

KVA DAV College for Women, Karnal

Lesson Plan for the Odd Semester (September to December, 2022)

Name of the Teacher –Ms. Meenu Sharma

Class- B.Sc-First Year (1st SEM)

Subject- Classical Mechanics and Theory of Relativity

Paper- PH-101

September, 2022 1 st Week 1 Sept-3 Sept	Unit 1: Basic concepts of Classical mechanics Mechanics of single and system of particles, Conservation law of linear momentum
4 Sept, 2022	Sunday
2 nd Week 5 Sept- 10 Sept	Conservation law of Angular momentum and mechanical energy for a particle and a system of particles,
11 Sept, 2022	Sunday
3 rd Week 12 Sept-17 Sept	Centre of Mass and equation of motion Constrained Motion, Numerical problems and Revision
18 Sept, 2022	Sunday
4 th Week 19 Sept-24 Sept	Unit2: Generalized Notations Degrees of freedom and Generalized coordinates, Transformation equations, Generalized Displacement
23 Sept,2022 25 Sept, 2022 26 Sept, 2022	Shaheedi Divas/ Haryana War Heroes' Martyrdom Day Sunday Maharana Agrasen Jayanti
5 th Week 27 Sept - 29 Sept	Generalized Velocity, Acceleration, Momentum, Force and Potential, Hamilton's variational principle
30 Sept, 2022	Talent show

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Class- B.Sc-First Year (1st SEM)

Subject- Classical Mechanics and Theory of Relativity

Paper- PH-101

October, 2022 1 st Week 1 Oct,2022	Talent Show Holiday
2 Oct, 2022	Sunday
1 st Week 3 Oct - 8 Oct	Lagrange's equation of motion from Hamilton's principle, Linear Harmonic oscillator, Simple pendulum, Atwood's machine. Numerical problems and Revision.
5 Oct,2022 9 Oct,2022	Dussehra Sunday
2 nd Week 10 Oct - 15 Oct	Unit 3: Theory of relativity Frame of reference, limitation of Newton's law of motion, Inertial frame of reference, Galilean transformation, Frame of reference with linear acceleration
13 Oct, 2022 16 Oct,2022	Karwa Chauth Sunday
3 rd Week 17 Oct - 21 Oct	Classical relativity-Galilean invariance, Transformation equation for a frame of reference- inclined to an inertial frame and Rotating frame of reference,
22 Oct - 26 Oct	Diwali Break
4 th Week 27 Oct - 31 Oct	Non-inertial frames-The accelerated frame of reference and Rotating frame of reference, Numerical and short Answers
30 Oct, 2022	Sunday

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Class- B.Sc-First Year (1st SEM)

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Paper- PH-101

November, 2022 1 st Week 1 Nov, 2022	Haryana Day
1 st Week 2 Nov - 5 Nov	Effect of centrifugal and coriolis forces due to Earth's rotation, Fundamental frame of reference, Michelson- Morley's experiment, concept of Einstein's relativity.
6 Nov, 2022	Sunday
2 nd Week 7 Nov – 12 Nov	Unit 4: Applications of theory of relativity Special theory of relativity, Lorentz co-ordinate and physical significance of Lorentz invariance
8 Nov,2022 13 Nov, 2022	Sh. Guru Nanak Dev jayanti Sunday
3 rd Week 14 Nov - 19 Nov	Length Contraction, Time Dilation, Twin Paradox, Velocity addition theorem,
20 Nov, 2022	Sunday
4 th Week 21 Nov - 26 Nov	Variation of mass with velocity, Mass energy equivalence, Transformation of relativistic momentum and energy, relation between relativistic momentum and energy,
27 Nov, 2022	Sunday
5 th Week 28 Nov – 3 Dec	Sessional Exams
4 Dec, 2022	Sunday
2 nd Week 5 Dec - 10 Dec	Mass, velocity, momentum and energy of zero rest mass. Numerical problems and Revision.
3 rd Week 15 Dec,2022 Onwards	University Examination

KVA DAV College for Women, Karnal

Lesson Plan for the Odd Semester (September to December, 2022)

Name of the Teacher – Ms. Meenu Sharma

Class- B.Sc. Second Year (3rd SEM)

Subject- Wave and Optics

Paper- PH-302

September, 2022 1 st Week 1 Sept-3 Sept	Unit 1: Interference I Interference by Division of wave front, Young's double slit experiment,
4 Sept, 2022	Sunday
2 nd Week 5 Sept- 10 Sept	Coherence, conditions of Interference.
11 Sept, 2022	Sunday
3 rd Week 12 Sept-17 Sept	Fresnel's biprism and its applications to determination of wavelength of sodium light and thickness of a mica sheet
18 Sept, 2022	Sunday
4 th Week 19 Sept-24 Sept	Lloyd's mirror Difference between Bi-prism and Lloyd's mirror fringes, phase change on reflection Class Test
23 Sept, 2022 25 Sept, 2022 26 Sept, 2022	Shaheedi Divas/ Haryana War Heroes' Martyrdom Day Sunday Maharana Agrasen Jayanti
5 th Week 27 Sept - 29 Sept	Unit 2: Interference II Interference by division of Amplitude, thin films, plane parallel film
30 Sept, 2022	Talent show

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Lesson Plan for the Odd Semester (September to December, 2022)

Name of the Teacher – Ms. Meenu Sharma

Class- B.Sc. Second Year (3rd SEM)

Subject- Wave and Optics

Paper- PH-302

October, 2022 1 st Week 1 Oct,2022	Talent Show Holiday
2 Oct, 2022	Sunday
1 st Week 3 Oct - 8 Oct	Revision of Unit 1 Interference due to transmitted light, wedge shaped film
5 Oct,2022 9 Oct,2022	Dussehra Sunday
2 nd Week 10 Oct - 15 Oct	Newton's rings, Interferometers; Michelson interferometer and its applications to 1)standardization of a meter 2)determination of wavelength
13 Oct, 2022 16 Oct,2022	Karwa Chauth Sunday
3 rd Week 17 Oct - 21 Oct	Revision of unit 2 Unit- 3: Diffraction I Huygens's Fresnel's diffraction: Fresnel's assumptions and half period zones, rectilinear propagation of light
22 Oct - 26 Oct	Diwali Break
4 th Week 27 Oct - 31 Oct	zone plate, diffraction at a straight edge, rectangular slit and circular aperture
30 Oct, 2022	Sunday

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Class- B.Sc. Second Year (3rd SEM)

Subject- Wave and Optics

Paper- PH-302

November, 2022 1 st Week 1 Nov, 2022	Haryana Day
1 st Week 2 Nov - 5 Nov	diffraction due to a narrow slit and wire Revision of Unit 3
6 Nov, 2022	Sunday
2 nd Week 7 Nov – 12 Nov	Unit -4: Diffraction II Fraunhofer diffraction: single-slit diffraction
8 Nov,2022 13 Nov, 2022	Sh. Guru Nanak Dev jayanti Sunday
3 rd Week 14 Nov - 19 Nov	Fraunhofer diffraction :double-slit diffraction-slit diffraction, plane transmission grating spectrum,
20 Nov, 2022	Sunday
4 th Week 21 Nov - 26 Nov	dispersive power of grating, limit of resolution, Rayleigh's criterion
27 Nov, 2022	Sunday
5 th Week 28 Nov – 3 Dec	Sessional Exams
4 Dec, 2022	Sunday
2 nd Week 5 Dec - 10 Dec	resolving power of telescope and a grating. Differences between Prism and grating spectra. Revision of unit 4
3 rd Week 15 Dec,2022 Onwards	University Examination

KVA DAV College for Women, Karnal

Lesson Plan for the Odd Semester (September to December, 2022)

Name of the Teacher – Ms. Vandana
Class- B.Sc-First Year (1st SEM)
Subject- Electricity, Magnetism and EMT
Paper- PH-102

September, 2022 1 st Week 1 Sept-3 Sept	Unit I: Vector background and Electric field Introduction of vector and scalar fields Gradient of a scalar and its physical significance
4 Sept, 2022	Sunday
2 nd Week 5 Sept- 10 Sept	Line, Surface and Volume integrals of a vector and their physical significance, Flux of a vector field,
11 Sept, 2022	Sunday
3 rd Week 12 Sept-17 Sept	Divergence and curl of a vector and their physical significance, Gauss's divergence theorem,
18 Sept, 2022	Sunday
4 th Week 19 Sept-24 Sept	Stokes theorem, Derivation of electric field E from potential as gradient
23 Sept,2022 25 Sept, 2022 26 Sept, 2022	Shaheedi Divas/ Haryana War Heroes' Martyrdom Day Sunday Maharana Agrasen Jayanti
5 th Week 27 Sept - 29 Sept	Derivation of Laplace and Poisson equations, Electric flux Gauss's Law
30 Sept, 2022	Talent show

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Lesson Plan for the Odd Semester (September to December, 2022)

Name of the Teacher – Ms. Vandana
Class- B.Sc-First Year (1st SEM)
Subject- Electricity, Magnetism and EMT
Paper- PH-102

October, 2022 1 st Week 1 Oct,2022	Talent Show Holiday
2 Oct, 2022	Sunday
1 st Week 3 Oct - 8 Oct	Mechanical force of charged surface, Energy per unit volume. Revision
5 Oct,2022 9 Oct,2022	Dussehra Sunday
2 nd Week 10 Oct - 15 Oct	Magnetic induction, Magnetic flux, Solenoidal nature of vector field of induction, properties of B (i) $\text{Div} (B)=0$ (ii) $\text{Curl} (B)=\mu J$
13 Oct, 2022 16 Oct,2022	Karwa Chauth Sunday
3 rd Week 17 Oct - 21 Oct	Electronic theory of dia and paramagnetism, Domain theory of ferromagnetism (Langevin's theory)
22 Oct - 26 Oct	Diwali Break
4 th Week 27 Oct - 31 Oct	Cycle of magnetization- hysteresis loop (Energy dissipation, Hysteresis loss and importance of Hysteresis Curve)
30 Oct, 2022	Sunday

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Class- B.Sc-First Year (1st SEM)

Subject- Electricity, Magnetism and EMT

Paper- PH-102

November, 2022 1 st Week 1 Nov, 2022	Haryana Day
1 st Week 2 Nov - 5 Nov	Unit 3: Electromagnetism Maxwell equations and their derivations, Displacement current, Vector and Scalar potentials
6 Nov, 2022	Sunday
2 nd Week 7 Nov – 12 Nov	Boundary conditions at interface between two different media, Propagation of electromagnetic wave (Basic idea, no derivation), Poynting vector and Poynting theorem.
8 Nov, 2022 13 Nov, 2022	Sh. Guru Nanak Dev jayanti Sunday
3 rd Week 14 Nov - 19 Nov	Unit 4: A. C. Analysis A.C. circuit analysis using complex variable with (a) Capacitance and Resistance (CR) (b) Resistance and Inductance (LR)
20 Nov, 2022	Sunday
4 th Week 21 Nov - 26 Nov	(c) Capacitance and Inductance (LC) and (d) Capacitance, Inductance and Resistance (LCR),
27 Nov, 2022	Sunday
5 th Week 28 Nov – 3 Dec	Sessional Exams
4 Dec, 2022	Sunday
2 nd Week 5 Dec - 10 Dec	Quality factor (sharpness of resonance). Series and parallel resonance circuit,
3 rd Week 15 Dec, 2022 Onwards	University Examination

KVA DAV College for Women, Karnal

Lesson Plan for the Odd Semester (September to December, 2022)

Name of the Teacher – Ms. Vandana
Class- B.Sc. Third Year (5th SEM)
Subject- Quantum and Laser Physics
Paper- PH-501

September, 2022 1 st Week 1 Sept-3 Sept	Unit I: Origin quantum physics (Experimental basis) Overview, scale of quantum physics, boundary between classical and quantum phenomena, Photon, Photoelectric effect, Compton effect (theory and result), Frank-Hertz experiment, de-Broglie hypothesis.
4 Sept, 2022	Sunday
2 nd Week 5 Sept- 10 Sept	Davisson and Germer experiment, G.P.Thomson experiment. Phase velocity, group velocity and their relation. Heisenberg's uncertainty principle.
11 Sept, 2022	Sunday
3 rd Week 12 Sept-17 Sept	Time energy and angular momentum, position uncertainty. Uncertainty principle from de Broglie wave. (Wave-particle duality). Gamma Ray Microscope, Electron diffraction from a slit.
18 Sept, 2022	Sunday
4 th Week 19 Sept-24 Sept	Time-independent Schrodinger wave equation, Eigen values, Eigen functions, wave functions and its Significance. Derivation of 1-D time-dependent Schrodinger wave equation (subject to force, free particle).
23 Sept,2022 25 Sept, 2022 26 Sept, 2022	Shaheedi Divas/ Haryana War Heroes' Martyrdom Day Sunday Maharana Agrasen Jayanti
5 th Week 27 Sept - 29 Sept	Orthogonality and Normalization of function, concept of observer and Operator. Expectation values of dynamical quantities, probability current density.
30 Sept, 2022	Talent show

KVA DAV College for Women, Karnal

Lesson Plan for the Odd Semester (September to December, 2022)

Name of the Teacher – Ms. Vandana
Class- B.Sc. Third Year (5th SEM)
Subject- Quantum and Laser Physics
Paper- PH-501

October, 2022 1 st Week 1 Oct,2022	Talent Show Holiday
2 Oct, 2022	Sunday
1 st Week 3 Oct - 8 Oct	Revision and Class Test 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).
5 Oct,2022 9 Oct,2022	Dussehra Sunday
2 nd Week 10 Oct - 15 Oct	ii) One dimensional step potential $E > V_0$ (Reflection and Transmission coefficient) (iii) One dimensional step potential $E < V_0$ (penetration depth calculation).
13 Oct, 2022 16 Oct,2022	Karwa Chauth Sunday
3 rd Week 17 Oct - 21 Oct	(iv) One dimensional potential barrier, $E > V_0$ (Reflection and Transmission coefficient) (v) One-dimensional potential barrier, $E < V_0$ (penetration or tunneling coefficient).
22 Oct - 26 Oct	Diwali Break
4 th Week 27 Oct - 31 Oct	(vi) Solution of Schrodinger equation for harmonic oscillator (quantization of energy, Zero-point energy, wave equation for ground state and excited states).
30 Oct, 2022	Sunday

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Name of the Teacher – Ms. Vandana
Class- B.Sc. Third Year (5th SEM)
Subject- Quantum and Laser Physics
Paper- PH-501

November, 2022 1 st Week 1 Nov, 2022	Haryana Day
1 st Week 2 Nov - 5 Nov	Revision and Class Test Unit III: Laser Physics –I Absorption and emission of radiation, Main features of a laser: Directionality, high intensity, high degree of coherence, spatial and temporal coherence,
6 Nov, 2022	Sunday
2 nd Week 7 Nov – 12 Nov	kinetics of optical absorption ((two and three level rate equation, Fuchbauer landerburg formula).Einstein's coefficients and possibility of amplification, momentum transfer, life time of a level, population inversion: A necessary condition for light amplification, resonance
8 Nov,2022 13 Nov, 2022	Sh. Guru Nanak Dev jayanti Sunday
3 rd Week 14 Nov - 19 Nov	cavity, laser pumping, Threshold condition for laser emission, line broadening mechanism homogeneous and inhomogeneous line broadening (natural, collision and Doppler broadening).
20 Nov, 2022	Sunday
4 th Week 21 Nov - 26 Nov	Revision Unit IV: Laser Physics – II He-Ne laser and RUBY laser (Principle, Construction and working),
27 Nov, 2022	Sunday
5 th Week 28 Nov – 3 Dec	Sessional Exams
4 Dec, 2022	Sunday
2 nd Week 5 Dec - 10 Dec	Optical properties of semiconductor, Semiconductor laser (Principle, Construction and working),Applications of lasers in the field of medicine and industry. Revision
3 rd Week 15 Dec,2022 Onwards	University Examination

KVA DAV College for Women, Karnal

Lesson Plan for the Odd Semester (September to December, 2022)

Name of the Teacher –Ms. Shruti Jain

Class- B.Sc.-Second Year (3rd SEM)

Subject- Computer Programming and Thermodynamics

Paper- PH-301

September, 2022 1 st Week 1 Sept-3 Sept	UNIT-1: Computer Programming Computer organization, binary representation, algorithm development , Flow-chart and their interpretation. FORTRAN preliminaries: integer and floating points arithmetic expression
4 Sept, 2022	Sunday
2 nd Week 5 Sept- 10 Sept	built-in-function, executable and non-executable statement , input and output statements Formats, IF, Do and Go To statements, dimension arrays, statements function and function subprogram
11 Sept, 2022	Sunday
3 rd Week 12 Sept-17 Sept	UNIT –2: Applications of FORTRAN programming Algorithm, Flow Chart and Programming for Print out of natural numbers, Range of the set of given numbers
18 Sept, 2022	Sunday
4 th Week 19 Sept-24 Sept	Ascending and descending order, Mean and standard deviation, Least square fitting of curve, Roots of quadratic equation
23 Sept,2022 25 Sept, 2022 26 Sept, 2022	Shaheedi Divas/ Haryana War Heroes' Martyrdom Day Sunday Maharana Agrasen Jayanti
5 th Week 27 Sept - 29 Sept	Revision and class test Product of two matrices, Numerical integration (Trapezoidal rule and Simpson 1/3 rule) .
30 Sept, 2022	Talent show

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Class- B.Sc.-Second Year (3rd SEM)

Subject- Computer Programming and Thermodynamics

Paper- PH-301

October, 2022 1 st Week 1 Oct,2022	Talent Show Holiday
2 Oct, 2022	Sunday
1 st Week 3 Oct - 8 Oct	UNIT-3: Thermodynamics-I Thermodynamic system and Zeroth law of thermodynamics .first law of thermodynamics and its limitations, reversible and irreversible process.
5 Oct,2022 9 Oct,2022	Dussehra Sunday
2 nd Week 10 Oct - 15 Oct	second law of thermodynamics and its significance ,Carnot theorem , Absolute scale of temperature ,Absolute scale and magnitude of each division on work scale and perfect gas scale ,
13 Oct, 2022 16 Oct,2022	Karwa Chauth Sunday
3 rd Week 17 Oct - 21 Oct	Joule free expansion, joule Thomson effect, joule Thomson experiment , conclusions and explanation, analytical treatment of Joule Thomson effect. Entropy ,calculations of entropy of reversible and irreversible process, T-S diagram, entropy of perfect gas, Nernst heat law
22 Oct - 26 Oct	Diwali Break
4 th Week 27 Oct - 31 Oct	Liquefaction of gases (oxygen , air, hydrogen and helium) , solidification of He below 4K ,cooling by adiabatic demagnetization
30 Oct, 2022	Sunday

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Class- B.Sc.-Second Year (3rd SEM)

Subject- Computer Programming and Thermodynamics

Paper- PH-301

November, 2022 1 st Week 1 Nov, 2022	Haryana Day
1 st Week 2 Nov - 5 Nov	Class Test UNIT-4: Thermodynamics-II Derivation of Clausius-Clapeyron and Clausius latent heat equation and their significance, specific heat of saturated vapours,
6 Nov, 2022	Sunday
2 nd Week 7 Nov – 12 Nov	Phase diagram and triple point of a substance, development of Maxwell thermodynamical relations.
8 Nov,2022 13 Nov, 2022	Sh. Guru Nanak Dev jayanti Sunday
3 rd Week 14 Nov - 19 Nov	Thermodynamical functions: Internal energy (U), Helmholtz function (F), Enthalpy (H), Gibbs function (G) and the relations between them, derivation of Maxwell thermodynamical relations from thermodynamical functions,
20 Nov, 2022	Sunday
4 th Week 21 Nov - 26 Nov	Derivation of Clausius-Clapeyron and Clausius equation, variation of intrinsic energy with volume for (i) perfect gas (ii)Vander wall gas (iii)solids and liquids
27 Nov, 2022	Sunday
5 th Week 28 Nov – 3 Dec	Sessional Exams
4 Dec, 2022	Sunday
2 nd Week 5 Dec - 10 Dec	Derivation of Stefan's law, adiabatic compression and expansion of gas & deduction of theory of Joule Thomson effect.
3 rd Week 15 Dec,2022 Onwards	University Examination

KVA DAV College for Women, Karnal

Lesson Plan for the Odd Semester (September to December, 2022)

Name of the Teacher –Ms. Shruti Jain

Class- B.Sc. Third Year (5th SEM)

Subject- Nuclear Physics

Paper- PH-502

September, 2022 1 st Week 1 Sept-3 Sept	Unit I: Nuclear Structure and Properties of Nuclei Nuclear composition (p-e and p-n hypotheses), Nuclear properties; Nuclear size, spin, parity, Statistics, magnetic dipole moment, quadruple moment (shape concept).
4 Sept, 2022	Sunday
2 nd Week 5 Sept- 10 Sept	Determination of mass by Bain-Bridge, Bain-Bridge and Jordan mass spectrograph. Determination of charge by Mosley Law.
11 Sept, 2022	Sunday
3 rd Week 12 Sept-17 Sept	Determination of size of nuclei by Rutherford Back Scattering. mass and binding energy, systematic of nuclear binding energy, nuclear stability Revision and Class Test
18 Sept, 2022	Sunday
4 th Week 19 Sept-24 Sept	Unit II: Nuclear Radiation decay Processes Alpha-disintegration and its theory. Energetics of alpha-decay, Origin of continuous beta Spectrum (neutrino hypothesis), types of beta-decay and energetics of beta-decay. Nature Of gamma rays, Energetics of gamma rays.
23 Sept, 2022 25 Sept, 2022 26 Sept, 2022	Shaheedi Divas/ Haryana War Heroes' Martyrdom Day Sunday Maharana Agrasen Jayanti
5 th Week 27 Sept - 29 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
30 Sept, 2022	Talent show

KVA DAV College for Women, Karnal

Lesson Plan for the Odd Semester (September to December, 2022)

Name of the Teacher –Ms. Shruti Jain

Class- B.Sc. Third Year (5th SEM)

Subject- Nuclear Physics

Paper- PH-502

October, 2022 1 st Week 1 Oct,2022	Talent Show Holiday
2 Oct, 2022	Sunday
1 st Week 3 Oct - 8 Oct	Interaction of light charged particle (Beta-particle), Energy loss of Beta-particles (ionization), Range of electrons, absorption of beta-particles. Interaction of Gamma Ray;
5 Oct,2022 9 Oct,2022	Dussehra Sunday
2 nd Week 10 Oct - 15 Oct	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.
13 Oct, 2022 16 Oct,2022	Karwa Chauth Sunday
3 rd Week 17 Oct - 21 Oct	Revision and Class Test Unit III: Nuclear Accelerators Linear accelerator, Tandem accelerator, Cyclotron and Betatron accelerators.
22 Oct - 26 Oct	Diwali Break
4 th Week 27 Oct - 31 Oct	Nuclear Radiation Detectors. Gas filled counters; Ionization chamber,
30 Oct, 2022	Sunday

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Class- B.Sc. Third Year (5th SEM)

Subject- Nuclear Physics

Paper- PH-502

November, 2022 1 st Week 1 Nov, 2022	Haryana Day
1 st Week 2 Nov - 5 Nov	proportional counter, G.M. Counter (detailed study), Scintillation counter and semiconductor detector
6 Nov, 2022	Sunday
2 nd Week 7 Nov – 12 Nov	Revision and Class Test Unit IV: Nuclear reactions. Nuclear reactions, Elastic scattering, Inelastic scattering, Nuclear disintegration,
8 Nov,2022 13 Nov, 2022	Sh. Guru Nanak Dev jayanti Sunday
3 rd Week 14 Nov - 19 Nov	Photonuclear reaction, Radiative capture, Direct reaction, Heavy ion reactions and Spallation Reactions.
20 Nov, 2022	Sunday
4 th Week 21 Nov - 26 Nov	Conservation laws, Q-value and reaction threshold. Nuclear Reactors:Nuclear Reactors, General aspects of Reactor Design.
27 Nov, 2022	Sunday
5 th Week 28 Nov – 3 Dec	Sessional Exams
4 Dec, 2022	Sunday
2 nd Week 5 Dec - 10 Dec	Nuclear fission and fusion reactors,(Principle, construction, working and use). Revision
3 rd Week 15 Dec,2022 Onwards	University Examination