2022	Test of unit 4	

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