

KVA DAV College for Women, Karnal

Lesson Plan for the Odd Semester, 2023

(August - December)

Name of the Teacher – Ms.VANDANA

Class- B.Sc. -III (5th Sem)

Subject- Quantum and Laser physics

Paper- PH-501

August, 2023 1 st Week 1 Aug - 5 Aug	Overview, scale of quantum physics, boundary between classical and quantum phenomena, Photon, Photoelectric effect
6 Aug, 2023	Sunday
2 nd Week 7 Aug - 12 Aug	Compton effect (theory and result), Frank-Hertz experiment, de-Broglie hypothesis. Davisson and Germer experiment, G.P.Thomson experiment..
13 Aug, 2023	Sunday
3 rd Week 14 Aug-19 Aug	Phase velocity, group velocity and their relation
15 Aug, 2023 20 Aug, 2023	Independence Day Sunday
4 th Week 21 Aug - 26 Aug	Heisenberg's uncertainty principle. Time energy and angular momentum, position uncertainty. Uncertainty principle from de Broglie wave. (Wave-particle duality Gamma Ray Microscope, Electron diffraction from a slit.).
27 Aug, 2023	Sunday
5 th Week 28 Aug - 31Aug	Derivation of 1-D time-dependent Schrodinger wave equation (subject to force, free particle Time-independent Schrodinger wave equation, Eigen values, Eigen functions, wave functions and its Significance.
30 Aug, 2023	Raksha Bandhan

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Subject- Quantum and Laser Physics

Paper- PH-501

3 Sept, 2023	Sunday
2nd Week 4 Sept - 9 Sept	Orthogonality and Normalization of function, concept of observer and Operator. Expectation values of dynamical quantities, probability current density Revision and Class Test
5 Sept, 2023 7 Sept, 2023 10 Sept, 2023	Talent Show Janmastami Sunday
3rd Week 11 Sept-16 Sept	Unit II: Application of Schrodinger wave equation: Free particle in one-dimensional box (solution of Schrodinger wave equation, Eigen functions, Eigen values, quantization of energy and momentum, nodes and anti nodes, zero point energy). ii) One dimensional step potential $E > V_0$ (Reflection and Transmission coefficient) (iii) One dimensional step potential $E < V_0$ (penetration depth calculation).
17 Sept, 2023	Sunday
4th Week 18 Sept - 22 Sept	iv) One dimensional potential barrier, $E > V_0$ (Reflection and Transmission coefficient) (v) One-dimensional potential barrier, $E < V_0$ (penetration or tunneling coefficient).
23 Sept, 2023 24 Sept, 2023 25 Sept, 2023	Shaheed Divas/Haryana War Heroes' Martyrdom Day Sunday Annual Prize Distribution Function
5th Week 26 Sept - 30 Sept	(vi) Solution of Schrodinger equation for harmonic oscillator (quantization of energy, Zero-point energy, wave equation for ground state and excited states).

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Subject- Quantum and laser Physics

Paper- PH-501

October, 2023 1 Oct, 2023 2 Oct, 2023	Sunday Mahatama Gandhi Jayanti
1st Week 3 Oct – 7 Oct	Unit III: Laser Physics –I Absorption and emission of radiation, Main features of a laser: Directionality, high intensity
8 Oct, 2023	Sunday
2nd Week 9 Oct - 14 Oct	high degree of coherence, spatial and temporal coherence, Einstein's coefficients and possibility of amplification, momentum transfer, life time of a level,
15 Oct, 2023	Maharaja Agrasen Jayanti, Sunday
3rd Week 16 Oct - 21 Oct	kinetics of optical absorption ((two and three level rate equation, Fuchbauer landerburg formula) population inversion: A necessary condition for light amplification, resonance cavity, laser pumping,
22 Oct, 2023	Sunday
4th Week 23 Oct – 27 Oct	Line broadening mechanism, homogeneous and inhomogeneous line broadening (natural, collision and Doppler broadening).
24 Oct, 2023 28 Oct, 2023 29 Oct, 2023	Dussehra Maharishi Valmiki Jayanti Sunday
5th Week 30 Oct – 31 Oct	Threshold condition for laser emission. Revision
25 Oct – 4 Nov, 2023	Sessional Exams

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Paper- PH-501

November, 2023 1st Week 1 Nov, 2023 5 Nov, 2023	Haryana Day Sunday
2nd Week 6 Nov – 9 Nov	Unit IV: Laser Physics – II He-Ne laser and RUBY laser (Principle, Construction and working), Optical properties of semiconductor, Semiconductor laser (Principle, Construction and working)
10 Nov - 16 Nov , 2023	Diwali Break
19 Nov, 2023	Sunday
4th Week 20 Nov - 24 Nov	Applications of lasers in the field of medicine and industry. Revision and Class Test
5th Week 25 Nov, 2023 Onwards	University Examination

KVA DAV College for Women, Karnal

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Ms. VANDANA

Class- B.Sc.-II (3rd Sem)

Subject- Wave and Optics

Paper- PH-302

August, 2023 1 st Week 1 Aug - 5 Aug	Unit 1: Interference I Interference by Division of wave front, Young's double slit experiment, Coherence, conditions of Interference ,
6 Aug, 2023	Sunday
2 nd Week 7 Aug - 12 Aug	Fresnel's biprism and its applications to determination of wavelength of sodium light and thickness of a mica sheet
13 Aug, 2023	Sunday
3 rd Week 14 Aug-19 Aug	Lloyd's mirror Difference between Bi-prism and Lloyd's mirror fringes, phase change on reflection Class Test
15 Aug, 2023 20 Aug, 2023	Independence Day Sunday
4 th Week 21 Aug - 26 Aug	Unit 2: Interference II Interference by division of Amplitude, thin films, plane parallel film
27 Aug, 2023	Sunday
5 th Week 28 Aug - 31Aug	Interference due to transmitted light, wedge shaped film
30 Aug, 2023	Raksha Bandhan

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Subject- Wave and Optics

Paper- PH-302

3 Sept, 2023	Sunday
2nd Week 4 Sept - 9 Sept	Newton's rings,
5 Sept, 2023 7 Sept, 2023 10 Sept, 2023	Talent Show Janmastami Sunday
3rd Week 11 Sept-16 Sept	Interferometers; Michelson interferometer and its applications to 1)standardization of a meter 2)determination of wavelength
17 Sept, 2023	Sunday
4th Week 18 Sept - 22 Sept	Revision of unit 2 Unit- 3: Diffraction I Huygens's Fresnel's diffraction:
23 Sept, 2023 24 Sept, 2023 25 Sept, 2023	Shaheed Divas/Haryana War Heroes' Martyrdom Day Sunday Annual Prize Distribution Function
5th Week 26 Sept - 30 Sept	Fresnel's assumptions and half period zones, rectilinear propagation of light

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Paper- PH-302

October, 2023 1 Oct , 2023 2 Oct, 2023	Sunday Mahatama Gandhi Jayanti
1 st Week 3 Oct – 7 Oct	zone plate, diffraction at a straight edge, rectangular slit and circular aperture
8 Oct, 2023	Sunday
2 nd Week 9 Oct - 14 Oct	diffraction due to a narrow slit and wire Revision of Unit 3 Unit -4: Diffraction II Fraunhoffer diffraction
15 Oct, 2023	Maharaja Agrasen Jayanti, Sunday
3 rd Week 16 Oct - 21 Oct	: single-slit diffraction Fraunhoffer diffraction :double-slit diffraction-slit diffraction,
22 Oct, 2023	Sunday
4 th Week 23 Oct – 27 Oct	plane transmission grating spectrum, dispersive power of grating, limit of resolution,
24 Oct, 2023 28 Oct, 2023 29 Oct, 2023	Dussehra Maharishi Valmiki Jayanti Sunday
25 Oct – 4 Nov, 2023	Sessional Exams

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Paper- PH-302

November, 2023 1st Week 1 Nov, 2023 5 Nov, 2023	Haryana Day Sunday
2nd Week 6 Nov – 9 Nov	Rayleigh's criterion, resolving power of telescope and a grating, Differences between Prism and grating spectra
10 Nov - 16 Nov , 2023	Diwali Break
19 Nov, 2023	Sunday
4th Week 20 Nov - 24 Nov	Revision
5th Week 25 Nov, 2023 Onwards	University Examination

KVA DAV College for Women, Karnal

Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Ms. PRIYA KAMBOJ

Class- B.Sc.-I (1st Sem)

Subject- Mechanics

Paper- B23-PHY-101

August, 2023 1 st Week 1 Aug - 5 Aug	Unit-I Fundamentals of Dynamics: Rigid body, Moment of Inertia, Radius of Gyration, Theorems of perpendicular and parallel axis (with proof)
6 Aug, 2023	Sunday
2nd Week 7 Aug - 12 Aug	Moment of Inertia of ring, Disc, Angular Disc, Solid cylinder, Solid sphere, Hollow sphere
13 Aug, 2023	Sunday
3rd Week 14 Aug-19 Aug	Rectangular plate, Square plate, Solid cone, Triangular plate, Torque, Rotational Kinetic Energy, Angular momentum, Law of conservation of angular momentum.
15 Aug, 2023 20 Aug, 2023	Independence Day Sunday
4th Week 21 Aug - 26 Aug	Rolling motion, condition for pure rolling, acceleration of body rolling down an inclined plane, Fly wheel, Moment of Inertia of an irregular body.
27 Aug, 2023	Sunday
5th Week 28 Aug - 31Aug	Classtest Unit-II Elasticity: Deforming force, Elastic limit, stress, strain and their types, Hooke's law, Modulus of rigidity
30 Aug, 2023	Raksha Bandhan

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Lesson Plan for the Odd Semester, 2023 (August - December)

Name of the Teacher – Ms. PRIYA KAMBOJ

Class- B.Sc.-I (1st Sem)

Subject- Mechanics

Paper- B23-PHY-101

September, 2023 1 st Week 1 Sept - 2 Sept	Relation between shear angle and angle of twist, elastic energy stored/volume in an elastic body
3 Sept, 2023	Sunday
2 nd Week 4 Sept - 9 Sept	Elongation produced in heavy rod due to its own weight and elastic potential energy stored in it, Tension in rotating rod, Poisson's ratio and its limiting value
5 Sept, 2023 7 Sept, 2023 10 Sept, 2023	Talent Show Janmastami Sunday
3 rd Week 11 Sept-16 Sept	Elastic Constants and their relations. Torque required for twisting cylinder, Hollow shaft is stiffer than solid one Bending of beam, bending moment and its magnitude, Flexural rigidity, Geometrical moment of inertia for beam of rectangular cross-section and circular cross-section
17 Sept, 2023	Sunday
4 th Week 18 Sept - 22 Sept	Bending of cantilever (loaded by a weight W at its free end), weight of cantilever uniformly distributed over its entire length.
23 Sept, 2023 24 Sept, 2023 25 Sept, 2023	Shaheed Divas/Haryana War Heroes' Martyrdom Day Sunday Annual Prize Distribution Function
5 th Week 26 Sept - 30 Sept	Dispersion of a centrally loaded beam supported at its ends, determination of elastic constants for material of wire by Searle's method. Revision and class test

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(August - December)

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Class- B.Sc.-I (1st Sem)

Subject- Mechanics

Paper- B23-PHY-101

October, 2023 1 Oct , 2023 2 Oct, 2023	Sunday Mahatama Gandhi Jayanti
1st Week 3 Oct – 7 Oct	Unit-III Special Theory of Relativity: Michelson’s Morley experiment and its outcomes, Postulates of special theory of relativity, Lorentz Transformations, Simultaneity and order of events
8 Oct, 2023	Sunday
2nd Week 9 Oct - 14 Oct	Lorentz contraction, Time dilation, Relativistic transformation of velocity, relativistic addition of velocities, variation of mass-energy equivalence
15 Oct, 2023	Maharaja Agrasen Jayanti, Sunday
3rd Week 16 Oct - 21 Oct	relativistic Doppler effect, relativistic kinematics, transformation of energy and momentum, transformation of force, Problems of relativistic dynamics.
22 Oct, 2023	Sunday
4th Week 23 Oct – 27 Oct	Unit-IV Gravitation and central force motion: Law of gravitation, Potential and field due to spherical shell and solid sphere
24 Oct, 2023 28 Oct, 2023 29 Oct, 2023	Dussehra Maharishi Valmiki Jayanti Sunday
25 Oct – 4 Nov, 2023	Sessional Exams

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Name of the Teacher – Ms. PRIYA KAMBOJ

Class- B.Sc.-I (1st Sem)

Subject- Mechanics

Paper-B23-PHY-101

November, 2023 1st Week 1 Nov, 2023 5 Nov, 2023	Haryana Day Sunday
2nd Week 6 Nov – 9 Nov	Motion of a particle under central force field, Two body problem and its reduction to one body problem and its solution, compound pendulum or physical pendulum in form of elliptical lamina and expression of time period,
10 Nov - 16 Nov , 2023	Diwali Break
3rd Week 17 Nov - 18 Nov	determination of g by means of bar pendulum, Normal coordinates and normal modes, Normal modes of vibration for given spring mass system,
19 Nov, 2023	Sunday
4th Week 20 Nov - 24 Nov	Possible angular frequencies of oscillation of two identical simple pendulums of length (l) and small bob of mass (m_0) joined together with spring of spring constant (k). Revision
5th Week 25 Nov, 2023 Onwards	University Examination

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Lesson Plan for the Odd Semester, 2023

(August - December)

Name of the Teacher – Dr. RICHA KHOKHRA

Class- B.Sc.-III (5th Sem)

Subject- Nuclear Physics

Paper- PH-502

August, 2023 1 st Week 1 Aug - 5 Aug	Unit I: Nuclear Structure and Properties of Nuclei Nuclear composition (p-e and p-n hypotheses),
6 Aug, 2023	Sunday
2 nd Week 7 Aug - 12 Aug	Nuclear properties; Nuclear size, spin, parity, Statistics, magnetic dipole moment, quadruple moment (shape concept).
13 Aug, 2023	Sunday
3 rd Week 14 Aug-19 Aug	Determination of mass by Bain-Bridge, Bain-Bridge and Jordan mass spectrograph. Determination of charge by Mosley Law,
15 Aug, 2023 20 Aug, 2023	Independence Day Sunday
4 th Week 21 Aug - 26 Aug	Determination of size of nuclei by Rutherford. Back Scattering. mass and binding energy, systematic of nuclear binding energy, nuclear stability Revision
27 Aug, 2023	Sunday
5 th Week 28 Aug - 31Aug	Unit II: Nuclear Radiation decay Processes Alpha-disintegration and its theory. Energetics of alpha-decay
30 Aug, 2023	Raksha Bandhan

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(August - December)

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Class- B.Sc.-III (5th Sem)

Subject- Nuclear Physics

Paper- PH-502

3 Sept, 2023	Sunday
2nd Week 4 Sept - 9 Sept	Origin of continuous beta Spectrum (neutrino hypothesis), types of beta-decay and energetics of beta-decay. Nature Of gamma rays, Energetics of gamma rays.
5 Sept, 2023 7 Sept, 2023 10 Sept, 2023	Talent Show Janmastami Sunday
3rd Week 11 Sept-16 Sept	Radiation interaction: Interaction of heavy charged particles (Alpha particles) Energy loss of heavy charged particle (idea of Bethe formula, no derivation), Range and straggling of alpha particles, Geiger-Nuttal law.
17 Sept, 2023	Sunday
4th Week 18 Sept - 22 Sept	Interaction of light charged particle (Beta-particle), Energy loss of Beta-particles (ionization), Range of electrons, absorption of beta-particles. Interaction of Gamma Ray,
23 Sept, 2023 24 Sept, 2023 25 Sept, 2023	Shaeedi Divas/Haryana War Heroes' Martyrdom Day Sunday Annual Prize Distribution Function
5th Week 26 Sept - 30 Sept	Passage of Gamma radiations through matter (Photoelectric, Compton and pair production effect), electron-positron annihilation. Absorption of Gamma rays (Mass Attenuation coefficient) and its application

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Paper- PH-502

October, 2023 1 Oct, 2023 2 Oct, 2023	Sunday Mahatama Gandhi Jayanti
1st Week 3 Oct – 7 Oct	Revision Unit III: Nuclear Accelerators Linear accelerator, Tandem accelerator, Cyclotron and Betatron accelerators.
8 Oct, 2023	Sunday
2nd Week 9 Oct - 14 Oct	Nuclear Radiation Detectors. Gas filled counters; Ionization chamber, proportional counter, Scintillation counter
15 Oct, 2023	Maharaja Agrasen Jayanti, Sunday
3rd Week 16 Oct - 21 Oct	G.M. Counter (detailed study), and semiconductor detector Revision and Class Test
22 Oct, 2023	Sunday
4th Week 23 Oct – 27 Oct	Unit IV: Nuclear reactions. Nuclear reactions, Elastic scattering, Inelastic scattering, Nuclear disintegration, Photonuclear reaction, Radiative capture, Direct reaction, Heavy ion reactions and Spallation Reactions,
24 Oct, 2023 28 Oct, 2023 29 Oct, 2023	Dussehra Maharishi Valmiki Jayanti Sunday
25 Oct – 4 Nov, 2023	Sessional Exams

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Subject- Nuclear Physics

Paper- PH-502

November, 2023 1st Week 1 Nov, 2023 5 Nov, 2023	Haryana Day Sunday
2nd Week 6 Nov – 9 Nov	Conservation laws, Q-value and reaction threshold. Revision and Class Test
10 Nov - 16 Nov , 2023	Diwali Break
19 Nov, 2023	Sunday
4th Week 20 Nov - 24 Nov	Nuclear Reactors: Nuclear Reactors, General aspects of Reactor Design, Nuclear fission and fusion reactors (Principle, construction, working and use). Revision
5th Week 25 Nov, 2023 Onwards	University Examination

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Lesson Plan for the Odd Semester, 2023

(August - December)

Name of the Teacher – Dr. RICHA KHOKHRA

Class- B.Sc.-II (3rd Sem)

Subject- Computer Programming and Thermodynamics

Paper- PH-301

August, 2023 1 st Week 1 Aug - 5 Aug	UNIT-1: Computer Programming Computer organization, binary representation,
6 Aug, 2023 2 nd Week 7 Aug - 12 Aug	Sunday Algorithm development, Flow-chart and their interpretation. FORTRAN preliminaries: integer and floating points arithmetic expression built-in-function, executable and non-executable statement , input and output statements
13 Aug, 2023 3 rd Week 14 Aug-19 Aug	Sunday Formats, IF, Do and Go To statements, dimension arrays,
15 Aug, 2023 20 Aug, 2023	Independence Day Sunday
4 th Week 21 Aug - 26 Aug	Statements function and function subprogram. UNIT –2: Applications of FORTRAN programming Algorithm, Flow Chart and Programming for Print out of natural numbers, Range of the set of given numbers, Ascending and descending order, Mean and standard deviation,
27 Aug, 2023 5 th Week 28 Aug - 31Aug	Sunday Least square fitting of curve, Roots of quadratic equation. Product of two matrices, Numerical integration (Trapezoidal rule and Simpson 1/3 rule).
30 Aug, 2023	Raksha Bandhan

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Class- B.Sc.-II (3rd Sem)

Subject- Computer Programming and Thermodynamics

Paper- PH-301

3 Sept, 2023	Sunday
2nd Week 4 Sept - 9 Sept	UNIT-3: Thermodynamics-I Thermodynamic system and Zeroth law of thermodynamics .First law of thermodynamics and its limitations, reversible and irreversible process.
5 Sept, 2023 7 Sept, 2023 10 Sept, 2023	Talent Show Janmastami Sunday
3rd Week 11 Sept-16 Sept	Second law of thermodynamics and its significance ,Carnot theorem, Absolute scale of temperature , Absolute zero and magnitude of each division on work scale and perfect gas scale ,
17 Sept, 2023	Sunday
4th Week 18 Sept - 22 Sept	Joule free expansion, joule Thomson effect, joule Thomson (Porous Plug) experiment , conclusions and explanation,
23 Sept, 2023 24 Sept, 2023 25 Sept, 2023	Shaeeedi Divas/Haryana War Heroes' Martyrdom Day Sunday Annual Prize Distribution Function
5th Week 26 Sept - 30 Sept	Analytical treatment of Joule Thomson effect. Class Test

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Subject- Computer Programming and Thermodynamics

Paper- PH-301

October, 2023 1 Oct , 2023 2 Oct, 2023	Sunday Mahatama Gandhi Jayanti
1st Week 3 Oct – 7 Oct	Entropy , calculations of entropy of reversible and irreversible process , T-S diagram
8 Oct, 2023	Sunday
2nd Week 9 Oct - 14 Oct	entropy of perfect gas, Nernst heat law (Third law of thermodynamics) Liquefaction of gases (oxygen , air, hydrogen and helium),
15 Oct, 2023	Maharaja Agrasen Jayanti, Sunday
3rd Week 16 Oct - 21 Oct	Solidification of He below 4K ,Cooling by adiabatic demagnetization UNIT-4: Thermodynamics-II Derivation of Clausius-Clapeyron and Clausius latent heat equation and their significance, specific heat of saturated vapours,
22 Oct, 2023	Sunday
4th Week 23 Oct – 27 Oct	Phase diagram and triple point of a substance, development of Maxwell thermodynamical relations. Thermodynamical functions: Internal energy (U), Helmholtz function (F), Enthalpy (H), Gibbs function (G) and the relations between them,
24 Oct, 2023 28 Oct, 2023 29 Oct, 2023	Dussehra Maharishi Valmiki Jayanti Sunday
5th Week 30 Oct – 31 Oct	derivation of Maxwell thermodynamical relations from thermodynamical functions, Application of Maxwell relations: relations between two specific heats of gas, Derivation of Clausius-Clapeyron and Clausius equation,
25 Oct – 4 Nov, 2023	Sessional Exams

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Paper- PH-301

November, 2023 1st Week 1 Nov, 2023 5 Nov, 2023	Haryana Day Sunday
2nd Week 6 Nov – 9 Nov	Variation of intrinsic energy with volume for (i) perfect gas (ii) Vander wall gas (iii) solids and liquids Revision and Class Test
10 Nov - 16 Nov , 2023	Diwali Break
19 Nov, 2023	Sunday
4th Week 20 Nov - 24 Nov	Derivation of Stefan's law, adiabatic compression and expansion of gas & deduction of theory of Joule Thomson effect. Revision and Class test
5th Week 25 Nov, 2023 Onwards	University Examination